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DIVISION D—ENERGY AND WATER DEVELOPMENT AND RELATED AGENCIES
APPROPRIATIONS ACT, 2021

The following statement to the House of Representatives and the Senate is submitted in explanation of the agreed upon Act making appropriations for energy and water development for the fiscal year ending September 30, 2021, and for other purposes.

The explanatory statement accompanying this division is approved and indicates congressional intent. Unless otherwise noted, the language set forth in House Report 116-449 carries the same weight as the language included in this explanatory statement and should be complied with unless specifically addressed to the contrary in this explanatory statement. While some language is repeated for emphasis, it is not intended to negate the language referred to above unless expressly provided herein. Additionally, where this explanatory statement states that the “agreement only includes” or “the following is the only” direction, any direction included in the House report on that matter shall be considered as replaced with the direction provided within this explanatory statement. In cases where the House has directed the submission of a report, such report is to be submitted to the Committees on Appropriations of both Houses of Congress. House reporting requirements with deadlines prior to or within 15 days of the enactment of this Act shall be submitted not later than 60 days after enactment of this Act. All other reporting deadlines not changed by this explanatory statement are to be met.

Funds for the individual programs and activities within the accounts in this Act are displayed in the detailed table at the end of the explanatory statement for this Act. Funding levels that are not displayed in the detailed table are identified in this explanatory statement.

In fiscal year 2021, for purposes of the Balanced Budget and Emergency Deficit Control Act of 1985 (Public Law 99-177), the following information provides the definition of the term “program, project, or activity” for departments and agencies under the jurisdiction of the Energy and Water Development and Related Agencies Appropriations Act. 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, 2021 and the explanatory statement accompanying this Act.

The agreement reiterates House direction regarding the Salton Sea, California.

Federal Law Enforcement.—The agreement notes that the explanatory statement accompanying the Commerce, Justice, Science, and Related Agencies Appropriations Act, 2021 directs the Attorney General to ensure implementation of evidence-based training programs on de-escalation and the use-of-force, as well as on police-community relations, that are broadly applicable and scalable to all federal law enforcement agencies. The agreement further notes that several agencies funded by this Act employ federal law enforcement officers and are Federal Law Enforcement Training Centers partner organizations. The agreement directs such agencies to consult with the Attorney General regarding the implementation of these programs for their law enforcement officers. The agreement further directs such agencies to brief the Committees on Appropriations of both Houses of Congress on their efforts relating to such implementation

not later than 90 days after consultation with the Attorney General. In addition, the agreement directs such agencies, to the extent they are not already participating, to consult with the Attorney General and the Director of the FBI regarding participation in the National Use-of-Force Data Collection. The agreement further directs such agencies to brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on their current efforts to so participate.

No specific funds for rejecting any application for a grant available under funds appropriated by this Act because of the use of the term “global warming”, the term “climate change”, or the term “sea level rise” in the application are included for any agency funded in this Act.

TITLE I—CORPS OF ENGINEERS—CIVIL
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS—CIVIL

The summary tables included in this title set forth the dispositions with respect to the individual appropriations, projects, and activities of the Corps of Engineers (Corps). Additional items of this Act are discussed below.

Advanced Funds Agreements.—Under the advanced funds authority, the Corps is authorized to accept, from a state or political subdivision thereof, all funds covering both the federal and non-federal share of total project costs required to construct an authorized water resources development project or separable element thereof. Based on the non-federal sponsor's commitment to provide all funds required to construct a project, or separable element thereof, the Corps may undertake construction of the project prior to a new start determination related to federal funding for the project. In light of a non-federal sponsor's commitment to provide all funding required for construction of the project, or separable element thereof, the agreement directs that federal funds should not be provided for such construction. Instead, for such projects, any federal funding may be provided only after completion of construction, as repayment of the federal share of such construction, from funding provided for reimbursements or repayments, and would be subject to a new start designation. This direction is not intended to apply to any project with an advanced funds project partnership agreement that is currently under construction.

Asian Carp.—The Corps is currently engaged in a multipronged effort to stop Asian carp from reaching the Great Lakes. The long-term solution involves the Great Lakes and Mississippi River Interbasin Study [GLMRIS], which was authorized by Congress under Section 3061(d) of the Water Resources Development Act of 2007 (Public Law 110–114). Until that project is operational, a near-term solution is needed to bring the Chicago Sanitary Ship Canal (CSSC) Fish Barrier online to its full designed capacity. Per the GLMRIS, the Brandon Road Lock and Dam in Joliet, Illinois, is critical to keeping Asian carp out of the Chicago Area Waterways System, which is the only continuous connection between the Great Lakes and Mississippi River basins. These efforts are essential to protecting the Great Lakes ecosystem and the \$7,000,000,000 recreational fishing and \$16,000,000,000 boating industries.

Last year, the Corps sent Congress an approved Chief's Report, which included a positive recommendation for a plan to build a comprehensive suite of measures to counter Asian carp at the Brandon Road Lock and Dam, a critical choke point to halt the spread of invasive species in the Illinois River. In addition, the existing electric dispersal barrier in the CSSC is presently the only structural measure to deter Asian carp from reaching Lake Michigan.

As the Corps prioritizes projects, it shall consider critical projects to prevent the spread of invasive species. The Corps is reminded that the GLMRIS Brandon Road project is eligible to compete for additional funding within the Investigations account for Pre-construction Engineering and Design (PED). The agreement notes that the Corps is finalizing an agreement with the State of Illinois to be the lead non-

federal sponsor of the project and that the states of Illinois and Michigan have provided funding to allow PED to move forward. The Corps shall expeditiously work with the non-federal sponsor to execute a design agreement.

The agreement also notes that the Corps has invested significant resources in building and maintaining a permanent electric barrier on the Chicago waterway system, the CSSC Fish Barrier. There is concern that the administration has not allocated funds to enable the Corps and the U.S. Coast Guard to complete safety assessments necessary to ensure that upgrades to the electric barrier are operational. The Corps is reminded that this project may compete for additional funding needed to complete the second electrode array, which would improve the effectiveness of the barrier system and provide operational redundancy. A complete CSSC Fish Barrier will ensure that the barrier can operate at its designed capacity.

The Corps and other federal and state agencies are conducting ongoing research on additional potential Asian carp solutions. The Corps shall continue to collaborate at levels commensurate with previous years 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, including identifying navigation protocols that 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. The Corps is further directed to implement navigation protocols shown to be effective at reducing the risk of entrainment without jeopardizing the safety of vessels and crews.

The Corps is directed to provide to the Committees on Appropriations of both Houses of Congress starting not later than 30 days after enactment of this Act quarterly updates on the progress and status of efforts to prevent the further spread of Asian carp, including the status of completing the upgrades to and testing of the CSSC Fish Barrier; of the design agreement; of implementing the Brandon Road Recommended Plan; the location and density of carp populations; the use of emergency procedures previously authorized by the Congress; and the development, consideration, and implementation of new technological and structural countermeasures, including beneficial navigational protocols.

Budget Structure Changes.—The fiscal year 2021 budget request for the Corps proposed numerous structural changes, including the creation of two new accounts (Harbor Maintenance Trust Fund and Inland Waterways Trust Fund); the shifting of various studies and projects between accounts and business lines; and the consolidation of certain remaining items. The agreement rejects all such proposed changes and instead funds all activities in the accounts in which funding has traditionally been provided. Unless expressly noted, all projects and studies remain at the levels proposed in the budget request but may be funded in different accounts. In particular:

- Projects proposed for funding in the Harbor Maintenance Trust Fund account in the budget request are funded in the Construction, Mississippi River and Tributaries, and Operation and Maintenance accounts, as appropriate;

- Dam safety modification studies, proposed in the Investigations account in the budget request, are funded in the Dam Safety and Seepage/Stability Correction Program within the Construction account;
- Sand mitigation projects, proposed in the Harbor Maintenance Trust Fund account in the budget request, are funded in the Construction account;
- National Shoreline Management Study and Interagency and International Support activities are not consolidated within the Coordination with Other Water Resource Agencies remaining item in Investigations;
- Disposition studies will continue to be funded under the remaining item Disposition of Completed Projects in the Investigations account;
- Tribal Partnership Projects will continue to be funded under the Tribal Partnership Program remaining item in the Construction account, and these amounts may be used to cover necessary administrative expenses prior to agreement execution;
- Access to Water Data, Coastal Field Data Collection, Hydrologic Studies, Remote Sensing/Geographic Information System Support, Scientific and Technical Information Centers, and Tri-Service CADD/GIS Technology Center are not consolidated under the new proposed Technology Application Program in Investigations;
- Inspection of Completed Works, Project Condition Surveys, Scheduling of Reservoir Operations and Surveillance of Northern Boundary Waters will continue to be funded under States instead of consolidated into a national program as requested in the Operation and Maintenance account;
- Inspection of Completed Works will continue to be funded under the individual States instead of consolidated into a national program as requested in the Mississippi River and Tributaries;
- Dam Safety and Seepage/Stability Correction Program management costs, proposed in the Expenses account in the budget request, are funded in the program within the Construction account.

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 budget proposal shall be accompanied by a display of the funding request in the traditional budget structure.

Columbia River Treaty.— House direction regarding the Columbia River Treaty is not included.

Inland Waterways System.—The only direction in the agreement is included in the Construction account.

Regional Dredge Demonstration Program.—The Corps shall continue to provide to the Committees on Appropriations of both Houses of Congress quarterly briefings on the status of the demonstration program, including regular updates on the effectiveness of the program, savings realized,

and lessons learned. The Corps is encouraged to apply effective approaches and lessons learned under this program to other areas such as the Atlantic region that could also achieve cost and schedule savings.

Reporting Requirement.—The Corps shall provide to the Committees on Appropriations of both Houses of Congress a quarterly report that shall include the total budget authority and unobligated balances by year for each program, project, or activity, including any prior year appropriations. The Assistant Secretary of the Army (Civil Works) shall provide to the Committees on Appropriations of both Houses of Congress a quarterly report that includes the total budget authority and unobligated balances by year for each activity funded in the Office of the Assistant Secretary of the Army (Civil Works) account, including any prior year appropriations.

Unmanned Aerial Systems.—As follow-up to the reporting requirement found in the fiscal year 2019 Senate Report, the Corps shall brief the Committees on Appropriations of both Houses of Congress about its findings and subsequent actions as it relates to foreign-made small Unmanned Aerial Systems (sUAS). The briefing shall occur not later than 90 days after enactment of this Act and shall include the following: the total number of sUAS in inventory and operation, including a breakdown of those sUAS manufactured in or with critical components produced in the People’s Republic of China; and the plan to source additional sUAS from American manufacturers.

ADDITIONAL FUNDING

The agreement includes funding above 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 bill contains a provision requiring the Corps to allocate funds in accordance with only the direction in this agreement. In lieu of all House and Senate direction—under any heading—regarding additional funding, new starts, and the fiscal year 2021 work plan, the Corps shall follow the direction included in this explanatory statement.

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 evaluation for being “inconsistent with administration policy.” 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.

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. 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 and Public Law 116–20 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 calendar year 2021; 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. 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 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 the study or project's remaining cost to complete (excluding Operation and Maintenance); 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 calendar year 2021 and the specific reasons each study or project was considered as being less competitive for an allocation of funds.

New Starts.—The agreement includes nine new starts for investigations (including one new study start in the Mississippi River and Tributaries account) and seven new starts in the Construction and Mississippi River and Tributaries accounts to be distributed across the authorized mission areas of the Corps.

Of the new starts in the Investigations account three shall be for flood and storm damage reductions studies, of which one shall be for a coastal storm damage reduction study; two shall be for navigation studies; two shall be for environmental restoration studies; and one shall be for a multi-purpose watershed study to assess coastal resiliency. Of the new construction starts, three shall be for navigation projects, one of which shall be for an inland waterways lock and dam modernization project, and one of which shall be for a small or medium-sized harbor; one shall be for an environmental restoration project; one shall be for an environmental restoration project or a multi-purpose project; one shall be for a flood and storm damage reduction project; and one shall be for a flood and storm damage reduction project or a multi-purpose project. No funding shall be used to initiate new programs, projects, or activities in the Operation and Maintenance account. The Corps is reminded that public-private partnership (P3) pilot projects are eligible to compete for new starts in Construction. The Corps shall only allocate up to \$500,000 for feasibility studies that are being funded in their first year.

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 agreement 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 calendar year 2021 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 seven 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 agreement reiterates and clarifies previous congressional direction as follows. Neither study nor construction activities related to individual projects authorized under section 1037 of the Water Resources Reform and Development Act (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 PED. The initiation of construction of an individually authorized project funded within a programmatic line item may not require a new start designation provided that some amount of construction funding under such programmatic line item was appropriated and expended during the previous fiscal year. 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. The Corps is reminded that resummptions are just that—resumption of previously-initiated studies or projects and, as such, do not require new start designations.

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 mission area 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. Within the flood and storm damage reduction mission, the Corps is urged to strive for an appropriate balance between inland and coastal projects.

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, 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 December 31, 2021, 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.

INVESTIGATIONS

The agreement includes \$153,000,000 for Investigations. The agreement includes legislative language regarding parameters for new study starts.

The allocation for projects and activities within the Investigations account is shown in the following table:

[INSERT TABLE]

CORPS OF ENGINEERS - INVESTIGATIONS
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
ALASKA		
ELIM SUBSISTENCE HARBOR, AK	110	--- ~
ARIZONA		
BIRD SPRINGS WATERSHED ASSESSMENT, AZ	50	--- ~
ARKANSAS		
THREE RIVERS, AR	3,292	3,292
CALIFORNIA		
CARBON CANYON DAM, SANTA ANA RIVER BASIN, CA	1,500	--- ^
CLEAR CREEK ECOSYSTEM RESTORATION, CA	100	--- ~
LOS ANGELES COUNTY DRAINAGE AREA (CHANNELS), CA	715	--- ~
PRADO DAM, SANTA ANA RIVER BASIN, CA	2,400	--- ^
SALINAS RESERVOIR (SANTA MARGARITA LAKE), CA	79	--- ~
SOUTH SAN FRANCISCO BAY SHORELINE, CA (Phase II)	400	400
SUISUN BAY CHANNEL (SLOUGH), CA	150	--- ~
WEST SACRAMENTO, CA	2,028	2,028
COLORADO		
JOHN MARTIN RESERVOIR, CO	800	--- ^
GEORGIA		
SAVANNAH RIVER BELOW AUGUSTA, GA	150	--- ~
IDAHO		
SWEETWATER CREEK RESTORATION, ID	100	--- ~
ILLINOIS		
INTERBASIN CONTROL OF GREAT LAKES-MISSISSIPPI RIVER AQUATIC NUISANCE SPECIES, IL, IN, OH and WI	50	50
PEORIA SMALL BOAT HARBOR, IL	110	--- ~
KANSAS		
SOLDIER CREEK WATERSHED, KS	45	--- ~
LOUISIANA		
BAYOU COCODERIE AND TRIBUTARIES, LA	500	--- ~

CORPS OF ENGINEERS - INVESTIGATIONS
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
MICHIGAN		
BAY MILLS SHORELINE EROSION, MI	45	--- ?
MINNESOTA		
LOWER ST. ANTHONY FALLS, MISSISSIPPI RIVER, MN	186	--- ?
NEW MEXICO		
PUEBLOS OF ZIA WATERSHED ASSESSMENT, NM	50	--- ?
NORTH CAROLINA		
CAPE FEAR LOCKS AND DAMS 1-3, NC	110	--- ?
NORTH DAKOTA		
GARRISON DAM, LAKE SAKAKAWEA, ND	2,000	--- ^
OHIO		
BOLIVAR DAM (MAGNOLIA LEVEE), OH	3,000	--- ^
OKLAHOMA		
KEYSTONE LAKE, OK	2,700	--- ^
OREGON		
BONNEVILLE LOCK AND DAM, OR and WA	1,500	--- ^
COLUMBIA RIVER TREATY 2024 IMPLEMENTATION, OR	10,260	--- ^
COUGAR LAKE, OR	2,672	--- ^
FOSTER LAKE, OR	2,000	--- ^
GREEN PETER LAKE, OR	2,000	--- ^
HILLS CREEK LAKE, OR	2,400	--- ^
LOOKOUT POINT LAKE, OR	2,400	--- ^
TEXAS		
BENBROOK LAKE, TX	1,500	--- ^
PROCTOR LAKE, TX	3,000	--- ^
VERMONT		
NORTH SPRINGFIELD LAKE, VT	1,500	--- ^
WASHINGTON		
PUGET SOUND NEARSHORE MARINE HABITAT RESTORATION, WA (DUCKABUSH RIVER ESTUARY)	2,563	2,563

CORPS OF ENGINEERS - INVESTIGATIONS
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
SUBTOTAL, PROJECTS LISTED UNDER STATES	52,465	8,333
REMAINING ITEMS		
ADDITIONAL FUNDING		
FLOOD AND STORM DAMAGE REDUCTION	---	10,000
FLOOD CONTROL	---	4,000
SHORE PROTECTION	---	5,000
NAVIGATION	---	8,000
COASTAL AND DEEP-DRAFT	---	6,000
INLAND	---	8,000
OTHER AUTHORIZED PROJECT PURPOSES	---	6,000
ENVIRONMENTAL RESTORATION OR COMPLIANCE	---	17,000
ACCESS TO WATER DATA	---	360 *
COASTAL FIELD DATA COLLECTION	---	2,000 *
COORDINATION WITH OTHER WATER RESOURCE AGENCIES	350	600 *
DISPOSITION OF COMPLETED PROJECTS	---	2,000
ENVIRONMENTAL DATA STUDIES	80	80
FERC LICENSING	100	100
FLOOD DAMAGE DATA	280	280
FLOOD PLAIN MANAGEMENT SERVICES	15,000	15,000
HYDROLOGIC STUDIES	---	750 *
INTERNATIONAL WATER STUDIES	125	125
INTERAGENCY AND INTERNATIONAL SUPPORT	---	100 *
INTERAGENCY WATER RESOURCE DEVELOPMENT	100	100
INVENTORY OF DAMS	400	400
NATIONAL FLOOD RISK MANAGEMENT PROGRAM	5,000	5,000
NATIONAL SHORELINE MANAGEMENT STUDY	---	1,820 *
PLANNING ASSISTANCE TO STATES	5,000	10,000
PLANNING SUPPORT PROGRAM	3,500	3,500
PRECIPITATION STUDIES	200	200
REMOTE SENSING/GEOGRAPHIC INFORMATION SYSTEM SUPPORT	---	575 *
RESEARCH AND DEVELOPMENT	15,000	30,791
SCIENTIFIC AND TECHNICAL INFORMATION CENTERS	---	50 *
SPECIAL INVESTIGATIONS	1,000	1,000
STREAM GAGING	550	550
TECHNOLOGY APPLICATION PROGRAMS	2,485	---
TRANSPORTATION SYSTEMS	1,000	1,000
TRI-SERVICE CADD/GIS TECHNOLOGY CENTER	---	250 *
TRIBAL PARTNERSHIP PROGRAM	---	4,036
SUBTOTAL, REMAINING ITEMS	50,170	144,667
TOTAL, INVESTIGATIONS	102,635	153,000

^Funded in a remaining item in another account.

~Funded in remaining items.

**Funded in a different remaining item within this account.*

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.

Of the additional funding recommended in this account for environmental restoration or compliance, the Corps shall allocate not less than \$6,500,000 for ecosystem restoration projects in the PED phase that have been funded for PED within the last three years and provide benefits to multiple states.

Of the additional funding provided in this account for environmental restoration or compliance and other authorized project purposes, the Corps shall allocate not less than \$2,340,000 for ecosystem restoration projects that are modifications to flood protection project authorizations to address degraded conditions due to prior flood protection work.

Of the additional funding recommended in this account for shore protection, the Corps shall allocate not less than \$1,500,000 for the PED phase of beach re-nourishment projects that have been authorized by Congress for construction.

Of the additional funding provided in this account for flood and storm damage reduction, the Corps shall allocate not less than \$1,500,000 for PED to projects that are located in economically disadvantaged communities where the per capita income is less than half of the state and national averages and that have previously experienced loss of life due to flooding.

Of the additional funding recommended in this account, the Corps shall allocate not less than \$1,100,000 to PED activities for ecosystem restoration projects that also provide additional flood storage capacity by restoring the natural habitat.

Of the additional funding recommended in this account, not less than \$3,500,000 shall be to continue progress on studies that address coastal resilience identified in the North Atlantic Coast Comprehensive Study.

Of the additional funding recommended in this account, not less than \$809,000 shall be to update project economics on the inland waterways system.

Of the additional funding recommended in this account, not less than \$500,000 shall be allocated to studies that would re-evaluate options to address eroding shorelines.

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; projects located in areas that have suffered recent natural disasters; are for projects that protect life and property; projects to restore floodplain and aquatic habitat through cost-effective and tested means; studies with a primary focus on flood risk management within a basin that experiences recurring flash flooding; or 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 and that no new start or new investment decision shall be required when moving from feasibility

to PED. The Corps is reminded that activities related to innovative materials, as required under section 1208 of AWIA 2018 are eligible for funding under the Research and Development remaining item. The Corps is encouraged to consider studies that investigate the impacts of ship channels on beach nourishment projects.

Arkansas River Flooding.—The Corps is directed to evaluate all of its authorities for assessing whether the purchase of additional flood easements along the Arkansas River in northeast Oklahoma and western Arkansas would significantly reduce the severity and duration of flood events. The Corps is directed to brief the Committee not later than 60 days after enactment of this Act on its findings. The agreement further directs the Corps to work with the Federal Emergency Management Agency on opportunities to implement such measures.

Bubbly Creek.—There is disappointment that negotiations between the Corps, the Environmental Protection Agency, and the Department of Justice over remaining liability concerns have yet to produce an outcome that will allow the project to move forward. The parties are urged to expedite efforts to reach a resolution and the agreement reiterates House direction regarding a briefing on these negotiations.

Central & South Florida Project.—The Corps is urged to maintain continued attention to the need of the South Florida economy and environment for a functioning flood control system.

Chacon Creek, Texas.—The Corps is reminded that flood mitigation projects like Chacon Creek in Laredo, Texas, are eligible to compete for additional funding provided within this account.

Chicago River.—The Corps is encouraged to work with the City of Chicago River Ecology and Governance Task Force toward a comprehensive ecosystem restoration solution for the restoration of the Chicago River.

Chicago Shoreline.—Concerns persist that lake levels in the Great Lakes are predicted to surpass record high levels. The Corps is encouraged to reevaluate the conclusions of the original feasibility report to assess federal interest in providing additional coastal protection along the Chicago shoreline.

Coastal Field Data Collection.—The agreement includes an additional \$1,000,000 above the budget request amount of \$1,000,000 to continue data collection and research on the impact of extreme storms in coastal regions. The Corps is encouraged to include increased funding in future budget submissions.

Disposition of Completed Projects.—The Corps is directed to provide to the Committee copies of disposition studies upon completion.

Flood Policy in Urban Areas.—There is concern about the delay in receiving the Flood Policy Within Urban Areas report as required by section 1211 of America's Water Infrastructure Act of 2018 (Public Law 115–270). The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than 45 days after enactment of this Act on the findings of this report.

Great Lakes Coastal Resiliency Study.—The Corps is reminded that the Great Lakes Coastal Resiliency study is eligible to compete for a new start as provided in this Act.

Great Lakes Mississippi River Interbasin Study [GLMRIS].—The budget request does not reflect the urgency of moving forward as quickly as possible on interim steps to prevent the upstream movement of Asian carp through the Illinois River toward Lake Michigan.

Hartford and East Hartford, Connecticut Levee Systems.— The Corps is encouraged to consider the urgency of this effort when allocating the additional funding recommended in this account.

Kanawha River Basin Study.—Severe flooding in the Kanawha River Basin continues to be an issue, with a recent flood event in June 2016 claiming 23 lives and damaging over 4,600 homes. A 2017 report approved by the Corps recommended a comprehensive flood risk management study to address residual risk and flooding in areas not protected by current Corps projects, where there are significant life and safety concerns. The Corps is reminded this study is eligible to compete for additional funding provided in this account and the Corps is encouraged to include appropriate funding in future budget submissions.

Kenai Bluffs Erosion.—The Corps is encouraged to move as expeditiously as possible to PED and urged to include appropriate funding in future budget submissions.

Laurel, Maryland.—The Corps is encouraged to continue its partnership with the city of Laurel, Maryland to provide assistance in updating tools needed to develop flood risk reduction alternatives to assist local communities in flood resiliency efforts along the Patuxent River.

Lower Missouri River Basin.—In the Spring of 2019, the Missouri River Basin experienced record flooding as result of saturated soils and high water levels from unprecedented rainfall and snowmelt runoff. This resulted in billions of dollars in damage to homes, businesses, and levees along the river. In response to these events, Congress provided resources and the Corps included in its work plan a new start for a flood risk management study, the Lower Missouri Basin Flood Risk and Resiliency Study, IA, KS, NE and MO. Flooding in the Lower Missouri River Basin continues to increase, proving the need for a more comprehensive, system-wide plan for long-term flood risk reduction. The Corps is urged to work with pertinent state and federal agencies and stakeholders to identify authorities, resources, and opportunities available to support such an effort. The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than 60 day after enactment of this Act on recommendations for development of a comprehensive, system-wide plan for the Lower Missouri Basin. This briefing shall include what resources and additional authorities would be needed; the challenges and limitations, including policy and funding concerns; and an overview of the steps that would be necessary to complete the comprehensive system plan.

McClellan-Kerr Arkansas River Navigation System [MKARNS].—There is understanding that this project has capability in fiscal year 2021 to update the economic impacts of the project. The Corps is reminded that this project can compete for additional funding provided in this account and encouraged to include appropriate funding in future budget submissions.

McMicken Dam, Arizona.—The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on how it considers the value of national security in prioritizing and formulating studies and projects.

National Historic Landmarks.—The Corps is encouraged to expedite the completion of flood and storm damage reduction studies related to preserving National Historic Landmarks that are immediately threatened by shoreline erosion, such as the bridge in Selma, Alabama.

Natural Infrastructure Options.—The Corps is directed to engage with state and local governments and non-profit organizations, where appropriate, on projects in diverse geographic areas that incorporate natural infrastructure, and is encouraged to incorporate such features into projects during the project formulation phase, where appropriate and effective.

Nome, Alaska.—The Corps is reminded that projects such as the Port of Nome, Alaska, are eligible to compete for additional funding provided in this account.

North Atlantic Coast Focus Area Studies.—There is significant disappointment that the administration discontinued funding for several ongoing studies to address flood damage and loss of life along the Atlantic coastline. In the wake of Hurricane Sandy, the North Atlantic Coast Comprehensive Study was authorized to address coastal storm and flood risk to vulnerable populations, property, ecosystems, and infrastructure, including the Baltimore Coastal Storm Risk Management, the Nassau County Back Bays, the New Jersey Back Bays, the New York-New Jersey Harbor and Tributaries, the Delaware Inland Bays, Delaware Bay Coast focus area studies. Completion of these focus area studies, is critical to determining the best course of action to mitigate future damage. The Corps is reminded that these studies are eligible to compete for additional funding provided in this account, and the Corps is encouraged to include appropriate funding for these studies in future budget submissions.

North Atlantic Division Report on Hurricane Barriers and Harbors of Refuge.—The Corps is directed to brief Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on the status and path forward for the North Atlantic Division report on hurricane barriers and harbors of refuge mandated under Section 1218 of America's Water Infrastructure Act of 2018 (Public Law 115–270).

Planning Assistance to States.—The Corps is reminded that this program encompasses many types of studies and technical assistance dealing with a number of water resource issues, including but not limited to, sediment management, state water planning, water distribution, and water supply evaluations.

Planning Assistance to States, Vulnerable Coastal Communities.—The Corps is encouraged to continue building capacity to provide this assistance to vulnerable coastal communities, including tribal communities.

Puget Sound Nearshore Study.—The Corps is encouraged to proceed with the tiered implementation strategy using all existing authorities as outlined in the Puget Sound Nearshore Ecosystem Restoration Project Feasibility Study, Completion Strategy Guidance dated June 2015. The Corps is directed to recognize the Puget Sound Nearshore Study as the feasibility component for the purposes of section 544 of the Water Resources Development Act of 2000 (Public Law 106–541) and is reminded that this study is eligible to compete for additional funding provided in this account.

Research and Development.—The Corps is encouraged to engage in monitored field trials of coastal restoration optimized for blue carbon CO₂ sequestration. The agreement notes that certain machine learning and artificial intelligence initiatives are underway, including the Numerical Modeling Modernization and Data25 initiatives, and urges the Corps to continue this work. Lastly, the Corps is encouraged to collaborate with university partners to improve the capabilities for improving the integrity and performance of the nation’s levee systems.

Research and Development, Biopolymers.—The agreement notes the importance of earthen infrastructure to support safety, flood control, and water distribution systems (dams and levees). The agreement notes the value of research into the use of biopolymers to rehabilitate these deteriorating structures, reduce the costs of rehabilitating and maintaining these structures, and increase resiliency of these structures against potential threats. The agreement includes \$4,000,000 for these activities.

Research and Development, Freshwater Intrusion.—The Committee recognizes the need to develop tools to assess, forecast, and proactively manage the hydrodynamic and environmental impacts of large-scale freshwater intrusion into the Mississippi Sound and surrounding waters. These consistent freshwater intrusions have been detrimental to the Mississippi Sound and the U.S. blue economy. The Corps is encouraged to partner with academia with expertise in coastal processes and ocean and hydrodynamic modeling to develop these tools.

Research and Development, Future Work.—The agreement recognizes the value of research topics currently being addressed by the Army Engineer Research and Development Center [ERDC]. ERDC and the Corps have identified a series of critical research categories that will advance the efficient implementation of the Civil Works mission and provide value to the nation, including by leveraging the expertise of universities through partnerships. ERDC is directed to brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on future research needs, including multi-year funding requirements, and potential university partnerships related to strategic goals to advance the Civil Works mission. Potential specific topics include, but are not limited to: increasing resilience through natural infrastructure on drought-prone lands; the use of biopolymers to improve the integrity of earthen structures; forecasting coastal processes to protect infrastructure; developing capabilities to improve the structural integrity of levees and dams; the opportunities for polymer composites to increase the durability of infrastructure; and the impacts of freshwater intrusion into estuaries.

Research and Development, Innovative Technologies for Resilient Infrastructure.—There is recognition that research is needed to test and refine use of rapid, repeatable, and remote methods for long-term monitoring of critical water infrastructure. The Corps is encouraged to partner with academia to research and manage emerging threats to attain resilient flood control structures.

Research and Development, Modeling.—The recommendation provides \$2,000,000 to support research into predictive models and field-based research into geochemical, geophysical, and sedimentological analysis and modeling of diverse field sites on contemporary and historic time frames. It is understood that with continued funding, this effort will be completed in four years.

Research and Development, Oyster Reefs.—The agreement provides \$2,220,000 for the Corps to partner with research universities to conduct oyster reef restoration research and understand that with continued funding this effort will be completed in fiscal year 2022.

Research and Development—Urban Flood Damage Reduction and Stream Restoration in Arid Regions.—The agreement includes an additional \$3,000,000 in the Research and Development remaining item for the Corps' Flood and Coastal Systems R&D Program for Post-Wildfire and Debris Flow Urban Flood Damage Reduction in Arid Regions. The tools and technologies developed under this program should also be applicable to other parts of the country. The Corps is encouraged to collaborate with research partners on these efforts. There is understanding that with continued funding this effort will be completed in four years.

Salton Sea, California.— The Corps is reminded that this study is eligible to compete for a new start as provided in this Act.

San Diego County, California (Formerly Encinitas and Solana Beach, California).—In the project vicinity, eight people have lost their lives of the past several years due to multiple bluff collapses caused by coastal erosion. Therefore, the Corps is reminded that this project (formerly known as the Encinitas and Solana Beach Coastal Storm Damage Reduction Project) is eligible to compete for additional funding provided in this account.

South Atlantic Coastal Study.—The Corps shall consult with industry groups, academia, and non-governmental organizations who can provide specialized expertise and coordinate appropriate attention and interest in the study's design and implementation from relevant stakeholders, including coastal state agencies, local officials, and private coastal scientists and engineers. The Corps is urged to ensure due consideration of near-shore marine habitat with potential impacts of coastal flooding and inundation within the scope of this study and where possible, ensure the full interoperability of modeling work and data analysis conducted for this study and other inland flood control and aquatic ecosystem restoration projects bordering the study area.

Upper Des Plaines River and Tributaries Project, Illinois and Wisconsin.—The Corps is urged to cooperate with the non-federal sponsor as it prepares to advance work on a number of flood features under section 204 of the Water Resources Development Act of 1986.

There is also awareness of local concerns about the impact the proposed Foxconn project in Wisconsin may have on flooding in communities downriver in Illinois surrounding the Des Plaines River. As the Corps re-evaluates the project, it is encouraged to take the impacts of the proposed Foxconn project into consideration.

Upper Mississippi River-Illinois Waterway System.—There is recognition of the importance of advancing the Navigation and Ecosystem Sustainability Program (NESP), as authorized in Title VIII of the Water Resources and Development Act of 2007 (Public Law 110–114), for the Upper Mississippi region and the nation’s economy. Congress has already appropriated more than \$66,000,000 in PED funding for this program. The Corps is reminded that this project is eligible to compete for additional funding provided in this account.

Upper Missouri River Basin Flood and Drought Monitoring.—To prevent additional unnecessary delays to the implementation of this program, a new remaining item in the O&M account titled “Soil Moisture and Snowpack Monitoring” has been created for these activities. The Corps is directed to use the funding provided in fiscal year 2020 in the Hydrologic Studies remaining item along with the additional funding provided in the new remaining item in the Operation and Maintenance account to carry out the activities authorized in section 4003(a) of the Water Resources Reform and Development Act of 2014.

Upper Ohio Navigation System.—There is understanding of the importance of the Upper Ohio Navigation system and of modernizing its facilities. The Corps is encouraged to include continued PED work in future budget requests.

Watertown, South Dakota.—The Corps is reminded that this study is eligible to compete for additional funding provided in this account.

Water Quality and Salinity Impacts on Oyster Reefs.—The Corps is encouraged, 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.

Willamette River.—The Corps is directed to prioritize environmental restoration for urban area floodplain and aquatic habitat through cost effective means, such as fish passage and culvert replacement. These efforts should benefit all Columbia River and Willamette River salmon and steelhead listed under the Endangered Species Act (ESA) and Pacific Lamprey, which is a culturally, and ecologically important species and treaty-reserved resource to the Pacific Northwest Tribal Nations.

CONSTRUCTION

The agreement includes \$2,692,645,000 for Construction. The agreement includes legislative language regarding the Inland Waterways Trust Fund.

The allocation for projects and activities within the Construction account is shown in the following table:

[INSERT TABLE]

CORPS OF ENGINEERS - CONSTRUCTION
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
CALIFORNIA		
AMERICAN RIVER COMMON FEATURES, NATOMAS BASIN, CA	131,500	131,500
WHITTIER NARROWS, CA (DAM SAFETY)	384,900	192,500
FLORIDA		
JACKSONVILLE HARBOR, FL	35,457	35,457
SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) PROGRAM, FL	250,000	250,000
GEORGIA		
SAVANNAH HARBOR EXPANSION, GA	93,600	93,600
ILLINOIS		
CALUMET HARBOR AND RIVER, IL and IN	---	16,000 *
MELVIN PRICE LOCK AND DAM (DEFICIENCY CORRECTION), IL AND MO	12,211	12,211
UPPER MISSISSIPPI RIVER RESTORATION, IL, IA, MN, MO and WI	33,170	33,170
IOWA		
MISSOURI RIVER FISH AND WILDLIFE RECOVERY, IA, KS, MO, MT, NE, ND and SD	9,700	9,700
KENTUCKY		
ROUGH RIVER LAKE, KY	8,750	8,750
LOUISIANA		
CALCASIEU RIVER AND PASS, LA	---	9,000 *
MISSISSIPPI RIVER SHIP CHANNEL GULF TO BATON ROUGE, LA	45,707	45,707
MARYLAND		
ASSATEAGUE ISLAND, MD	---	600 *
POPLAR ISLAND, MD	---	14,500 *
MASSACHUSETTS		
BOSTON HARBOR, MA	68,433	68,433
MICHIGAN		
SAULT STE. MARIE (REPLACEMENT LOCK), MI	123,220	123,220
NEW JERSEY		
CAPE MAY INLET TO LOWER TOWNSHIP, NJ	---	12,500 *

CORPS OF ENGINEERS - CONSTRUCTION
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
LOWER CAPE MAY MEADOWS, CAPE MAY POINT, NJ	---	400 *
RARITAN RIVER BASIN, GREEN BROOK SUB-BASIN, NJ	157,460	30,900
NORTH CAROLINA		
WILMINGTON HARBOR, NC	---	6,600 *
NORTH DAKOTA		
PIPESTEM LAKE, ND	40,000	40,000
OREGON		
COLUMBIA RIVER AT THE MOUTH, OR and WA	119,003	93,394
PENNSYLVANIA		
GENERAL EDGAR JADWIN DAM AND RESERVOIR, PA	11,000	11,000
TEXAS		
CORPUS CHRISTI SHIP CHANNEL, TX (MAIN CHANNEL AND BARGE LANES)	100,366	100,366
WASHINGTON		
COLUMBIA RIVER FISH MITIGATION, WA, OR and ID (CRFM)	15,377	15,377
SUBTOTAL, PROJECTS LISTED UNDER STATES	1,639,854	1,354,885
REMAINING ITEMS		
ADDITIONAL FUNDING		
FLOOD AND STORM DAMAGE REDUCTION	---	154,000
FLOOD CONTROL	---	174,000
SHORE PROTECTION	---	50,204
NAVIGATION	---	390,000
INLAND WATERWAYS TRUST FUND REVENUES	---	113,000
OTHER AUTHORIZED PROJECT PURPOSES	---	75,000
ENVIRONMENTAL RESTORATION OR COMPLIANCE	---	110,000
ENVIRONMENTAL INFRASTRUCTURE	---	100,000
AQUATIC PLANT CONTROL PROGRAM	---	25,000
BENEFICIAL USE OF DREDGED MATERIAL PILOT PROGRAM	---	11,820
CONTINUING AUTHORITIES PROGRAM		
AQUATIC ECOSYSTEM RESTORATION (SECTION 206)	1,000	11,000 *
BENEFICIAL USES DREDGED MATERIAL (SECTION 204)	---	10,000
EMERGENCY STREAMBANK AND SHORELINE PROTECTION (SECTION 14)	---	8,000
FLOOD CONTROL PROJECTS (SECTION 205)	1,000	15,000
MITIGATION OF SHORE DAMAGES (SECTION 111)	---	5,000

CORPS OF ENGINEERS - CONSTRUCTION
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
NAVIGATION PROGRAM (SECTION 107)	---	5,000
PROJECT MODIFICATIONS FOR IMPROVEMENT OF THE ENVIRONMENT (SECTION 1135)	1,000	10,000
REMOVAL OF OBSTRUCTIONS (SECTION 208)	---	1,500
SHORE PROTECTION (SECTION 103)	---	4,000
DAM SAFETY AND SEEPAGE/STABILITY CORRECTION PROGRAM	13,000	45,872 *
EMPLOYEES' COMPENSATION	17,000	10,000
INLAND WATERWAYS USERS BOARD - BOARD EXPENSE	60	60
INLAND WATERWAYS USERS BOARD - CORPS EXPENSE	275	275
INNOVATIVE FUNDING PARTNERSHIPS	250,000	---
RESTORATION OF ABANDONED MINES	---	2,000
TRIBAL PARTNERSHIP PROGRAM	---	7,029
WRRDA 2014, SECTION 1043 NON-FEDERAL CONSTRUCTION OF FEDERAL PROJECTS	250,000	---
SUBTOTAL, REMAINING ITEMS	533,335	1,337,760
TOTAL, CONSTRUCTION	2,173,189	2,692,645

**Includes funds requested in other accounts.*

Updated Capability.—The agreement adjusts some project-specific allocations downward from the budget request based on updated information.

Additional Funding.—The agreement includes additional funds for projects and activities to enhance the nation's economic growth and international competitiveness.

Of the additional funding provided in this account for environmental restoration or compliance and other authorized project purposes, the Corps shall allocate not less than \$25,000,000 for multistate ecosystem restoration programs for which a comprehensive restoration plan is in development or has been completed, of which not less than \$5,000,000 shall be for projects or programs that restore and rehabilitate native oyster reefs.

Of the additional funds provided in this account for flood and storm damage reduction, navigation, and other authorized project purposes, the Corps shall allocate not less than \$35,000,000 to authorized reimbursements for projects with executed project partnership agreements and that have completed construction or where non-Federal sponsors intend to use the funds for additional water resource development activities.

Of the additional funds provided in this account, the Corps shall allocate not less than \$39,638,000 to projects with riverfront development components.

Of the additional funding provided in this account for navigation and other authorized project purposes, the Corps shall allocate not less than \$59,200,000 to continue activities to construct new navigation infrastructure for locks not on the inland waterways system and Corps-owned bridges.

Of the additional funding provided in this account for flood and storm damage reduction and flood control, the Corps shall allocate not less than \$29,000,000 to continue construction of projects that principally address drainage in urban areas.

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 additional nonstructural flood control projects.

Of the additional funding provided in this account, the Corps shall allocate not less than \$15,400,000 to hurricane and storm damage risk reduction projects in a comprehensive plan with authorized environmental restoration components.

Public Law 115–123 and Public Law 116–20 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 \$50,204,000 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. The Corps shall not condition these funds, or any funds appropriated in this Act, on a non-federal interest paying more than their required share in any phase of a project. When allocating the additional funding provided in this account, the Corps shall consider giving priority to the following:

1. benefits of the funded work to the national economy;
2. extent to which the work will enhance national, regional, or local economic development;
3. number of jobs created directly and supported in the supply chain by the funded activity;
4. significance to national security, including the strategic significance of commodities;
5. ability to obligate the funds allocated within the calendar year, including consideration of the ability of the non-federal sponsor to provide any required cost share;
6. ability to complete the project, separable element, or project phase with the funds allocated;
7. legal requirements, including responsibilities to Tribes;
8. for flood and storm damage reduction projects (including authorized nonstructural measures and periodic beach renourishments),
 - a. population, economic activity, or public infrastructure at risk, as appropriate;
 - b. the severity of risk of flooding or the frequency with which an area has experienced flooding; and
 - c. preservation of historically significant communities, culture, and heritage;
9. 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, and projects in areas where there is risk to life and public health and safety, and risk of environmental contamination;
10. 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;
11. 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;
12. for other authorized project purposes and environmental restoration or compliance projects, that include the beneficial use of dredged material; and
13. for environmental infrastructure, 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 owed past reimbursements, projects in financially-distressed municipalities, projects that improve stormwater capture capabilities, projects that provide backup raw water supply in the event of an emergency, and projects that will provide substantial benefits to water quality improvements.

The following is the only direction with regard to the availability of additional funds for IWTF cost-shared projects. The agreement provides funds making use of all estimated annual revenues, which includes a total appropriation of \$113,000,000 from the IWTF for ongoing construction projects and one new IWTF cost-shared project to be started in fiscal year 2021. The Corps shall continue to prioritize ongoing construction projects and 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. The agreement rejects the budget request's proposal to reform Inland Waterways financing by increasing the amount paid by commercial navigation users of inland waterways. The Corps shall continue to use, as appropriate, the Inland and Intracoastal Waterways Twenty-Year Capital Investment Strategy dated March 2016, as the applicable 20-year plan.

The Corps is reminded that it was directed to develop metrics for the selection of environmental infrastructure projects that receive funds and provide a report on such metrics to Congress. The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on the status of these efforts. Additionally, the Corps shall include in this briefing: a comprehensive listing of all authorized environmental infrastructure authorities, including total costs; a snapshot of all environmental infrastructure authorities funded in the last 10 years; and a plan for how the metrics for prioritization of environmental infrastructure projects may guide the Corps' future funding considerations under the program.

Notwithstanding the direction on new starts in the front matter of Title I, the Corps may allocate funds to at least one, but not more than two environmental infrastructure authorities not previously funded, which may include regional environmental infrastructure authorities.

Advanced Measures.—The Corps is encouraged to fully use the authorities granted to it under the Advanced Measures program to mitigate impacts expected to occur in the Great Lakes Basin as a result of record-high and near-record-high water levels.

Alternative Delivery.—The Corps is reminded that Public-Private Partnerships and projects that utilize a split-delivery approach are eligible for additional funding in this account.

Aquatic Plant Control Program.—Of the additional funding provided for the Aquatic Plant Control Program, \$15,000,000 shall be for watercraft inspection stations, as authorized in section 104 of the River and Harbor Act of 1958, equally distributed to carry out subsections (d)(1)(A)(i), (d)(1)(A)(ii), and (d)(1)(A)(iii), and \$3,000,000 shall be for related monitoring. The agreement provides \$1,000,000 for nationwide research and development to address invasive aquatic plants, and activities for monitoring, surveys, and control of flowering rush and hydrilla verticillate and \$6,000,000 shall be for nationwide research and development to address invasive aquatic plants, within which the Corps is encouraged to support cost-shared aquatic plant management programs. The agreement also includes House direction, including a briefing, on mechanical harvesting.

Barrow Alaska Coastal Erosion.—The flooding and erosion experienced in Barrow, Alaska presents significant risk to life and safety, threatens the community's only drinking water source, and creates risk from environmental contamination. The Corps is reminded this project is eligible to compete for additional funding provided in this account and is encouraged to include appropriate funding in future budget submissions.

Beneficial Use of Dredged Material Pilot Program.—The agreement reiterates House direction on this topic.

Bird Drive Basin Conveyance, Seepage Collection, and Recharge.—The Corps is encouraged to work with the Department of the Interior and the South Florida Water Management District to quickly identify a consensus project footprint between SW 8th Street and the C-1W Canal to the south, immediately east of Krome Avenue, to enable Miami-Dade County and the Miami-Dade Expressway Authority, or any successor organization, to begin necessary land acquisitions in support of the creation of a West Kendall Everglades Buffer and progress towards completing an important element of the Central Everglades Restoration Plan.

Biscayne Bay Coastal Wetlands Project.—The Corps is encouraged to consider all available opportunities to increase environmental benefits to the coastal estuarine and glades habitats included in the study area.

Camp Ellis Beach, Saco, Maine.—The Corps is directed to continue collaborative efforts to address the continued erosion.

Caño Martín Peña, Puerto Rico.—The agreement notes the environmental degradation and persistent flooding that disadvantages communities abutting the channel, as evidenced by Hurricanes Irma and Maria. There remains interest in the timely advancement of this project given the years of significant planning that have been undertaken and its purpose in restoring a critical watershed and the natural functioning of the tidal system in the San Jose Lagoon and the San Juan Bay Estuary. There is concern about the lost opportunities and delays arising due to the lack of funding to start construction of this important project. The Corps is encouraged to include appropriate funding for this project in future budget submissions and to work with the non-federal sponsor to advance the project to the next phase at the earliest practicable opportunity. The agreement reiterates House direction regarding briefing requirements.

Central Everglades Planning Project [CEPP].—The Corps is urged to expedite the required validation reports for PPA North and PPA New Water and to begin design and construction of components for PPA South and PPA New Water as soon as practicable to complement the efforts of the South Florida Water Management District. The Everglades Agricultural Area (EAA) Storage Reservoir is considered an element of CEPP, consistent with section 1308 of America's Water Infrastructure Act of 2018 (Public Law 115-270) which anticipated the EAA Storage Reservoir to be designed and constructed as a component of CEPP, rather than as a discrete project.

CERP—Indian River Lagoon-South.— The Corps is encouraged to move on to the final construction of the C-44 Reservoir, and to expedite design work on the C-23 and C-24 Reservoirs that, along with the C-44 Reservoir, will serve as crucial elements of the Indian River Lagoon-South project to collect and clean Lake Okeechobee discharges and basin runoff before excess nutrients are able to enter the fragile lagoon ecosystem.

Chesapeake Bay Comprehensive Water Resources Restoration Plan and Oyster Recovery.—The Corps is reminded that the Chesapeake Bay Comprehensive Water Resources and Restoration Plan and the Chesapeake Bay Oyster Recovery Program are eligible to compete for the additional funding provided in this account, and the Corps is encouraged to provide appropriate funding in future budget submissions..

Construction Funding Schedules.—A complete and reliable cost estimate with an out-year funding schedule is essential to understanding current funding and future funding requirements within the Corps' Construction portfolio. A comprehensive outlook of these dynamic requirements is necessary for Congress to consider and balance funding allocations annually, and to assess the long-term effects of new investment decisions. Therefore, not later than 90 days after enactment of this Act and annually thereafter, the Chief of Engineers shall submit directly to the Committees on Appropriations of both Houses of Congress, a breakdown, by fiscal year, of the full and efficient federal funding needs for each active construction project in the Corps' Civil Works program. For each project identified, the Corps shall also provide the total project cost with a breakdown between the federal and non-federal costs, and any applicable authorization ceiling. For the purposes of this report, an active project shall mean any project with an expressed capability in the current or following fiscal year, which has received construction account appropriations, including those funded in a supplemental, and has remaining costs to be funded from the construction account. These funding requirements shall be based on technical construction sequencing and realistic workflow and shall not be altered to reflect administrative policies and priorities or any assumed limitation on funding available.

Continuing Authorities Program.— Funding is provided for nine CAP sections at a total of \$69,500,000. The management of CAP shall continue consistent with direction provided in previous fiscal years. Not later than 90 days after enactment of this Act, the Corps shall brief the Committee on how the Corps prioritizes CAP projects for funding and on program execution.

The Corps shall allow for the advancement of flood control projects in combination with ecological benefits using natural and nature-based solutions alone, or in combination with, built infrastructure where appropriate for reliable risk reduction during the development of projects under CAP 205.

Within the section 1135 CAP authority, and to the extent already authorized by law, the Corps is reminded that projects that restore degraded wetland habitat and stream habitat impacted by construction of Corps levees or channels, including those with executed Feasibility Cost Share Agreements, are eligible to compete for funding. The Corps is reminded that projects that restore degraded wetland habitat and stream habitat impacted by construction of Corps levees or channels, and projects that will divert significant pollutant nutrient runoff from entering wetland habitats, are eligible to compete for funding.

The Corps is encouraged to expedite the implementation of feasibility studies approved in 2019 under section 206 of the Flood Control Act of 1958 and reminded that projects approved in 2019 are eligible to compete for funds provided under section 206.

Deep Creek Bridge Replacement.—The Corps is reminded that the ongoing Atlantic Intracoastal Waterway bridge replacement project is eligible to compete for additional funding provided in this account.

Duwamish River at South Park, Washington.—The Corps is urged to continue its ongoing work with local stakeholders to determine appropriate flood risk mitigation measures and is reminded that this project is eligible to compete for additional funding recommended in CAP section 205.

Gulf Coast Oyster Restoration.—The Corps is encouraged to include appropriate funding in future budget submissions.

Howard Hanson Dam, Washington.—The Corps is directed to work expeditiously on this project in order to meet the 2030 deadline established in the Biological Opinion.

Lake Champlain Watershed.—The Corps is reminded that section 542 of Water Resources Development Act of 2000 (Public Law 106–541) as amended, authorizes the Corps to provide assistance to non-federal interests to address a range of environmental issues in the Lake Champlain Watershed in Vermont and New York. The Corps is further reminded that projects in the Lake Champlain Watershed are eligible to compete for additional funding provided in this account.

Lakes Marion and Moultrie, South Carolina.—The Corps is reminded that the Lakes Marion and Moultrie regional water supply project is eligible to compete for additional funding provided in this account.

McClellan-Kerr Arkansas River Navigation System, Arkansas and Oklahoma.—The Committee recognizes the importance of the 12-foot navigational channel project to the McClellan-Kerr Arkansas River Navigation System. The Corps is encouraged to continue working with stakeholders and is reminded that this project is eligible to compete for additional funding provided in this account.

Mud Mountain Dam.—The Corps is encouraged to uphold the agency's ESA and Tribal treaty responsibilities by completing construction of the fish passage facility and fully implementing the Biological Opinion requirements by the end of 2020.

Murrieta Creek.—The non-federal sponsor intends to pursue a section 221 In-Kind Credit Contribution Agreement with the Corps to do the design work to optimize the multi-purpose basin so as to eliminate or reduce the need for perimeter levees, optimize costs and benefits, and facilitate interim uses of the property. The Corps is encouraged to move forward with timely approval of the agreement. The non-federal sponsor also is moving forward with the Corps to address the outdated information in the Corps' economic side-by-side analysis for the project in order to identify the most cost-effective project. The Corps is directed to coordinate closely with the non-federal sponsor in the economic update in order to have a strong basis for the development of a decision document that focuses on identifying the remaining justified features for construction completion.

New Buffalo, Michigan.—The agreement reiterates House direction regarding a briefing on this issue.

New Programs Requested in the Budget Proposal.—The budget request includes a proposal for \$250,000,000 for projects carried out under section 1043 of the Water Resources Reform and Development Act of 2014, "Non-federal Implementation Pilot Program." This pilot program was authorized to allow the transfer of federal funds to non-federal interests for them to perform studies and construct projects. The agreement rejects the idea that the method of project execution should be used to prioritize projects for federal funding and provides no funds for such an effort. The Corps is directed to provide the briefing required in the fiscal year 2020 Act not later than 45 days after enactment of this Act.

Due to ongoing concerns, the Corps shall notify the Committees on Appropriations of both Houses of Congress upon receiving any proposal from a non-federal interest requesting to utilize the section 1043 authority. The Corps shall not negotiate or enter into a project partnership agreement to transfer funds to a non-federal interest utilizing this authority unless approval is received from the Committees on Appropriations of both Houses of Congress. None of the funds provided in this Act shall be used under this authority for a project where construction has been started but not completed. The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than 45 days after enactment of this Act on activities carried out under the section 1043 pilot program, including the Corps' implementation guidance and any existing or potential agreements.

The budget request also includes \$250,000,000 for an Innovative Funding Partnerships Program to be used along with funds from non-federal interests "in excess of the sponsor's statutory cost share requirements" to carry out certain authorized projects. This is a blatant attempt to require funding in excess of legally required cost share as a criterion for funding decisions, which is contrary to long-standing congressional direction. No funds are provided for this proposal. The agreement notes, however, that any project that could have received funding under such a program is eligible to compete for the additional funding provided in this account based on the project performance criteria described in this report.

New Savannah Bluff Lock and Dam, Georgia and South Carolina.—The agreement reiterates House direction regarding a briefing on this project.

Norfolk Harbor and Channels Deepening, Virginia.—The Corps is reminded that the Norfolk Harbor and Channels Deepening project is eligible to compete for funding from the additional funds provided in this account and eligible to compete for a new construction start provided in this Act.

Port of Brownsville Deepening Project, Texas.—The Corps is reminded this project is eligible to compete for a new construction start as provided in this Act.

Portsmouth and Piscataqua River, New Hampshire.—The Corps is reminded this project is eligible to compete for a new construction start as provided in this Act.

Projects in Drought-Stricken Areas.—The Corps is reminded that any authorized projects that would alleviate water supply issues in areas that have been afflicted by severe droughts in the last three fiscal years are eligible to compete for additional funding provided in this account.

Salton Sea, California.—The Corps is encouraged to expeditiously move forward to carry out section 3032 of Public Law 110–114.

South Florida Ecosystem Restoration (SFER).—As in previous years, the agreement 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. For fiscal year 2021, the Corps is directed to make publicly available a comprehensive snapshot of all SFER cost share accounting down to the project level and to ensure the accuracy of all budget justification sheets that inform SFER Integrated Financial Plan documents by September 30, 2021.

Strategic Arctic Port.—The Corps is urged to move expeditiously on this project and is reminded that this project is eligible to compete for additional funding provided in this account, to decrease risks to life and safety from the increased traffic in the region, and to provide a port to military assets.

The Dalles Dam, Tribal Housing.—The Corps is encouraged to complete the Village Development Plan in consultation with affected Columbia River tribes and the Bureau of Indian Affairs.

Upper Mississippi River Restoration Program [UMRR], Quincy Bay.—Over the past 70 years, river traffic has led to the environmental degradation of Quincy Bay, and the Corps included funding to start this restoration project in its budget request. Therefore, the Corps is encouraged to include appropriate funding for this project in future budget submissions.

West Sacramento Project.—The Corps is reminded that this project is eligible to compete for a new construction start as provided in this Act and is encouraged to include appropriate funding for this project in future budget submissions.

Whittier Narrows, California.—The agreement reiterates House direction regarding a reporting requirement.

MISSISSIPPI RIVER AND TRIBUTARIES

The agreement includes \$380,000,000 for Mississippi River and Tributaries.

The allocation for projects and activities within the Mississippi River and Tributaries account is shown in the following table:

[INSERT TABLE]

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

	BUDGET REQUEST	FINAL BILL
CONSTRUCTION		
CHANNEL IMPROVEMENT, AR, IL, KY, LA, MS, MO and TN	22,975	22,975
MISSISSIPPI RIVER LEVEES, AR, IL, KY, LA, MS, MO and TN	21,950	21,950
ATCHAFALAYA BASIN, FLOODWAY SYSTEM, LA	300	300
OPERATION & MAINTENANCE		
CHANNEL IMPROVEMENT, AR, IL, KY, LA, MS, MO and TN	73,700	73,700
MISSISSIPPI RIVER LEVEES, AR, IL, KY, LA, MS, MO and TN	10,077	10,077
ATCHAFALAYA BASIN, LA	13,310	13,310
ATCHAFALAYA BASIN, FLOODWAY SYSTEM, LA	1,517	1,517
HELENA HARBOR, PHILLIPS COUNTY, AR	---	540 *
INSPECTION OF COMPLETED WORKS, AR	---	211 ~
LOWER ARKANSAS RIVER, NORTH BANK, AR	225	225
LOWER ARKANSAS RIVER, SOUTH BANK, AR	298	298
ST. FRANCIS BASIN, AR and MO	11,061	11,061
TENSAS BASIN, BOEUF AND TENSAS RIVER, AR and LA	1,291	1,291
WHITE RIVER BACKWATER, AR	1,100	1,100
INSPECTION OF COMPLETED WORKS, IL	---	30 ~
INSPECTION OF COMPLETED WORKS, KY	---	25 ~
BATON ROUGE HARBOR, DEVILS SWAMP, LA	---	560 *
BAYOU COCODRIE AND TRIBUTARIES, LA	48	48
BONNET CARRE, LA	3,505	3,505
INSPECTION OF COMPLETED WORKS, LA	---	348 ~
LOWER RED RIVER, SOUTH BANK LEVEES, LA	470	470
MISSISSIPPI DELTA REGION, LA	500	500
OLD RIVER, LA	8,381	8,381
TENSAS BASIN, RED RIVER BACKWATER, LA	2,368	2,368
GREENVILLE HARBOR, MS	---	930 *
INSPECTION OF COMPLETED WORKS, MS	---	243 ~
VICKSBURG HARBOR, MS	---	940 *
YAZOO BASIN, ARKABUTLA LAKE, MS	5,326	5,326
YAZOO BASIN, BIG SUNFLOWER RIVER, MS	146	146
YAZOO BASIN, ENID LAKE, MS	5,113	5,113
YAZOO BASIN, GREENWOOD, MS	980	980
YAZOO BASIN, GRENADA LAKE, MS	5,326	5,326
YAZOO BASIN, MAIN STEM, MS	893	893
YAZOO BASIN, SARDIS LAKE, MS	6,238	6,238
YAZOO BASIN, TRIBUTARIES, MS	421	421
YAZOO BASIN, WILL M. WHITTINGTON AUXILIARY CHANNEL, MS	278	278
YAZOO BASIN, YAZOO BACKWATER AREA, MS	425	425
YAZOO BASIN, YAZOO CITY, MS	364	364
INSPECTION OF COMPLETED WORKS, MO	---	90 ~
WAPPAPELLO LAKE, MO	4,505	4,505

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

	BUDGET REQUEST	FINAL BILL
INSPECTION OF COMPLETED WORKS, TN	---	25 ~
MEMPHIS HARBOR, MCKELLAR LAKE, TN	---	2,163 *
SUBTOTAL, PROJECTS LISTED UNDER STATES	203,091	209,196
REMAINING ITEMS		
ADDITIONAL FUNDING		
DREDGING	---	5,000
FLOOD CONTROL	---	110,094
OTHER AUTHORIZED PROJECT PURPOSES	---	50,000
COLLECTION AND STUDY OF BASIC DATA (INVESTIGATIONS)	5,710	5,710
MISSISSIPPI RIVER COMMISSION	90	---
INSPECTION OF COMPLETED WORKS (OPERATION)	972	---
SUBTOTAL, REMAINING ITEMS	6,772	170,804
TOTAL, MISSISSIPPI RIVER AND TRIBUTARIES	209,863	380,000

**Includes funds requested in other accounts.*

~Includes funds requested in remaining items.

Additional Funding.—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. This may include work on remaining unconstructed features of projects permitted and authorized by law, in response to recent flood disasters. Additional funding is also provided in this account to initiate a new feasibility study.

When allocating the additional funding recommended in this account, the Corps shall allocate not less than \$30,000,000 for additional flood control construction projects, of which \$15,560,000 shall be for those projects with flood control, water quality, and sediment reduction.

Of the additional funds recommended in this account for other authorized project purposes, the Corps shall allocate not less than \$1,160,000 for operation and maintenance of facilities that are educational or to continue land management of mitigation features.

Delta Headwaters Project.—The agreement recognizes the importance of erosion control in headwater streams and tributaries, and the environmental, water quality, and sediment reduction benefits it provides downstream. When allocating additional funds recommended in this account, the Corps is directed to give adequate consideration to cooperative projects addressing watershed erosion, sedimentation, flooding, and environmental degradation.

Lower Mississippi River Watershed.—The agreement notes negative impacts in the Mississippi River system as a result of multiple high-water events in recent years. The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on actions taken to manage the river over the past three years and any impacts of such actions on ecosystem restoration, navigation, flood control, water quality, and others. Congress has heard from stakeholders that the construction of new water resources development projects, improved data collection methods, and structural and operation modifications to existing projects are critical to better understand changing hydraulic features and to effectively manage and respond to future high-water events, and that a study is necessary to fully understand such opportunities. Congress acknowledges that authorized comprehensive studies are eligible to compete for additional funding provided in the account. Congress expects any studies, updates, and changes to be made with the appropriate public involvement.

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

The agreement includes \$3,849,655,000 for Operation and Maintenance.

The allocation for projects and activities within the Operation and Maintenance account is shown in the following table:

[INSERT TABLE]

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

	BUDGET REQUEST	FINAL BILL
ALABAMA		
ALABAMA RIVER LAKES, AL	13,005	13,005
BAYOU LA BATRE, AL	---	26 *
BLACK WARRIOR AND TOMBIGBEE (BWT) RIVERS, AL	23,266	23,266
GULF INTRACOASTAL WATERWAY (GIWW), AL	5,605	5,605
INSPECTION OF COMPLETED WORKS, AL	---	186 ~
MOBILE HARBOR, AL	---	24,968 *
PROJECT CONDITION SURVEYS, AL	---	150 *
SCHEDULING OF RESERVOIR OPERATIONS, AL	---	85 ~
TENNESSEE - TOMBIGBEE WATERWAY WILDLIFE MITIGATION, AL and MS	1,800	1,800
TENNESSEE - TOMBIGBEE WATERWAY (TTWW), AL and MS	28,880	28,880
WALTER F. GEORGE LOCK AND DAM, AL and GA	8,657	8,657
ALASKA		
ANCHORAGE HARBOR, AK	---	11,300 *
CHENA RIVER LAKES FLOOD CONTROL PROJECT, NORTH POLE, AK	5,802	5,802
DILLINGHAM HARBOR, AK	---	815 *
HOMER HARBOR, AK	---	650 *
INSPECTION OF COMPLETED WORKS, AK	---	190 ~
NINILCHIK HARBOR, AK	---	470 *
NOME HARBOR, AK	---	2,317 *
PROJECT CONDITION SURVEYS, AK	---	750 *
WRANGELL HARBOR, AK	---	150 *
ARIZONA		
ALAMO LAKE, AZ	5,156	5,156
INSPECTION OF COMPLETED WORKS, AZ	---	140 ~
PAINTED ROCK DAM, AZ	4,570	4,570
SCHEDULING OF RESERVOIR OPERATIONS, AZ	---	110 ~
WHITLOW RANCH DAM, AZ	817	817
ARKANSAS		
BEAVER LAKE, AR	9,614	9,614
BLAKELY MOUNTAIN DAM, LAKE OUACHITA, AR	8,385	8,385
BLUE MOUNTAIN LAKE, AR	2,949	2,949
BULL SHOALS LAKE, AR	8,348	8,348
DEGRAY LAKE, AR	6,605	6,605
DEQUEEN LAKE, AR	2,925	2,925
DIERKS LAKE, AR	2,540	2,540
GILLHAM LAKE, AR	1,598	1,598
GREERS FERRY LAKE, AR	8,271	8,271
HELENA HARBOR, AR	---	15 *
INSPECTION OF COMPLETED WORKS, AR	---	885 ~

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

	BUDGET REQUEST	FINAL BILL
MCCLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM, AR	49,486	49,486
MILLWOOD LAKE, AR	3,405	3,405
NARROWS DAM, LAKE GREESON, AR	5,851	5,851
NIMROD LAKE, AR	2,326	2,326
NORFORK LAKE, AR	6,337	6,337
OSCEOLA HARBOR, AR	---	15 *
OUACHITA AND BLACK RIVERS, AR and LA	7,625	7,625
PROJECT CONDITION SURVEYS, AR	---	5 *
WHITE RIVER, AR	25	25
YELLOW BEND PORT, AR	---	125 *
CALIFORNIA		
BLACK BUTTE LAKE, CA	2,654	2,654
BUCHANAN DAM - H.V. EASTMAN LAKE, CA	2,619	2,619
COYOTE VALLEY DAM, LAKE MENDOCINO, CA	4,840	4,840
DRY CREEK (WARM SPRINGS) LAKE AND CHANNEL, CA	7,488	7,488
FARMINGTON DAM, CA	666	666
HIDDEN DAM - HENSLEY LAKE, CA	2,543	2,543
HUMBOLDT HARBOR AND BAY, CA	---	4,310 *
INSPECTION OF COMPLETED WORKS, CA	---	4,197 ~
ISABELLA LAKE, CA	2,121	2,121
LOS ANGELES COUNTY DRAINAGE AREA, CA	18,073	18,073
MERCED COUNTY STREAMS, CA	523	523
MOJAVE RIVER DAM, CA	1,029	1,029
MORRO BAY HARBOR, CA	---	2,800 *
MOSS LANDING HARBOR, CA	---	---
NEW HOGAN LAKE, CA	3,799	3,799
NEW MELONES LAKE (DOWNSTREAM CHANNEL), CA	2,318	2,318
NOYO RIVER AND HARBOR, CA	---	400 *
OAKLAND HARBOR, CA	---	21,975 *
OCEANSIDE HARBOR, CA	---	2,470 *
PINE FLAT LAKE, CA	4,722	4,722
PROJECT CONDITION SURVEYS, CA	---	1,420 *
REDWOOD CITY HARBOR, CA	---	8,460 *
RICHMOND HARBOR, CA	---	6,210 *
SACRAMENTO RIVER (30 FOOT CHANNEL), CA	---	1,610 *
SACRAMENTO RIVER AND TRIBUTARIES (DEBRIS CONTROL), CA	844	1,649 *
SACRAMENTO RIVER (SHALLOW DRAFT CHANNEL), CA	---	190 *
SAN FRANCISCO BAY DELTA MODEL STRUCTURE, CA	949	949
SAN FRANCISCO BAY LONG TERM MANAGEMENT STRATEGY (LTMS), CA	---	450 *
SAN FRANCISCO HARBOR AND BAY (DRIFT REMOVAL), CA	---	3,593 *
SAN FRANCISCO HARBOR, CA	---	4,700 *
SAN JOAQUIN RIVER (PORT OF STOCKTON), CA	---	4,610 *
SAN PABLO BAY AND MARE ISLAND STRAIT, CA	---	---
SANTA ANA RIVER BASIN, CA	9,856	9,856
SANTA BARBARA HARBOR, CA	---	2,900 *

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

	BUDGET REQUEST	FINAL BILL
SCHEDULING OF RESERVOIR OPERATIONS, CA	---	1,680 ~
SUCCESS LAKE, CA	3,274	3,274
SUISUN BAY CHANNEL, CA	---	5,774 *
TERMINUS DAM (LAKE KAWEAH), CA	3,482	3,482
VENTURA HARBOR, CA	---	4,795 *
YUBA RIVER, CA	271	1,631 *
COLORADO		
BEAR CREEK LAKE, CO	677	677
CHATFIELD LAKE, CO	1,618	1,618
CHERRY CREEK LAKE, CO	1,127	1,127
JOHN MARTIN RESERVOIR, CO	3,084	3,084
INSPECTION OF COMPLETED WORKS, CO	---	302 ~
SCHEDULING OF RESERVOIR OPERATIONS, CO	---	550 ~
TRINIDAD LAKE, CO	2,060	2,060
CONNECTICUT		
BLACK ROCK LAKE, CT	1,455	1,455
COLEBROOK RIVER LAKE, CT	847	847
HANCOCK BROOK LAKE, CT	843	843
HOP BROOK LAKE, CT	1,433	1,433
INSPECTION OF COMPLETED WORKS, CT	---	833 ~
MANSFIELD HOLLOW LAKE, CT	929	929
NORTHFIELD BROOK LAKE, CT	1,224	1,224
PROJECT CONDITION SURVEYS, CT	---	1,100 *
STAMFORD HURRICANE BARRIER, CT	606	606
THOMASTON DAM, CT	1,273	1,273
WEST THOMPSON LAKE, CT	1,910	1,910
DELAWARE		
INSPECTION OF COMPLETED WORKS, DE	---	71 ~
INTRACOASTAL WATERWAY, DELAWARE RIVER TO CHESAPEAKE BAY, DE and MD	---	18,520 *
INTRACOASTAL WATERWAY, REHOBOTH BAY TO DELAWARE BAY, DE	---	30 *
PROJECT CONDITION SURVEYS, DE	---	225 *
WILMINGTON HARBOR, DE	---	7,970 *
DISTRICT OF COLUMBIA		
INSPECTION OF COMPLETED WORKS, DC	---	47 ~
POTOMAC AND ANACOSTIA RIVERS, DC AND MD (DRIFT REMOVAL)	---	1,250 *
PROJECT CONDITION SURVEYS, DE	---	30 *
WASHINGTON HARBOR, DC	---	25 *

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

	BUDGET REQUEST	FINAL BILL
FLORIDA		
AIWW, NORFOLK, VA TO ST JOHNS RIVER, FL, GA, SC, NC and VA	100	100
CANAVERAL HARBOR, FL	---	8,355 *
CENTRAL & SOUTHERN FLORIDA (C&SF), FL	16,073	17,667 *
FERNANDINA HARBOR, FL	---	36 *
INSPECTION OF COMPLETED WORKS, FL	---	940 ~
INTRACOASTAL WATERWAY, CALOOSAHATCHEE R TO ANCLOTE R, FL	---	110 *
INTRACOASTAL WATERWAY (IWW) - JACKSONVILLE TO MIAMI, FL	280	280
JACKSONVILLE HARBOR, FL	---	7,850 *
JIM WOODRUFF LOCK AND DAM, FL, AL and GA	8,099	8,099
MANATEE HARBOR, FL	---	75 *
MIAMI HARBOR, FL	---	230 *
OKEECHOBEE WATERWAY (OWW), FL	1,329	3,084 *
PALM BEACH HARBOR, FL	---	320 *
PANAMA CITY HARBOR, FL	---	1,803 *
PENSACOLA HARBOR, FL	---	1,290 *
PONCE DE LEON INLET, FL	---	36 *
PORT EVERGLADES HARBOR, FL	---	380 *
PROJECT CONDITION SURVEYS, FL	---	1,043 *
REMOVAL OF AQUATIC GROWTH, FL	---	3,432 *
SCHEDULING OF RESERVOIR OPERATIONS, FL	---	100 ~
SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) PROGRAM, FL	10,052	10,052
TAMPA HARBOR, FL	---	9,687 *
GEORGIA		
ALLATOONA LAKE, GA	8,740	8,740
APALACHICOLA, CHATTAHOOCHEE AND FLINT (ACF) RIVERS, GA, AL and FL	1,514	1,514
ATLANTIC INTRACOASTAL WATERWAY (AIWW), GA	202	202
BRUNSWICK HARBOR, GA	---	4,085 *
BUFORD DAM AND LAKE SIDNEY LANIER, GA	10,771	10,771
CARTERS DAM AND LAKE, GA	7,783	7,783
HARTWELL LAKE, GA and SC	10,744	10,781 *
INSPECTION OF COMPLETED WORKS, GA	---	222 ~
J. STROM THURMOND (JST) DAM AND LAKE, GA and SC	10,446	10,518 *
PROJECT CONDITION SURVEYS, GA	---	75 *
RICHARD B. RUSSELL (RBR) DAM AND LAKE, GA and SC	9,895	9,895
SAVANNAH HARBOR, GA	---	29,418 *
SAVANNAH RIVER BELOW AUGUSTA, GA	---	161 *
WEST POINT DAM AND LAKE, GA and AL	8,132	8,132
HAWAII		
BARBERS POINT DEEP DRAFT HARBOR, OAHU, HI	305	305
HILO HARBOR, HI	---	200 *
INSPECTION OF COMPLETED WORKS, HI	---	591 ~

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

	BUDGET REQUEST	FINAL BILL
PROJECT CONDITION SURVEYS, HI	---	684 *
IDAHO		
ALBENI FALLS DAM, ID	1,332	1,332
DWORSHAK DAM AND RESERVOIR, ID	2,750	2,750
INSPECTION OF COMPLETED WORKS, ID	---	421 ~
LUCKY PEAK DAM AND LAKE, ID	2,459	2,459
SCHEDULING OF RESERVOIR OPERATIONS, ID	---	728 ~
ILLINOIS		
CALUMET HARBOR AND RIVER, IL and IN	---	6,236 *
CARLYLE LAKE, IL	6,570	6,570
CHICAGO HARBOR, IL	---	3,800 *
CHICAGO RIVER, IL	619	619
CHICAGO SANITARY AND SHIP CANAL DISPERSAL BARRIERS, IL	14,301	14,301
FARM CREEK RESERVOIRS, IL	2,712	2,712
ILLINOIS WATERWAY (MVR PORTION), IL and IN	42,413	42,413
ILLINOIS WATERWAY (MVS PORTION), IL and IN	2,128	2,128
INSPECTION OF COMPLETED WORKS, IL	---	2,377 ~
KASKASKIA RIVER NAVIGATION, IL	2,206	2,206
LAKE MICHIGAN DIVERSION, IL	---	1,170 *
LAKE SHELBYVILLE, IL	6,310	6,310
MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVR PORTION), IL	78,659	78,659
MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVS PORTION), IL	40,790	40,790
PROJECT CONDITION SURVEYS, IL	---	107 *
REND LAKE, IL	6,743	6,743
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, IL	---	560 *
WAUKEGAN HARBOR, IL	---	11 *
INDIANA		
BROOKVILLE LAKE, IN	1,731	1,731
BURNS WATERWAY HARBOR, IN	---	4,467 *
CAGLES MILL LAKE, IN	1,485	1,485
CECIL M. HARDEN LAKE, IN	1,436	1,436
INDIANA HARBOR, IN	---	7,576 *
INSPECTION OF COMPLETED WORKS, IN	---	1,365 ~
J. EDWARD ROUSH LAKE, IN	2,098	2,098
MICHIGAN CITY HARBOR, IN	---	10 *
MISSISSINEWA LAKE, IN	2,919	2,919
MONROE LAKE, IN	1,378	1,378
PATOKA LAKE, IN	1,187	1,187
PROJECT CONDITION SURVEYS, IN	---	192 *

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

	BUDGET REQUEST	FINAL BILL
SALAMONIE LAKE, IN	3,507	3,507
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, IN	---	100 *
IOWA		
CORALVILLE LAKE, IA	5,027	5,027
INSPECTION OF COMPLETED WORKS, IA	---	1,106 ~
MISSOURI RIVER FISH AND WILDLIFE RECOVERY, IA, KS, MO, MT, NE, ND and SD	4,665	4,665
MISSOURI RIVER, SIOUX CITY TO THE MOUTH, IA, KS, MO and NE	9,465	9,465
PROJECT CONDITION SURVEYS, IA	---	2 *
RATHBUN LAKE, IA	2,821	2,821
RED ROCK DAM AND LAKE RED ROCK, IA	5,081	5,081
SAYLORVILLE LAKE, IA	6,854	6,854
KANSAS		
CLINTON LAKE, KS	2,615	2,615
COUNCIL GROVE LAKE, KS	2,029	2,029
EL DORADO LAKE, KS	756	756
ELK CITY LAKE, KS	1,029	1,029
FALL RIVER LAKE, KS	1,544	1,544
HILLSDALE LAKE, KS	1,300	1,300
INSPECTION OF COMPLETED WORKS, KS	---	1,629 ~
JOHN REDMOND DAM AND RESERVOIR, KS	1,760	1,760
KANOPOLIS LAKE, KS	2,000	2,000
MARION LAKE, KS	1,869	1,869
MELVERN LAKE, KS	2,734	2,734
MILFORD LAKE, KS	2,532	2,532
PEARSON-SKUBITZ BIG HILL LAKE, KS	1,401	1,401
PERRY LAKE, KS	3,387	3,387
POMONA LAKE, KS	2,530	2,530
SCHEDULING OF RESERVOIR OPERATIONS, KS	---	566 ~
TORONTO LAKE, KS	752	752
TUTTLE CREEK LAKE, KS	3,069	3,069
WILSON LAKE, KS	3,610	3,610
KENTUCKY		
BARKLEY DAM AND LAKE BARKLEY, KY and TN	13,559	13,559
BARREN RIVER LAKE, KY	3,149	3,149
BIG SANDY HARBOR, KY	---	1,927 *
BUCKHORN LAKE, KY	2,044	2,044
CARR CREEK LAKE, KY	2,320	2,320
CAVE RUN LAKE, KY	1,259	1,259
DEWEY LAKE, KY	2,115	2,115
ELVIS STAHR (HICKMAN) HARBOR, KY	---	935 *

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

	BUDGET REQUEST	FINAL BILL
FALLS OF THE OHIO NATIONAL WILDLIFE, KY and IN	58	58
FISHTRAP LAKE, KY	2,348	2,348
GRAYSON LAKE, KY	2,037	2,037
GREEN AND BARREN RIVERS, KY	2,839	2,839
GREEN RIVER LAKE, KY	3,259	3,259
INSPECTION OF COMPLETED WORKS, KY	---	1,221 ~
KENTUCKY RIVER, KY	5	5
LAUREL RIVER LAKE, KY	2,571	2,571
MARTINS FORK LAKE, KY	1,642	1,642
MIDDLESBORO CUMBERLAND RIVER, KY	282	282
NOLIN LAKE, KY	3,173	3,173
OHIO RIVER LOCKS AND DAMS, KY, IL, IN and OH	64,879	64,879
OHIO RIVER OPEN CHANNEL WORK, KY, IL, IN, OH, PA and WV	7,172	7,172
PAINTSVILLE LAKE, KY	1,560	1,560
PROJECT CONDITION SURVEYS, KY	---	5 *
ROUGH RIVER LAKE, KY	3,451	3,451
TAYLORSVILLE LAKE, KY	1,860	1,860
WOLF CREEK DAM, LAKE CUMBERLAND, KY	10,768	10,768
YATESVILLE LAKE, KY	1,409	1,409
LOUISIANA		
ATCHAFALAYA RIVER AND BAYOUS CHENE, BOEUF and BLACK, LA	---	4,430 *
BARATARIA BAY WATERWAY, LA	---	100 *
BAYOU BODCAU DAM AND RESERVOIR, LA	742	742
BAYOU LAFOURCHE AND LAFOURCHE JUMP WATERWAY, LA	---	250 *
BAYOU PIERRE, LA	33	33
BAYOU SEGNETTE WATERWAY, LA	---	10 *
BAYOU TECHE AND VERMILION RIVER, LA	---	30 *
BAYOU TECHE, LA	---	50 *
CADDO LAKE, LA	286	286
CALCASIEU RIVER AND PASS, LA	---	7,400 *
FRESHWATER BAYOU, LA	---	7,577 *
GULF INTRACOASTAL WATERWAY, LA	12,393	12,393
HOUMA NAVIGATION CANAL, LA	---	2,750 *
INSPECTION OF COMPLETED WORKS, LA	---	1,084 ~
J. BENNETT JOHNSTON WATERWAY, LA	11,110	11,110
LAKE PROVIDENCE HARBOR, LA	---	1,330 *
MADISON PARISH PORT, LA	---	207 *
MERMENTAU RIVER, LA	---	1,880 *
MISSISSIPPI RIVER OUTLETS AT VENICE, LA	---	2,750 *
MISSISSIPPI RIVER, BATON ROUGE TO THE GULF OF MEXICO, LA	---	64,000 *
PROJECT CONDITION SURVEYS, LA	---	25 *
REMOVAL OF AQUATIC GROWTH, LA	---	200 *
TANGIPAHOA RIVER, LA	---	20 *
WALLACE LAKE, LA	207	207
WATERWAY FROM EMPIRE TO THE GULF, LA	---	10 *

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

	BUDGET REQUEST	FINAL BILL
WATERWAY FROM INTRACOASTAL WATERWAY TO BAYOU DULAC, LA	---	15 *
MAINE		
DISPOSAL AREA MONITORING, ME	---	1,050 *
INSPECTION OF COMPLETED WORKS, ME	---	183 ~
PROJECT CONDITION SURVEYS, ME	---	1,100 *
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, ME	---	30 *
MARYLAND		
BALTIMORE HARBOR AND CHANNELS (50 FOOT), MD	---	20,085 *
BALTIMORE HARBOR, MD (DRIFT REMOVAL)	---	600 *
CUMBERLAND, MD AND RIDGELEY, WV	215	215
INSPECTION OF COMPLETED WORKS, MD	---	151 ~
JENNINGS RANDOLPH LAKE, MD and WV	2,395	2,395
OCEAN CITY HARBOR AND INLET AND SINEPUXENT BAY, MD	---	515 *
PROJECT CONDITION SURVEYS, MD	---	600 *
SCHEDULING OF RESERVOIR OPERATIONS, MD	---	167 ~
WICOMICO RIVER, MD	---	4,400 *
MASSACHUSETTS		
BARRE FALLS DAM, MA	698	698
BIRCH HILL DAM, MA	1,217	1,217
BUFFUMVILLE LAKE, MA	1,006	1,006
CAPE COD CANAL, MA	2,012	12,437 *
CHARLES RIVER NATURAL VALLEY STORAGE AREAS, MA	388	388
CHATHAM (STAGE) HARBOR, MA	---	400 *
CONANT BROOK DAM, MA	480	480
EAST BRIMFIELD LAKE, MA	909	909
GREEN HARBOR, MA	---	400 *
HODGES VILLAGE DAM, MA	964	964
INSPECTION OF COMPLETED WORKS, MA	---	437 ~
KNIGHTVILLE DAM, MA	1,164	1,164
LITTLEVILLE LAKE, MA	1,768	1,768
NEW BEDFORD HURRICANE BARRIER, MA	1,021	1,021
PLYMOUTH HARBOR, MA	---	100 *
PROJECT CONDITION SURVEYS, MA	---	1,250 *
TULLY LAKE, MA	1,323	1,323
WEST HILL DAM, MA	1,049	1,049
WESTVILLE LAKE, MA	861	861
MICHIGAN		
ALPENA HARBOR, MI	---	5 *
CHANNELS IN LAKE ST CLAIR, MI	---	201 *

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

	BUDGET REQUEST	FINAL BILL
CHEBOYGAN HARBOR, MI	---	6 *
DETROIT RIVER, MI	---	7,228 *
GRAND HAVEN HARBOR AND GRAND RIVER, MI	---	48 *
HOLLAND HARBOR, MI	---	16 *
INSPECTION OF COMPLETED WORKS, MI	---	244 ~
KEWEENAW WATERWAY, MI	10	973 *
LUDINGTON HARBOR, MI	---	7 *
MANISTEE HARBOR, MI	---	11 *
MANISTIQUE HARBOR, MI	---	7 *
MARQUETTE HARBOR, MI	---	5 *
MENOMINEE HARBOR, MI and WI	---	5 *
MONROE HARBOR, MI	---	6 *
MUSKEGON HARBOR, MI	---	10 *
ONTONAGON HARBOR, MI	---	11 *
PRESQUE ISLE HARBOR, MI	---	5 *
PROJECT CONDITION SURVEYS, MI	---	799 *
ROUGE RIVER, MI	---	1,132 *
SAGINAW RIVER, MI	---	3,057 *
SEBEWAING RIVER, MI	137	137
ST. CLAIR RIVER, MI	---	786 *
ST. JOSEPH HARBOR, MI	---	17 *
ST. MARYS RIVER, MI	3,285	31,115 *
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, MI	---	2,975 ~
MINNESOTA		
BIGSTONE LAKE AND WHETSTONE RIVER, MN and SD	266	266
DULUTH-SUPERIOR HARBOR, MN and WI	358	5,458 *
INSPECTION OF COMPLETED WORKS, MN	---	359 ~
LAC QUI PARLE LAKES, MINNESOTA RIVER, MN	951	951
MINNESOTA RIVER, MN	---	260 *
MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVP PORTION), MN	85,552	85,552
ORWELL LAKE, MN	805	805
PROJECT CONDITION SURVEYS, MN	---	100 *
RED LAKE RESERVOIR, MN	339	339
RESERVOIRS AT HEADWATERS OF MISSISSIPPI RIVER, MN	4,366	4,366
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, MN	---	558 *
TWO HARBORS, MN	---	16 *
MISSISSIPPI		
BILOXI HARBOR, MS	---	1,993 *
EAST FORK, TOMBIGBEE RIVER, MS	290	290
GULFPORT HARBOR, MS	---	4,526 *
INSPECTION OF COMPLETED WORKS, MS	---	70 ~
MOUTH OF YAZOO RIVER, MS	---	30 *

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

	BUDGET REQUEST	FINAL BILL
OKATIBBEE LAKE, MS	2,252	2,252
PASCAGOULA HARBOR, MS	---	6,287 *
PEARL RIVER, MS and LA	140	140
PROJECT CONDITION SURVEYS, MS	---	155 *
ROSEDALE HARBOR, MS	---	35 *
YAZOO RIVER, MS	---	20 *
MISSOURI		
CARUTHERSVILLE HARBOR, MO	---	15 *
CLARENCE CANNON DAM AND MARK TWAIN LAKE, MO	7,048	7,048
CLEARWATER LAKE, MO	3,386	3,386
HARRY S. TRUMAN DAM AND RESERVOIR, MO	11,809	11,809
INSPECTION OF COMPLETED WORKS, MO	---	1,214 ~
LITTLE BLUE RIVER LAKES, MO	2,397	2,397
LONG BRANCH LAKE, MO	961	961
MISSISSIPPI RIVER BETWEEN THE OHIO AND MISSOURI RIVERS (REG WORKS), MO and IL	29,661	29,661
NEW MADRID COUNTY HARBOR, MO	---	10 *
NEW MADRID HARBOR, MO (MILE 889)	---	15 *
POMME DE TERRE LAKE, MO	2,993	2,993
PROJECT CONDITION SURVEYS, MO	---	5 *
SCHEDULING OF RESERVOIR OPERATIONS, MO	---	167 ~
SMITHVILLE LAKE, MO	1,853	1,853
SOUTHEAST MISSOURI PORT, MISSISSIPPI RIVER, MO	---	1 *
STOCKTON LAKE, MO	6,015	6,015
TABLE ROCK LAKE, MO and AR	10,267	10,267
MONTANA		
INSPECTION OF COMPLETED WORKS, MT	---	184 ~
FT PECK DAM AND LAKE, MT	5,308	5,308
LIBBY DAM, MT	1,789	1,789
SCHEDULING OF RESERVOIR OPERATIONS, MT	---	126 ~
NEBRASKA		
GAVINS POINT DAM, LEWIS AND CLARK LAKE, NE and SD	10,003	10,003
HARLAN COUNTY LAKE, NE	2,510	2,510
INSPECTION OF COMPLETED WORKS, NE	---	773 ~
MISSOURI RIVER - KENSLERS BEND, NE TO SIOUX CITY, IA	107	107
PAPILLION CREEK AND TRIBUTARIES LAKES, NE	818	818
SALT CREEK AND TRIBUTARIES, NE	1,159	1,159
NEVADA		
INSPECTION OF COMPLETED WORKS, NV	---	110 ~

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

	BUDGET REQUEST	FINAL BILL
MARTIS CREEK LAKE, NV and CA	1,836	1,836
PINE AND MATHEWS CANYONS DAMS, NV	671	671
NEW HAMPSHIRE		
BLACKWATER DAM, NH	955	955
EDWARD MACDOWELL LAKE, NH	955	955
FRANKLIN FALLS DAM, NH	1,346	1,346
HOPKINTON-EVERETT LAKES, NH	2,743	2,743
INSPECTION OF COMPLETED WORKS, NH	---	199 ~
OTTER BROOK LAKE, NH	1,014	1,014
PROJECT CONDITION SURVEYS, NH	---	350 *
SURRY MOUNTAIN LAKE, NH	1,973	1,973
NEW JERSEY		
BARNEGAT INLET, NJ	---	9 *
COLD SPRING INLET, NJ	---	400 *
DELAWARE RIVER, PHILADELPHIA TO THE SEA, NJ, PA and DE	---	22,546 *
INSPECTION OF COMPLETED WORKS, NJ	---	320 ~
MANASQUAN RIVER, NJ	---	2 *
NEW JERSEY INTRACOASTAL WATERWAY, NJ	---	1,245 *
NEWARK BAY, HACKENSACK AND PASSAIC RIVERS, NJ	---	13,275 *
PASSAIC RIVER FLOOD WARNING SYSTEMS, NJ	450	450
PROJECT CONDITION SURVEYS, NJ	---	2,250 *
SALEM RIVER, NJ	---	100 *
SHARK RIVER, NJ	---	1,100 *
NEW MEXICO		
ABIQUIU DAM, NM	3,391	3,391
COCHITI LAKE, NM	3,326	3,326
CONCHAS LAKE, NM	2,755	2,755
GALISTEO DAM, NM	689	689
INSPECTION OF COMPLETED WORKS, NM	---	563 ~
JEMEZ CANYON DAM, NM	780	780
SANTA ROSA DAM AND LAKE, NM	1,374	1,374
SCHEDULING OF RESERVOIR OPERATIONS, NM	---	225 ~
TWO RIVERS DAM, NM	1,140	1,140
UPPER RIO GRANDE WATER OPERATIONS MODEL, NM	945	945
NEW YORK		
ALMOND LAKE, NY	505	505
ARKPORT DAM, NY	346	346
BLACK ROCK CHANNEL AND TONAWANDA HARBOR, NY	---	6,547 *
BUFFALO HARBOR, NY	---	1,208 *

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

	BUDGET REQUEST	FINAL BILL
EAST SIDNEY LAKE, NY	1,053	1,053
FIRE ISLAND INLET TO JONES INLET, NY	---	25 *
HUDSON RIVER, NY (MAINT)	---	10,210 *
HUDSON RIVER, NY (O and C)	---	2,950 *
INSPECTION OF COMPLETED WORKS, NY	---	1,416 ~
MOUNT MORRIS DAM, NY	3,620	3,620
NEW YORK AND NEW JERSEY CHANNELS, NY	---	13,500 *
NEW YORK AND NEW JERSEY HARBOR, NY and NJ	---	18,300 *
NEW YORK HARBOR, NY	---	7,425 *
NEW YORK HARBOR, NY and NJ (DRIFT REMOVAL)	---	11,929 *
NEW YORK HARBOR, NY (PREVENTION OF OBSTRUCTIVE DEPOSITS)	---	1,696 *
OSWEGO HARBOR, NY	---	6 *
PROJECT CONDITION SURVEYS, NY	---	2,439 *
ROCHESTER HARBOR, NY	---	1,300 *
SOUTHERN NEW YORK FLOOD CONTROL PROJECTS, NY	960	960
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, NY	---	795 *
WHITNEY POINT LAKE, NY	1,167	1,167
NORTH CAROLINA		
ATLANTIC INTRACOASTAL WATERWAY (AIWW), NC	3,625	3,625
B. EVERETT JORDAN DAM AND LAKE, NC	2,546	2,546
CAPE FEAR RIVER ABOVE WILMINGTON, NC	171	496 *
FALLS LAKE, NC	2,991	2,991
INSPECTION OF COMPLETED WORKS, NC	---	210 ~
MANTEO (SHALLOWBAG) BAY, NC	---	1,286 *
MOREHEAD CITY HARBOR, NC	---	7,055 *
NEW RIVER INLET, NC	---	30 *
PROJECT CONDITION SURVEYS, NC	---	700 *
ROLLINSON CHANNEL, NC	---	380 *
SILVER LAKE HARBOR, NC	---	560 *
W. KERR SCOTT DAM AND RESERVOIR, NC	3,049	3,049
WILMINGTON HARBOR, NC	---	15,080 *
NORTH DAKOTA		
BOWMAN HALEY LAKE, ND	240	240
GARRISON DAM, LAKE SAKAKAWEA, ND	15,305	15,305
HOMME LAKE, ND	292	292
INSPECTION OF COMPLETED WORKS, ND	---	451 ~
LAKE ASHTABULA AND BALDHILL DAM, ND	1,552	1,552
PIPESTEM LAKE, ND	638	638
SCHEDULING OF RESERVOIR OPERATIONS, ND	---	124 ~
SOURIS RIVER, ND	387	387
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, ND	---	81 ~

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

	BUDGET REQUEST	FINAL BILL
OHIO		
ALUM CREEK LAKE, OH	1,931	1,931
ASHTABULA HARBOR, OH	---	2,293 *
BERLIN LAKE, OH	3,178	3,178
CAESAR CREEK LAKE, OH	2,250	2,250
CLARENCE J. BROWN DAM AND RESERVOIR, OH	1,565	1,565
CLEVELAND HARBOR, OH	---	8,761 *
CONNEAUT HARBOR, OH	---	911 *
DEER CREEK LAKE, OH	1,859	1,859
DELAWARE LAKE, OH	2,938	2,938
DILLON LAKE, OH	3,439	3,439
FAIRPORT HARBOR, OH	---	7 *
HURON HARBOR, OH	---	1,323 *
INSPECTION OF COMPLETED WORKS, OH	---	913 ~
LORAIN HARBOR, OH	---	8 *
MASSILLON LOCAL PROTECTION PROJECT, OH	305	305
MICHAEL J. KIRWAN DAM AND RESERVOIR, OH	1,744	1,744
MOSQUITO CREEK LAKE, OH	1,969	1,969
MUSKINGUM RIVER LAKES, OH	12,791	12,791
NORTH BRANCH KOKOSING RIVER LAKE, OH	641	641
OHIO-MISSISSIPPI FLOOD CONTROL, OH	1,482	1,482
PAINT CREEK LAKE, OH	2,197	2,197
PROJECT CONDITION SURVEYS, OH	---	328 *
ROSEVILLE LOCAL PROTECTION PROJECT, OH	52	52
SANDUSKY HARBOR, OH	---	1,065 *
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, OH	---	305 *
TOLEDO HARBOR, OH	---	5,738 *
TOM JENKINS DAM, OH	1,316	1,316
WEST FORK OF MILL CREEK LAKE, OH	983	983
WILLIAM H. HARSHA LAKE, OH	1,752	1,752
OKLAHOMA		
ARCADIA LAKE, OK	558	558
BIRCH LAKE, OK	855	855
BROKEN BOW LAKE, OK	2,674	2,674
CANTON LAKE, OK	2,147	2,147
COPAN LAKE, OK	1,593	1,593
EUFAULA LAKE, OK	6,264	6,264
FORT GIBSON LAKE, OK	5,073	5,073
FORT SUPPLY LAKE, OK	1,156	1,156
GREAT SALT PLAINS LAKE, OK	443	443
HEYBURN LAKE, OK	971	971
HUGO LAKE, OK	2,180	2,180
HULAH LAKE, OK	900	900
INSPECTION OF COMPLETED WORKS, OK	---	275 ~

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

	BUDGET REQUEST	FINAL BILL
KAW LAKE, OK	2,375	2,375
KEYSTONE LAKE, OK	4,916	4,916
MCCLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM, OK	25,336	25,336
OOLOGAH LAKE, OK	2,841	2,841
OPTIMA LAKE, OK	60	60
PENSACOLA RESERVOIR, LAKE OF THE CHEROKEES, OK	153	153
PINE CREEK LAKE, OK	1,497	1,497
SARDIS LAKE, OK	1,459	1,459
SCHEDULING OF RESERVOIR OPERATIONS, OK	---	2,000 ~
SKIATOOK LAKE, OK	2,547	2,547
TENKILLER FERRY LAKE, OK	4,782	4,782
WAURIKA LAKE, OK	1,635	1,635
WISTER LAKE, OK	1,005	1,005
OREGON		
APPLEGATE LAKE, OR	1,391	1,391
BLUE RIVER LAKE, OR	1,346	1,346
BONNEVILLE LOCK AND DAM, OR and WA	1,889	7,536 *
CHETCO RIVER, OR	---	1,024 *
COLUMBIA RIVER AT THE MOUTH, OR and WA	---	19,054 *
COOS BAY, OR	---	7,524 *
COQUILLE RIVER, OR	---	563 *
COTTAGE GROVE LAKE, OR	2,279	2,279
COUGAR LAKE, OR	2,436	2,436
DEPOE BAY, OR	---	51 *
DETROIT LAKE, OR	1,724	1,724
DORENA LAKE, OR	1,249	1,249
ELK CREEK LAKE, OR	355	355
FALL CREEK LAKE, OR	1,589	1,589
FERN RIDGE LAKE, OR	2,158	2,158
GREEN PETER - FOSTER LAKES, OR	2,506	2,506
HILLS CREEK LAKE, OR	1,425	1,425
INSPECTION OF COMPLETED WORKS, OR	---	923 ~
JOHN DAY LOCK AND DAM, OR and WA	6,451	6,451
LOOKOUT POINT LAKE, OR	2,567	2,567
LOST CREEK LAKE, OR	4,542	4,542
MCNARY LOCK AND DAM, OR and WA	15,921	15,921
NEHALEM BAY, OR	---	20 *
PROJECT CONDITION SURVEYS, OR	---	477 *
ROGUE RIVER AT GOLD BEACH, OR	---	116 *
SCHEDULING OF RESERVOIR OPERATIONS, OR	---	101 ~
SIUSLAW RIVER, OR	---	15 *
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, OR	---	10,700 *
UMPQUA RIVER, OR	---	1,074 *
WILLAMETTE RIVER AT WILLAMETTE FALLS, OR	65	65
WILLAMETTE RIVER BANK PROTECTION, OR	155	155

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

	BUDGET REQUEST	FINAL BILL
WILLOW CREEK LAKE, OR	783	783
YAQUINA BAY AND HARBOR, OR	---	4,095 *
PENNSYLVANIA		
ALLEGHENY RIVER, PA	8,244	8,244
ALVIN R. BUSH DAM, PA	7,968	7,968
AYLESWORTH CREEK LAKE, PA	705	705
BELTZVILLE LAKE, PA	1,284	1,284
BLUE MARSH LAKE, PA	2,954	2,954
CONEMAUGH RIVER LAKE, PA	1,674	1,674
COWANESQUE LAKE, PA	2,257	2,257
CROOKED CREEK LAKE, PA	5,126	5,126
CURWENSVILLE LAKE, PA	1,215	1,215
DELAWARE RIVER, PHILADELPHIA TO TRENTON, PA and NJ	---	4,650 *
EAST BRANCH CLARION RIVER LAKE, PA	1,692	1,692
ERIE HARBOR, PA	---	1,618 *
FOSTER J. SAYERS DAM, PA	1,349	1,349
FRANCIS E. WALTER DAM AND RESERVOIR, PA	910	910
GENERAL EDGAR JADWIN DAM AND RESERVOIR, PA	381	381
INSPECTION OF COMPLETED WORKS, PA	---	959 ~
JOHNSTOWN, PA	2,109	2,109
KINZUA DAM AND ALLEGHENY RESERVOIR, PA	2,768	2,768
LOYALHANNA LAKE, PA	2,022	2,022
MAHONING CREEK LAKE, PA	1,691	1,691
MONONGAHELA RIVER, PA AND WV	18,150	18,150
OHIO RIVER LOCKS AND DAMS, PA, OH and WV	34,556	34,556
OHIO RIVER OPEN CHANNEL WORK, PA, OH and WV	826	826
PROJECT CONDITION SURVEYS, PA	---	174 *
PROMPTON LAKE, PA	559	559
PUNXSUTAWNEY, PA	121	121
RAYSTOWN LAKE, PA	8,124	8,124
SCHEDULING OF RESERVOIR OPERATIONS, PA	---	79 ~
SCHUYLKILL RIVER, PA	---	100 *
SHENANGO RIVER LAKE, PA	3,172	3,172
STILLWATER LAKE, PA	523	523
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, PA	---	120 *
TIOGA-HAMMOND LAKES, PA	5,406	5,406
TIONESTA LAKE, PA	5,631	5,631
UNION CITY LAKE, PA	725	725
WOODCOCK CREEK LAKE, PA	1,241	1,241
YORK INDIAN ROCK DAM, PA	1,241	1,241
YOUGHIOGHENY RIVER LAKE, PA and MD	2,869	2,869
PUERTO RICO		
INSPECTION OF COMPLETED WORKS, PR	---	126 ~

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

	BUDGET REQUEST	FINAL BILL
PROJECT CONDITION SURVEYS, PR	---	100 *
SAN JUAN HARBOR, PR	---	4,070 *
RHODE ISLAND		
FOX POINT HURRICANE BARRIER, RI	680	680
GREAT SALT POND, BLOCK ISLAND, RI	---	350 *
INSPECTION OF COMPLETED WORKS, RI	---	51 ~
PROJECT CONDITION SURVEYS, RI	---	500 *
WOONSOCKET LOCAL PROTECTION PROJECT, RI	596	596
SOUTH CAROLINA		
ATLANTIC INTRACOASTAL WATERWAY (AIWW), SC	100	100
CHARLESTON HARBOR, SC	---	19,700 *
COOPER RIVER, CHARLESTON HARBOR, SC	---	3,931 *
INSPECTION OF COMPLETED WORKS, SC	---	65 ~
PROJECT CONDITION SURVEYS, SC	---	775 *
SOUTH DAKOTA		
BIG BEND DAM AND LAKE SHARPE, SD	9,989	9,989
COLD BROOK LAKE, SD	472	472
COTTONWOOD SPRINGS LAKE, SD	229	229
FORT RANDALL DAM, LAKE FRANCIS CASE, SD	11,795	11,795
INSPECTION OF COMPLETED WORKS, SC	---	209 ~
LAKE TRAVERSE, SD and MN	640	640
OAHE DAM AND LAKE OAHE, SD	13,148	13,148
SCHEDULING OF RESERVOIR OPERATIONS, SD	---	144 ~
TENNESSEE		
CENTER HILL LAKE, TN	7,765	7,765
CHEATHAM LOCK AND DAM, TN	12,702	12,702
CORDELL HULL DAM AND RESERVOIR, TN	7,983	7,983
DALE HOLLOW LAKE, TN	7,889	7,889
INSPECTION OF COMPLETED WORKS, TN	---	137 ~
J. PERCY PRIEST DAM AND RESERVOIR, TN	5,526	5,526
NORTHWEST TENNESSEE REGIONAL HARBOR, TN	---	15 *
OLD HICKORY LOCK AND DAM, TN	13,351	13,351
PROJECT CONDITION SURVEYS, TN	---	5 *
TENNESSEE RIVER, TN	22,380	22,380
WOLF RIVER HARBOR, TN	---	655 *
TEXAS		
AQUILLA LAKE, TX	1,814	1,814

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

	BUDGET REQUEST	FINAL BILL
BARDWELL LAKE, TX	2,662	2,662
BELTON LAKE, TX	4,494	4,494
BENBROOK LAKE, TX	3,566	3,566
BRAZOS ISLAND HARBOR, TX	---	3,000 *
BUFFALO BAYOU AND TRIBUTARIES, TX	3,433	3,433
CANYON LAKE, TX	3,897	3,897
CHANNEL TO HARLINGEN, TX	---	1,100 *
CORPUS CHRISTI SHIP CHANNEL, TX	---	4,600 *
DENISON DAM, LAKE TEXOMA, TX	8,483	8,483
ESTELLINE SPRINGS EXPERIMENTAL PROJECT, TX	39	39
FERRELLS BRIDGE DAM - LAKE O' THE PINES, TX	5,607	5,607
FREEPORT HARBOR, TX	---	8,500 *
GALVESTON HARBOR AND CHANNEL, TX	---	10,400 *
GIWW, CHANNEL TO VICTORIA, TX	---	50 *
GULF INTRACOASTAL WATERWAY, CHOCOLATE BAYOU, TX	---	50 *
GRANGER LAKE, TX	2,582	2,582
GRAPEVINE LAKE, TX	3,326	3,326
GULF INTRACOASTAL WATERWAY, TX	24,200	24,200
HORDS CREEK LAKE, TX	1,727	1,727
HOUSTON SHIP CHANNEL, TX	---	22,300 *
INSPECTION OF COMPLETED WORKS, TX	---	1,748 ~
JIM CHAPMAN LAKE, TX	1,907	1,907
JOE POOL LAKE, TX	2,478	2,478
LAKE KEMP, TX	350	350
LAVON LAKE, TX	3,683	3,683
LEWISVILLE DAM, TX	3,813	3,813
MATAGORDA SHIP CHANNEL, TX	---	4,450 *
NAVARRO MILLS LAKE, TX	3,877	3,877
NORTH SAN GABRIEL DAM AND LAKE GEORGETOWN, TX	3,026	3,026
O. C. FISHER DAM AND LAKE, TX	1,686	1,686
PAT MAYSE LAKE, TX	1,251	1,251
PROCTOR LAKE, TX	2,367	2,367
PROJECT CONDITION SURVEYS, TX	---	325 *
RAY ROBERTS LAKE, TX	1,683	1,683
SABINE - NECHES WATERWAY, TX	---	10,625 *
SAM RAYBURN DAM AND RESERVOIR, TX	10,668	10,668
SCHEDULING OF RESERVOIR OPERATIONS, TX	---	401 ~
SOMERVILLE LAKE, TX	3,538	3,538
STILLHOUSE HOLLOW DAM, TX	3,491	3,491
TEXAS CITY SHIP CHANNEL, TX	---	350 *
TOWN BLUFF DAM, B. A. STEINHAGEN LAKE AND ROBERT DOUGLAS WILLIS HYDROPOWER PROJECT, TX	3,967	3,967
WACO LAKE, TX	4,814	4,814
WALLISVILLE LAKE, TX	2,605	2,605
WHITNEY LAKE, TX	6,813	6,813
WRIGHT PATMAN DAM AND LAKE, TX	4,223	4,223

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

	BUDGET REQUEST	FINAL BILL
UTAH		
INSPECTION OF COMPLETED WORKS, UT	---	145 ~
SCHEDULING OF RESERVOIR OPERATIONS, UT	---	400 ~
VERMONT		
BALL MOUNTAIN LAKE, VT	872	872
INSPECTION OF COMPLETED WORKS, VT	---	162 ~
NORTH HARTLAND LAKE, VT	988	988
NORTH SPRINGFIELD LAKE, VT	962	962
TOWNSHEND LAKE, VT	968	968
UNION VILLAGE DAM, VT	855	855
VIRGIN ISLANDS		
INSPECTION OF COMPLETED WORKS, VI	---	34 ~
PROJECT CONDITION SURVEYS, VI	---	50 *
VIRGINIA		
ATLANTIC INTRACOASTAL WATERWAY - ALBEMARLE CHESAPEAKE CANAL ROUTE, VA	685	685
ATLANTIC INTRACOASTAL WATERWAY - DISMAL SWAMP CANAL ROUTE, VA	1,262	1,262
GATHRIGHT DAM AND LAKE MOOMAW, VA	3,018	3,018
HAMPTON ROADS DRIFT REMOVAL, VA	---	2,012 *
HAMPTON ROADS, PREVENTION OF OBSTRUCTIVE DEPOSITS, VA	---	280 *
INSPECTION OF COMPLETED WORKS, VA	---	161 ~
JAMES RIVER CHANNEL, VA	---	420 *
JOHN H. KERR LAKE, VA and NC	10,873	10,873
JOHN W. FLANNAGAN DAM AND RESERVOIR, VA	2,523	2,523
NORFOLK HARBOR, VA	---	13,160 *
NORTH FORK OF POUND RIVER LAKE, VA	964	964
PHILPOTT LAKE, VA	5,016	5,016
PROJECT CONDITION SURVEYS, VA	---	1,885 *
WATER AND ENVIRONMENTAL CERTIFICATIONS, VA	---	175 *
WASHINGTON		
CHIEF JOSEPH DAM, WA	606	606
COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA and PORTLAND, OR	---	52,662 *
COLUMBIA RIVER AT BAKER BAY, WA	---	906 *
COLUMBIA RIVER BETWEEN VANCOUVER, WA AND THE DALLES, OR	---	1,001 *
EVERETT HARBOR AND SNOHOMISH RIVER, WA	---	2,228 *
GRAYS HARBOR, WA	---	11,789 *
HOWARD A. HANSON DAM, WA	3,959	3,959

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

	BUDGET REQUEST	FINAL BILL
ICE HARBOR LOCK AND DAM, WA	4,627	4,627
INSPECTION OF COMPLETED WORKS, WA	---	966 ~
LAKE WASHINGTON SHIP CANAL, WA	1,257	9,279 *
LITTLE GOOSE LOCK AND DAM, WA	2,687	2,687
LOWER GRANITE LOCK AND DAM, WA	3,458	3,458
LOWER MONUMENTAL LOCK AND DAM, WA	2,769	2,769
MILL CREEK LAKE, WA	2,245	2,245
MOUNT ST. HELENS SEDIMENT CONTROL, WA	373	373
MUD MOUNTAIN DAM, WA	5,819	5,819
PROJECT CONDITION SURVEYS, WA	---	892 *
PUGET SOUND AND TRIBUTARY WATERS, WA	---	1,070 *
QUILLAYUTE RIVER, WA	---	257 *
SEATTLE HARBOR, WA	---	1,918 *
SCHEDULING OF RESERVOIR OPERATIONS, WA	---	469 ~
STILLAGUAMISH RIVER, WA	299	299
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, WA	---	66 *
TACOMA-PUYALLUP RIVER, WA	214	214
THE DALLES LOCK AND DAM, WA and OR	4,227	4,227
WEST VIRGINIA		
BEECH FORK LAKE, WV	1,671	1,671
BLUESTONE LAKE, WV	2,305	2,305
BURNSVILLE LAKE, WV	2,877	2,877
EAST LYNN LAKE, WV	2,660	2,660
ELKINS, WV	79	79
INSPECTION OF COMPLETED WORKS, WV	---	558 ~
KANAWHA RIVER LOCKS AND DAMS, WV	10,982	10,982
OHIO RIVER LOCKS AND DAMS, WV, KY and OH	37,008	37,008
OHIO RIVER OPEN CHANNEL WORK, WV, KY and OH	2,604	2,604
R. D. BAILEY LAKE, WV	2,490	2,490
STONEWALL JACKSON LAKE, WV	1,741	1,741
SUMMERSVILLE LAKE, WV	3,258	3,258
SUTTON LAKE, WV	2,680	2,680
TYGART LAKE, WV	1,723	1,723
WISCONSIN		
EAU GALLE RIVER LAKE, WI	878	878
FOX RIVER, WI	3,344	3,344
GREEN BAY HARBOR, WI	---	3,084 *
INSPECTION OF COMPLETED WORKS, WI	---	77 ~
KEWAUNEE HARBOR, WI	---	25 *
MANITOWOC HARBOR, WI	---	80 *
MILWAUKEE HARBOR, WI	---	11 *
PROJECT CONDITION SURVEYS, WI	---	345 *
STURGEON BAY HARBOR AND LAKE MICHIGAN SHIP CANAL, WI	18	1,534 *

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

	BUDGET REQUEST	FINAL BILL
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, WI	---	525 *
WYOMING		
INSPECTION OF COMPLETED WORKS, WY	---	107 ~
JACKSON HOLE LEVEES, WY	1,002	1,002
SCHEDULING OF RESERVOIR OPERATIONS, WY	---	109 ~
SUBTOTAL, PROJECTS LISTED UNDER STATES	1,831,955	2,743,497
REMAINING ITEMS		
ADDITIONAL FUNDING FOR ONGOING WORK		
NAVIGATION MAINTENANCE	---	40,156
DEEP-DRAFT HARBOR AND CHANNEL	---	580,000
DONOR AND ENERGY TRANSFER PORTS	---	50,000
INLAND WATERWAYS	---	60,000
SMALL, REMOTE, OR SUBSISTENCE NAVIGATION	---	65,000
OTHER AUTHORIZED PROJECT PURPOSES	---	60,000
AQUATIC NUISANCE CONTROL RESEARCH	675	17,000
ASSET MANAGEMENT/FACILITIES AND EQUIP MAINTENANCE (FEM)	3,300	7,000
CIVIL WORKS WATER MANAGEMENT SYSTEM (CWWMS)	8,000	8,000
COASTAL INLET RESEARCH PROGRAM	2,500	10,975
COASTAL OCEAN DATA SYSTEM (CODS)	2,250	7,500
CULTURAL RESOURCES	900	900
CYBERSECURITY	4,000	4,000
DREDGE MCFARLAND READY RESERVE	---	11,300 *
DREDGE WHEELER READY RESERVE	---	14,500 *
DREDGING DATA AND LOCK PERFORMANCE MONITORING SYSTEM	1,120	3,570
DREDGING OPERATIONS AND ENVIRONMENTAL RESEARCH (DOER)	5,250	7,500
DREDGING OPERATIONS TECHNICAL SUPPORT PROGRAM (DOTS)	2,450	6,500
EARTHQUAKE HAZARDS REDUCTION PROGRAM	300	300
ENGINEERING WITH NATURE	---	12,500
FACILITY PROTECTION	4,200	4,200
FISH & WILDLIFE OPERATING FISH HATCHERY REIMBURSEMENT	5,400	5,400
HARBOR MAINTENANCE FEE DATA COLLECTION	---	795 *
INLAND WATERWAY NAVIGATION CHARTS	4,350	4,350
INSPECTION OF COMPLETED FEDERAL FLOOD CONTROL PROJECTS	18,000	23,000
INSPECTION OF COMPLETED WORKS	32,307	--- ^
MONITORING OF COMPLETED NAVIGATION PROJECTS	3,800	10,000
NATIONAL COASTAL MAPPING PROGRAM	5,000	11,300
NATIONAL DAM SAFETY PROGRAM (PORTFOLIO RISK ASSESSMENT)	10,500	10,500
NATIONAL EMERGENCY PREPAREDNESS PROGRAM (NEPP)	5,000	5,000
NATIONAL (LEVEE) FLOOD INVENTORY	4,500	4,500
NATIONAL (MULTIPLE PROJECT) NATURAL RESOURCES MANAGEMENT ACTIVITIES	3,500	3,500

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

	BUDGET REQUEST	FINAL BILL
NATIONAL PORTFOLIO ASSESSMENT FOR REALLOCATIONS	500	500
OPTIMIZATION TOOLS FOR NAVIGATION	392	392
PERFORMANCE-BASED BUDGETING SUPPORT PROGRAM	2,000	4,500
RECREATION MANAGEMENT SUPPORT PROGRAM	1,450	1,450
REGIONAL SEDIMENT MANAGEMENT	3,500	8,500
RESPONSE TO CLIMATE CHANGE AT CORPS PROJECTS	---	5,000
REVIEW OF NON-FEDERAL ALTERATIONS OF CIVIL WORKS PROJECTS (SECTION 408)	9,000	9,000
SCHEDULING OF RESERVOIR OPERATIONS	8,331	--- ^
SOIL MOISTURE AND SNOWPACK MONITORING	---	5,000
STEWARDSHIP SUPPORT PROGRAM	900	900
SUSTAINABLE RIVERS PROGRAM (SRP)	500	5,000
VETERAN'S CURATION PROGRAM AND COLLECTIONS MANAGEMENT	5,500	6,500
WATERBORNE COMMERCE STATISTICS	4,670	4,670
WATER OPERATIONS TECHNICAL SUPPORT (WOTS)	500	5,500
SUBTOTAL, REMAINING ITEMS	164,545	1,106,158
TOTAL, OPERATION AND MAINTENANCE	1,996,500	3,849,655

Note: Amounts rounded to the nearest thousand.

**Includes funds requested in other accounts.*

^Funded under projects listed under states.

~Requested in remaining items.

Updated Capability.—The agreement adjusts some project-specific allocations downward from the budget request based on updated information regarding the amount of work that could be accomplished in fiscal year 2021.

Additional Funding for Ongoing Work.—Of the additional funding provided in this account for other authorized project purposes, the Corps shall allocate not less than \$2,000,000 for efforts to combat invasive mussels at Corps-owned reservoirs.

When allocating the additional funding provided in this account, the Corps shall consider giving priority to the following:

1. ability to complete ongoing work maintaining authorized depths and widths of harbors and shipping channels (including small, remote, or subsistence harbors), including where contaminated sediments are present;
2. ability to address critical maintenance backlog;
3. presence of the U.S. Coast Guard;
4. extent to which the work will enhance national, regional, or local economic development, including domestic manufacturing capacity;
5. extent to which the work will promote job growth or international competitiveness;
6. number of jobs created directly by the funded activity;
7. ability to obligate the funds allocated within the calendar year;
8. ability to complete the project, separable element, project phase, or useful increment of work within the funds allocated;
9. ability to address hazardous barriers to navigation due to shallow channels;
10. dredging projects that would provide supplementary benefits to tributaries and waterways in close proximity to ongoing island replenishment projects;
11. risk of imminent failure or closure of the facility;
12. extent to which the work will promote recreation-based benefits, including those created by recreational boating;
13. improvements to federal breakwaters and jetties where additional work will improve the safety of navigation and stabilize infrastructure to prevent continued deterioration;
14. for small, remote, and subsistence harbors,
 - a. low-use ports with unexpected levels of deterioration since their last dredging; and
 - b. projects with public safety concerns; and
15. for harbor maintenance activities,
 - a. total tonnage handled;
 - b. total exports;
 - c. total imports;
 - d. dollar value of cargo handled;
 - e. energy infrastructure and national security needs served;

- f. designation as strategic seaports;
- g. maintenance of dredge disposal activities;
- h. lack of alternative means of freight movement;
- i. savings over alternative means of freight movement; and
- j. improvements to dredge disposal facilities that will result in long-term savings, including a reduction in regular maintenance.

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 submissions. The Corps is directed to fully execute subsection (c) of 33 U.S.C. 2238c not later than 90 days after enactment of this Act.

Concerns persist that the administration's criteria for navigation maintenance do not allow small, remote, or subsistence harbors and waterways to properly compete for scarce navigation maintenance funds. The Corps is directed to revise the criteria used for determining which navigation projects are funded in order to develop a reasonable and equitable allocation under this account. The agreement supports including criteria to evaluate the economic impact that these projects provide to local and regional economies.

Aquatic Nuisance Control Research.—Harmful Algal Blooms [HABs] continue to threaten local communities, ecosystems, human health, drinking water sources, and local outdoor economies across the nation. These algae overgrowths produce dangerous toxins in fresh and marine waters that can sicken or kill people and animals, create dead zones, and raise treatment costs for drinking water. The devastating effects of HABs occur across multiple ecoregions from large freshwater lakes like Lake Erie in the Great Lakes, the Finger Lakes in New York, and Lake Okeechobee in Florida, to large inland waterways like the Ohio River where a 2015 event persisted for over a month involving over 700 miles of waterway.

The recommendation provides \$4,000,000 to supplement activities related to harmful algal blooms and directs the Corps to target freshwater ecosystems. The recommendation also provides \$3,500,000 to supplement activities related to harmful algal blooms and directs the Corps to work collaboratively with appropriate university partners to address harmful algal blooms formation, detection, and remediation to enhance protection of vital U.S. water resources. There is awareness of the need to develop next generation ecological models to maintain inland and intracoastal waterways and the agreement provides \$7,325,000 for this purpose. The Corps shall submit to the Committee not later than 90 days after enactment of this Act a report on these activities.

Not later than 180 days after enactment of this Act, the Corps shall develop a comprehensive research plan for addressing the various and abundant HAB-related research needs. Included in this plan shall be a scope for each activity identified; the required annual funding needs and timeline to complete each research activity; how this research will provide specific value to the Corps' mission; how the Corps will balance needs across multiple regions and system types; and what opportunities will be available to partner with academia, outside organizations, and other federal agencies, where appropriate. Not later than 90 days after enactment of this Act, the Corps shall brief the Committees on Appropriations of both Houses of Congress on the status of this plan.

Additional funding recommended in this remaining item is to supplement and advance Corps activities to address HABs and develop the comprehensive plan. Within these funds, the Corps is encouraged to continue investigating successful methods for combatting HABs; investigate harmful algal blooms across multiple ecoregions to predict HAB occurrence and toxicity, including in riverine ecosystems; 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 the nation's water resources; facilitate collaboration with university partners to assess the impacts of environmental triggers in riverine ecosystems to advance prediction, avoidance, and remediation efforts for harmful algal blooms; and improve early warning capabilities, which may include the use of UAS/drones to detect and monitor HABs.

Asset Management/FEM.—The recommendation provides \$2,000,000 above the request for research on novel approaches to repair and maintenance practices that will increase civil infrastructure intelligence and resilience. The agreement reiterates House direction on a briefing requirement.

The agreement includes \$1,000,000 in additional funding to continue the review of its inventory as required by section 6002. Additional funding is provided to continue to assess the inventory of the structural condition of federal breakwaters and jetties protecting harbors and inland harbors. The Corps shall brief the Committees on how much of this work has been accomplished, a timeline for completion of the inventory and preliminary cost estimates for federal breakwaters and jetties listed in poor or critical condition, not later than 60 days after enactment of this Act.

Funds are also included to develop new approaches in materials research, mechanical engineering, manufacturing that leverages integrated advances in novel computational materials engineering, atomic-scale materials physics, data science, and additive manufacturing to transform the maintenance and repair process, including the ability to remotely rehabilitate infrastructure.

Asset Management/FEM, Infrastructure Resilience—The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on opportunities to research novel repair and maintenance approaches that will increase Civil Works infrastructure intelligence and resilience.

Cape Cod Canal Bridges.—The agreement recognizes the urgent need and magnitude of this project, and encourages the Corps to continue supporting the Commonwealth of Massachusetts in efforts to develop a strategy to replace the bridges based on the findings of the March 2020 Cape Cod Canal Highway Bridges Major Rehabilitation Evaluation Report. The Corps is reminded that this project is eligible to compete for additional funding provided in this account.

Central Louisiana Ecosystem Protection and Restoration Task Force.—The Corps is encouraged to establish the Task Force authorized by section 7004 of the Water Resources Development Act of 2007 to improve coordination of ecosystem restoration in the Louisiana Coastal Area.

Coastal Inlet Research Program.—The agreement includes additional funding for the Corps-led, multi-university effort to identify engineering frameworks to address coastal resilience needs; to develop adaptive pathways that lead to coastal resilience; that measure the coastal forces that lead to infrastructure damage and erosion during extreme storm events; and to improve coupling of terrestrial and coastal models. Additional funding is also provided for the Corps to continue work with the National Oceanic and Atmospheric Administration's National Water Center on protecting the Nation's water resources.

Coos Bay, Oregon Jetties.—The Coos Bay North Jetty is losing 20 feet a year and has receded more than 750 feet since its construction and the channel condition is degraded, which is impeding the U.S. Coast Guard's ability to carry out search and rescue missions. The Corps is reminded that these much-needed improvements are eligible to compete for additional funding provided in this account.

Debris Removal.—The Corps reminded that ongoing bridge removal projects are eligible to compete for additional funding provided in this account. The Corps is also encouraged to consider removing other pilings and obstructions in close proximity to the bridge, and in or adjacent to the federal navigation channel pursuant to this authority when removing bridges and bridge pilings.

Dredging Operations Technical Support Program.—Additional funding is included for the further development of the INAV platform related to the operation and maintenance of the U.S. Marine Transportation System.

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 sections 210(c)(3) and 210(d)(1)(B)(ii) of WRDA 1986.

Engineering With Nature.— The agreement includes \$12,500,000 as a new remaining item in this account to support the Corps' Engineering with Nature (EWN) initiative. With the funds recommended, the Corps is encouraged to continue collaboration across research programs on nature-based infrastructure.

The agreement provides \$5,000,000 to support ongoing research and advance work with university partners to develop standards, design guidance, and testing protocols to improve and standardize nature-based and hybrid infrastructure solutions.

The agreement also provides \$5,000,000 for research into natural infrastructure options focused on drought, flood-prone lands and post fire recovery areas in western landscapes as directed in the House report. The Corps is encouraged to leverage academic partners, state and local agencies, and non-profit organizations in the southwestern United States in this effort.

Additionally, the Corps is encouraged to expand the EWN initiative to support science and engineering practices that support long-term resilience and sustainability of water infrastructure and their supporting systems. Funding under this line item is intended for EWN activities having a national or regional scope or which benefit the Corps' broader execution of its mission areas. It is not intended to replace or preclude the appropriate use of EWN practices at districts using project-specific-funding, or work performed across other Corps programs that might involve EWN. The Corps is encouraged to identify EWN efforts in future budget requests.

Enhanced Options for Sand Acquisition for Beach Renourishment Projects.—The Corps is urged to provide states with guidance and recommendations to implement cost effective measures and planning for sand management.

Federal Breakwaters and Jetties.—The Corps is encouraged to continue progress towards revising its policy and thresholds related to major maintenance and major rehabilitation of federal jetties and breakwaters. The Corps shall brief the Committees on Appropriations of both Houses of Congress on this topic not later than 90 days after enactment of this Act.

Fish Hatchery Facilities.—The Corps is reminded that activities at mitigation fish hatcheries constructed, owned, or operated by the Corps that are necessary to provide support conditions suitable to rear and release fish needed to meet the Corps' mitigation responsibilities are eligible to compete for additional funding provided in this Act.

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.

Harmful Algal Bloom and Hypoxia Research and Control Act.—The agreement reiterates House direction on this topic.

Integrated Navigation Analysis and Systems Enhancements.—The agreement provides additional funds in the remaining item Dredging Data and Lock Performance Monitoring System and in the remaining item Dredging Operations Technical Support Program to continue work laying the foundation for prototype applications for machine learning techniques as it relates to sedimentation-dredging patterns, dredging operations trends, and lock operations, including enhancements to systems to provide additional analytical capabilities and integrates data across enterprise navigation systems.

Inspection of Completed Environmental Projects.—The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than 60 days after of enactment of this Act on the status of funds in the program, guidance the Corps provides to district offices on how to implement the program and share lessons-learned from inspections, and a five-year plan for funding for the program by state.

Invasive Mussels.—The agreement recognizes that dreissenid mussels, highly invasive species, threaten water delivery systems and hydroelectric facilities operated by the Corps. The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on how funds provided to date have been used for this purpose and a plan for any future needs.

Isle of Shoals North and Cape Arundel Dredged Material Placement Site.—It is understood that the EPA finalized the designation of the new Isles of Shoals North Disposal Site in September 2020, and the Corps is encouraged to use the new facility for placement of material dredged from southern Maine and New Hampshire.

Kennebec River Long-Term Maintenance Dredging.—There is continued support for Memorandum of Agreement signed in January 2020 denoting responsibilities between the Department of the Army and the Department of the Navy for the regular maintenance of the Kennebec River Federal Navigation Channel. Maintenance dredging of the Kennebec is essential to the safe passage of newly constructed Navy guided missile destroyers to the Atlantic Ocean. The Corps is directed to continue its collaboration with the Department of the Navy to ensure regular maintenance dredging of the Kennebec.

Keystone Lake, Oklahoma.—Northeast Oklahoma sees high amounts of rainfall during many spring seasons, oftentimes creating flooding concerns for residents and businesses in this region. This nearly annual occurrence is particularly problematic around Keystone Lake. Recreation areas that support the local economy can see closures ranging from several days or weeks to the entire recreation season, and residential roads can become impassable. To assist the local community and its economy, the Corps is encouraged to examine modifications that could be made to the management of Keystone Lake that would reduce the frequency and severity of flooding events. The Corps is directed to provide a briefing on possible actions to the Committees on Appropriations of both Houses of Congress not later than 60 days after enactment of this Act.

Lake Champlain-Gordon's Breakwater.—The Corps is reminded that the study pursuant to section 216 of the Flood Control Act of 1970 (Public Law 91-611) is eligible to compete for additional funding provided in this account to address necessary improvements to the Corps-owned Gordon's Landing breakwater on Lake Champlain. The Corps is encouraged to pursue the next phase of the project using applicable authorities. There is awareness that this structure is important spawning habitat for lake trout and the Corps is encouraged to consult with the U.S. Fish and Wildlife Service.

Levee Safety.— In fiscal year 2020, Congress provided \$15,000,000 to implement levee safety initiatives to meet the requirements under section 3016 of WRRDA. The Committee understands these funds are sufficient to complete Phase II activities. The additional funding provided for the Inspection of Completed Federal Flood Control Projects remaining item shall be used for the assessment of high risk federally authorized levees. Within 90 days of enactment of this act, the Corps shall brief the Committees on the status of these activities and activities associated with section 3016 of WRRDA, including any additional funding needs identified to complete and a timeline for implementation of the next phase.

Locks and Dams Levels of Service.—There remains concern about the level of service reductions and proposed level of service reductions at locks and dams along our nation's inland waterways and the adverse economic effects this has on impacted communities. The Corps is reminded that remote lock operations at locks and dams in the Ohio River System are eligible to compete for additional funding provided in this account.

Mississippi River Basin Coordination.—The Corps is urged to participate in and coordinate as an essential federal stakeholder with the Environmental Protection Agency on developing a Mississippi River restoration and resiliency strategy focused on improving water quality, restoring habitat and natural systems, improving navigation, eliminating aquatic invasive species, and building local resilience to natural disasters.

Monitoring of Completed Navigation Projects.—The Corps is directed to continue research on the impact of reduced lock operations on riverine fish at not less than the fiscal year 2020 level. The goal of the continued funding is to support the ongoing research and, where appropriate, expand the work to look at ecosystem level impacts and additional waterways, lock structures, lock operation methods, and fish species that will more fully inform the Corps' operations.

An additional \$4,000,000 in funding is provided to support the structural health monitoring program to facilitate research to maximize operations, enhance efficiency, and protect asset life through catastrophic failure mitigation.

Mount St. Helens Sediment Monitoring.—The agreement notes that Mount St. Helens Sediment Monitoring activities have not been funded in the Corps work plan for the sixth consecutive year. Yearly monitoring is vital to ensure that the sediment retention structure can properly protect the communities in Cowlitz County, Washington. There is awareness that the lack of federal funding has led to local communities funding sediment monitoring and encourages the Corps to include appropriate funding in future budget submissions for this effort.

Multimodal Utilization of Marine Transportation.—Aging infrastructure poses enormous challenges to the Corps mission and advances in navigation optimization modeling tools to integrate rail and road modes of transit with the marine transportation system is critical in meeting increased demand. The Corps is encouraged to continue efforts to improve the performance, efficiency, and resilience of the nation's navigation and flood risk management system and develop innovative system optimization technologies for reliable water resources infrastructure. The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on these opportunities.

National Coastal Mapping Program.—The agreement includes \$3,800,000 for Arctic coastal mapping needs currently not met by existing mapping programs due to gaps caused when mapping agencies distinguish between land mapping and water charting. The Corps shall use these funds to prioritize, coordinate and conduct Arctic coastal mapping operations, data processing, product development, and data dissemination, to identify and meet priorities in the Arctic region. The Corps is directed to work closely with the Alaska Mapping Executive Committee, the State of Alaska, and relevant federal agencies to ensure that mapping efforts are coordinated and adhere to the priorities identified in the Alaska Coastal Mapping Strategy. Not later than 90 days after enactment of this Act, the Corps shall brief the Committee on the status of these activities including future anticipated funding needs, how the Corps will partner with non-Federal stakeholders, and how the Corps will ensure adequate competition for any acquisition requirements.

National Dam Safety Program.—The Corps is directed to brief the Committees on Appropriations of both Houses of Congress as soon as the Independent External Peer Review (IEPR) of risk-informed dam safety practices is completed. The briefing shall include the review's findings, any follow-up actions to implement those findings planned by the Federal agencies, and any potential responses to the findings that Congress could take. If the IEPR review is not completed by Dec 31, 2020, the Corps shall brief the Committees on the schedule to complete this review.

Operation and Maintenance of Corps Dams.—The agreement reiterates House direction.

Performance Based Budgeting Support Program.—Of the funding provided for this remaining item, \$2,000,000 shall be to support performance based methods that enable robust budgeting of the hydropower program through better understanding of operation and maintenance impacts leveraging data analytics.

Providence, Rhode Island.—The Corps reminded that the Dredged Material Management Plan for Providence River, Rhode Island, is eligible to compete for additional funding provided in this account.

Regional Dredge Contracting.—In accordance with section 1111 of the America's Water Infrastructure Act of 2018 (Public Law 115–270), the Corps is encouraged to enter into regional contracts to support increased efficiencies in the deployment of dredges for all Civil Works mission sets, prioritizing deep draft navigational projects.

Regional Sediment Management.—The agreement provides \$5,000,000 to continue Corps research and development into enhanced forecasting capabilities to implement proactive strategies for flood risk management to enhance the resiliency of coastal communities and mitigate socioeconomic and environmental consequences of extreme coastal hazards. Funds are also provided to support cooperative efforts between the Corps and academia to address compound flooding issues.

Response to Climate Change at Corps Projects.— The agreement includes \$5,000,000 to position water resources projects to be managed as systems due to the implications of a changing climate.

Salt Cedar.—The Corps is encouraged to prioritize funding for projects that will remove non-native plant species like Salt Cedars, replace non-native plant species with native plants, and monitor riparian areas where non-native plant species have been removed and replaced. The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment of this Act detailing its work to remove, replace, and monitor to prevent the spread of non-native plant species along riparian areas.

San Rafael Channel, California.—Lack of dredging is becoming a public safety issue at the San Rafael Police and Fire Departments, which are based in the channel and need access and capacity for bay patrols, rescues, and other public safety activity. The Corps is reminded that dredging of the San Rafael Channel is eligible to compete for additional funding provided in this account.

Scheduling of Reservoir Operations.—The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than January 31, 2021, on the progress in expending the additional \$4,000,000 provided in the Scheduling of Reservoir Operations remaining item in fiscal year 2020 for a water control manual update.

Small, Remote, or Subsistence Harbors.—The agreement emphasizes the importance of ensuring that our country's small and low-use ports remain functional. The Corps is encouraged to consider expediting scheduled maintenance at small and low use ports that have experienced unexpected levels of deterioration since their last dredging.

Soil Moisture and Snowpack Monitoring Program.— The additional funds provided shall be used along with the \$3,000,000 the Corps reprogrammed to the Hydrologic Studies remaining item on June 2, 2020, in the Investigations account.

Tennessee-Tombigbee Waterway.— During the height of this shoaling in 2019, more than a dozen tows were stuck waiting for emergency channel work to restore traffic. Limited availability of emergency funds caused several weeks of additional delays. The Corps is directed to evaluate opportunities to improve operational scenarios that lead to reduced interruptions in commerce due to waterborne navigation corridor flooding, other silting activities, and unplanned lock closures.

Toledo and Lorain Harbors, Ohio.—The Corps is reminded that the Toledo and Lorain Harbors are eligible to compete for additional funding provided in this account.

Water Control Manuals.— Many water control manuals are decades old and in need of updating, particularly in light of recent dam disasters and improvements in forecast-informed reservoir operations (FIRO). Last year, Congress funded the development of a comprehensive list of water control manuals at Corps-owned projects located in states where a Reclamation project is also located, including a prioritized list of needed updates of those manuals. The agreement recommends \$7,500,000 in additional funds to complete water control manual updates at projects identified on the list, including in regions impacted by atmospheric rivers and where improved forecasting can improve water operations. If needed, funds shall also be used to operationalize a FIRO-compatible component of the Corps Water Management System to process ensemble and synthetic forecasts to ensure continuous implementation of improvements in forecast skill for water operations. The Corps is directed to brief the Committees on Appropriations of both Houses of Congress prior to executing any water control manual updates.

Water Operations Technical Support (WOTS).—The agreement includes \$5,000,000 in addition to the budget request to continue research into atmospheric rivers first funded in fiscal year 2015. The Corps is encouraged to operationalize a Forecast-Informed Reservoir Operations compatible component of the Corps Water Management System to process ensemble and synthetic forecasts to ensure continuous implementation of improvements in forecast skill for water operations.

Westport (Saugatuck River), Connecticut.—The Corps is reminded that this project is eligible to compete for additional funding provided in this account.

REGULATORY PROGRAM

The agreement includes \$210,000,000, for the Regulatory Program.

Additional Funding.— Using additional funds provided in this account the Corps shall ensure the timely processing of shellfish aquaculture permitting activities, and the agreement reiterates the House direction regarding quarterly briefings. Additional funds above the budget request are also included to address capacity needs related to staffing in Corps districts that handle high a high volume of wetland permitting.

Compensatory Mitigation Rule.—There is concern that the Corps may not be consistent in its implementation of the 2008 Compensatory Mitigation Rule, based on the Corps' publicly available data. There are concerns that particular districts have failed to adhere to the mitigation hierarchy in the Rule as it pertains to the preference for mitigation bank credits. The Corps is reminded that although the Rule provides some discretion, the Rule is clear that this discretion is limited and deviations from the mitigation hierarchy must be based on scientific and technical analysis. The Corps is directed to properly and consistently implement the Rule, including adherence to its mitigation hierarchy and documentation of decisions by the District Engineer regarding which mitigation mechanism is appropriate to offset impacts under the Rule and which sections of the Rule justify the particular decision. The Corps shall brief the

Committees on Appropriations of both Houses of Congress not later than one year after the enactment of this Act on steps taken to ensure proper and consistent application of the Rule across districts, consistent with this direction.

FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM

The agreement includes \$250,000,000 for the Formerly Utilized Sites Remedial Action Program.

FLOOD CONTROL AND COASTAL EMERGENCIES

The agreement includes \$35,000,000 for Flood Control and Coastal Emergencies. As the nation experiences severe weather events more frequently, there is appreciation for the work the Corps undertakes with this funding. The agreement notes that traditionally funding for disaster response has been provided in supplemental appropriations legislation, including recently in 2018 (Public Law 115–123) and 2019 (Public Law 116–20) and that amounts necessary to address damages at Corps projects in response to natural disasters can be significant. The Administration is reminded that it has been deficient in providing to the Committee statutorily-required detailed estimates of damages to Corps projects.

EXPENSES

The agreement includes \$206,000,000 for Expenses.

A properly staffed organizational structure is essential for the Corps to efficiently and effectively accomplish the Corps' Civil Works mission. Additional funds recommended in this account shall be used to support implementation of the Corps' Civil Works program, including hiring additional FTEs. This includes developing and issuing policy guidance; managing Civil Works program; and providing national coordination of and participation in forums and events within headquarters, the division offices, and meeting other enterprise requirements and operating expenses. The Corps is encouraged to pursue updating the 2011 U.S. Manpower Analysis Agency staffing analysis based on current Civil Works needs. The Administration is urged to include in future budget requests funding commensurate with these needs.

Deauthorizations and Inventory of Corps Projects.—In fiscal years 2019 and 2020, Congress directed the Corps to provide a list of all projects that have been deauthorized or will be deauthorized in the next two fiscal years as a result of section 1302 of the WIIN Act (Public Law 114-322) and a list of all authorized Corps studies and projects in each state. The Corps has yet to provide either of these requirements. Therefore, the Corps is directed to develop and submit to the Committees on Appropriations of both Houses of Congress not later than 120 days after the enactment of this Act the statutorily-required deauthorization lists and to brief the Committees not later than 30 days after the enactment of this Act on the status of these activities.

OFFICE OF THE ASSISTANT SECRETARY OF THE ARMY FOR CIVIL WORKS
(INCLUDING RESCISSION OF FUNDS)

The agreement includes \$5,000,000 for the Office of the Assistant Secretary of the Army for Civil Works. The agreement also includes a rescission of \$500,000 in prior-year unobligated balances, for a net appropriation of \$4,500,000. The agreement includes legislative language that restricts the availability of funding until the Secretary submits the required baseline report and a work plan that allocates at least 95 percent of the additional funding provided in each account (i.e., 95 percent of additional funding provided in Investigations, 95 percent of additional funding provided in Construction, etc.). 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.

A timely and accessible executive branch in the course of fulfilling its constitutional role in the appropriations process is essential. 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 agreement 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 shall ensure timely and complete responses to these inquiries.

There continues to be concerns about the bureaucratic process for renewing leases under 10 U.S.C. 2667 and 16 U.S.C. 460d. Therefore, the Secretary is urged to consider the efficiencies that may be gained by allowing Corps districts to authorize lease renewals under this section, including lease applications in excess of 25 years.

Administrative Costs.—To support additional transparency in project costs, the Secretary is directed to ensure that future budget submissions specify the amount of anticipated administrative costs for individual projects.

WATER INFRASTRUCTURE FINANCE AND INNOVATION PROGRAM

The agreement recommends \$14,200,000 for the Water Infrastructure Finance and Innovation Program, an increase of \$14,200,000 above the budget request.

The financial assistance the Secretary is authorized to provide pursuant to the Water Infrastructure Finance and Innovation Act (Public Law 113–121) [WIFIA] can play an important role in improving the nation's infrastructure. The Corps is directed to complete the administrative actions necessary to stand up the WIFIA program (the Corps Water Infrastructure Financing Program) and to provide the financial assistance envisioned in the legislation. The recommendation makes \$2,200,000 available to the Secretary for program development, administration, and oversight, including but not limited to, publishing the final fee and program rules, criteria for project eligibility and Notice of Funding Availability, as well as issuance of guidance to clarify, as Congress intended, that an eligible project to reduce flood damages, includes measures to prevent significant loss of life and property from the failure of high hazard dams, and that the financial assistance program authorized in WIFIA applies to all non-Federal projects and any authorized project that is non-federally owned, operated, and maintained. The recommendation includes \$12,000,000 for the financial assistance authorized by WIFIA.

GENERAL PROVISIONS—CORPS OF ENGINEERS—CIVIL
(INCLUDING TRANSFER OF FUNDS)

The agreement includes a provision relating to reprogramming.

The agreement includes a provision regarding the allocation of funds.

The agreement includes a provision prohibiting the use of funds to carry out any contract that commits funds beyond the amounts appropriated for that program, project, or activity.

The agreement includes a provision concerning funding transfers related to fish hatcheries.

The agreement includes a provision regarding certain dredged material disposal activities. The Corps is directed to brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on dredged material disposal issues.

The agreement includes a provision prohibiting funds for reorganization of the Civil Works program. Nothing in this Act prohibits the Corps from contracting with the National Academy of Sciences to carry out the study authorized by section 1102 of the America's Water Infrastructure Act of 2018 (P.L. 115-270).

The agreement includes a provision regarding eligibility for additional funding. Whether a project is eligible for funding under a particular provision of additional funding is a function of the technical details of the project; it is not a policy decision. The Chief of Engineers is the federal government's technical expert responsible for execution of the Civil Works program and for offering professional advice on its development. Therefore, the provision in this agreement clarifies that a project's eligibility for additional funding shall be solely the professional determination of the Chief of Engineers.

The agreement includes a provision regarding reallocations at a project.

The agreement includes a provision addressing new starts.

TITLE II—DEPARTMENT OF THE INTERIOR
CENTRAL UTAH PROJECT
CENTRAL UTAH PROJECT COMPLETION ACCOUNT

The agreement includes a total of \$21,000,000 for the Central Utah Project Completion Account, which includes \$17,700,000 for Central Utah Project construction, \$1,800,000 for transfer to the Utah Reclamation Mitigation and Conservation Account for use by the Utah Reclamation Mitigation and Conservation Commission, and \$1,500,000 for necessary expenses of the Secretary of the Interior.

BUREAU OF RECLAMATION

In lieu of all House and Senate direction regarding additional funding and the fiscal year 2021 work plan, the agreement includes direction under the heading “Additional Funding for Water and Related Resources Work” in the Water and Related Resources account.

Drought Resiliency.—The agreement recommends \$206,000,000 for the drought resiliency programs authorized in the WIIN Act. There is the belief that a solution to chronic droughts is a combination of additional storage, substantial investments in desalination and recycling, improved conveyance, and increased efficiencies in the uses of water both for agriculture and potable purposes.

Reclamation is directed to continue working with the U.S. Fish and Wildlife Service, the National Marine Fisheries Service, and relevant State agencies to undertake comprehensive, around the clock, real-time monitoring of water supply conditions and their impact on endangered species during critical periods in the winter and spring.

Unmanned Aerial Systems.—The agreement acknowledges receipt of the October 2019 memo indicating that the Department of the Interior (Interior) does not operate any small Unmanned Aerial Systems (sUAS) that share data outside the system without specific consent of DOI. However, in January 2020, DOI grounded non-emergency UASs due to cybersecurity concerns. Given this development, Reclamation shall brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on the total number of sUAS in inventory and operation, including a breakdown of those sUAS manufactured in or with critical components produced in the People’s Republic of China. The briefing shall also include: the justification for the January 2020 grounding of all sUAS by the Department, the number of exceptions made for emergency missions, and the plan to source additional sUAS from American manufacturers.

WATER AND RELATED RESOURCES
(INCLUDING TRANSFERS OF FUNDS)

The agreement provides \$1,521,125,000 for Water and Related Resources.

The agreement includes legislative language, in accordance with Public Law 114–322, to allow the use of certain funding provided in fiscal years 2017, 2018, 2019 and 2020.

The agreement for Water and Related Resources is shown in the following table:

[INSERT TABLE]

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST		TOTAL	FINAL BILL		TOTAL
	RESOURCES MANAGEMENT	FACILITIES OM&R		RESOURCES MANAGEMENT	FACILITIES OM&R	
ARIZONA						
AK CHIN INDIAN WATER RIGHTS SETTLEMENT ACT PROJECT	---	15,311	15,311	---	15,311	15,311
COLORADO RIVER BASIN - CENTRAL ARIZONA PROJECT	6,305	648	6,953	6,305	648	6,953
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	1,025	26,839	27,864	1,025	26,839	27,864
CALIFORNIA						
CACHUMA PROJECT	815	1,101	1,916	815	1,101	1,916
CENTRAL VALLEY PROJECT:						
AMERICAN RIVER DIVISION, FOLSOM DAM UNIT/MORMON ISLAND	1,577	8,770	10,347	1,577	8,770	10,347
AUBURN-FOLSOM SOUTH UNIT	35	2,184	2,219	35	2,184	2,219
DELTA DIVISION	4,827	5,745	10,572	4,827	5,745	10,572
EAST SIDE DIVISION	1,290	2,652	3,942	1,290	2,652	3,942
FRIANT DIVISION	1,375	3,511	4,886	1,375	3,511	4,886
SAN JOAQUIN RIVER RESTORATION SETTLEMENT	28,264	---	28,264	28,264	---	28,264
MISCELLANEOUS PROJECT PROGRAMS	7,770	370	8,140	7,770	370	8,140
REPLACEMENTS, ADDITIONS, AND EXTRAORDINARY MAINT. PROGRAM	---	26,359	26,359	---	26,359	26,359
SACRAMENTO RIVER DIVISION	1,665	495	2,160	1,665	495	2,160
SAN FELIPE DIVISION	128	68	196	128	68	196
SHASTA DIVISION	494	8,343	8,837	494	8,343	8,837
TRINITY RIVER DIVISION	10,361	4,077	14,438	10,361	4,077	14,438
WATER AND POWER OPERATIONS	2,628	10,793	13,421	2,628	10,793	13,421
WEST SAN JOAQUIN DIVISION, SAN LUIS UNIT	2,704	5,050	7,754	2,704	5,050	7,754
ORLAND PROJECT	---	873	873	---	873	873
SALTON SEA RESEARCH PROJECT	300	---	300	300	---	300
SOLANO PROJECT	1,162	2,420	3,582	1,162	2,420	3,582
VENTURA RIVER PROJECT	305	44	349	305	44	349
COLORADO						
ANIMAS-LA PLATA PROJECT	758	2,626	3,384	758	2,626	3,384
ARMEL UNIT, P-SMBP	15	452	467	15	452	467
COLLBRAN PROJECT	154	2,245	2,399	154	2,245	2,399
COLORADO-BIG THOMPSON PROJECT	160	18,118	18,278	160	18,118	18,278
FRUITGROWERS DAM PROJECT	67	133	200	67	133	200
FRYINGPAN-ARKANSAS PROJECT	76	9,358	9,434	76	9,358	9,434

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			FINAL BILL		
	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL
FRYINGPAN-ARKANSAS PROJECT - ARKANSAS VALLEY CONDUIT	8,050	---	8,050	8,050	---	8,050
GRAND VALLEY UNIT, CRBSCP, TITLE II	246	1,924	2,170	246	1,924	2,170
LEADVILLE/ARKANSAS RIVER RECOVERY PROJECT	---	13,303	13,303	---	13,303	13,303
MANCOS PROJECT	93	508	601	93	508	601
NARROWS UNIT, P-SMBP	---	30	30	---	30	30
PARADOX VALLEY UNIT, CRBSCP, TITLE II	585	6,967	7,552	585	6,967	7,552
PINE RIVER PROJECT	127	285	412	127	285	412
SAN LUIS VALLEY PROJECT, CLOSED BASIN	118	2,832	2,950	118	2,832	2,950
SAN LUIS VALLEY PROJECT, CONEJOS DIVISION	9	20	29	9	20	29
UNCOMPAHGRE PROJECT	711	169	880	711	169	880
UPPER COLORADO RIVER OPERATIONS PROGRAM	1,450	---	1,450	1,450	---	1,450
IDAHO						
BOISE AREA PROJECTS	2,552	2,444	4,996	2,552	2,444	4,996
COLUMBIA AND SNAKE RIVER SALMON RECOVERY PROJECT	16,000	---	16,000	16,000	---	16,000
LEWISTON ORCHARDS PROJECT	1,306	5	1,311	1,306	5	1,311
MINIDOKA AREA PROJECTS	2,129	3,952	6,081	2,129	3,952	6,081
PRESTON BENCH PROJECT	14	58	72	14	58	72
KANSAS						
ALMENA UNIT, P-SMBP	15	434	449	15	434	449
BOSTWICK UNIT, P-SMBP	44	929	973	44	929	973
CEDAR BLUFF UNIT, P-SMBP	9	500	509	9	500	509
GLEN ELDER UNIT, P-SMBP	20	16,941	16,961	20	16,941	16,961
KANSAS RIVER UNIT, P-SMBP	---	100	100	---	100	100
KIRWIN UNIT, P-SMBP	27	387	414	27	387	414
WEBSTER UNIT, P-SMBP	17	4,449	4,466	17	4,449	4,466
WICHITA PROJECT - CHENEY DIVISION	39	339	378	39	339	378
MONTANA						
CANYON FERRY UNIT, P-SMBP	188	5,291	5,479	188	5,291	5,479
EAST BENCH UNIT, P-SMBP	162	614	776	162	614	776
FORT PECK RESERVATION / DRY PRAIRIE RURAL WATER SYSTEM	2,431	---	2,431	2,431	---	2,431
HELENA VALLEY UNIT, P-SMBP	52	219	271	52	219	271
HUNGRY HORSE PROJECT	---	829	829	---	829	829
HUNTLEY PROJECT	38	27	65	38	27	65
LOWER MARIAS UNIT, P-SMBP	86	1,662	1,748	86	1,662	1,748
LOWER YELLOWSTONE PROJECT	535	37	572	535	37	572

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			FINAL BILL		
	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL
MILK RIVER PROJECT	400	2,885	3,285	400	2,885	3,285
MISSOURI BASIN O&M, P-SMBP	1,015	118	1,133	1,015	118	1,133
ROCKY BOYS/NORTH CENTRAL MT RURAL WATER SYSTEM	1,984	---	1,984	1,984	---	1,984
SUN RIVER PROJECT	107	438	545	107	438	545
YELLOWTAIL UNIT, P-SMBP	105	8,933	9,038	105	8,933	9,038
NEBRASKA						
AINSWORTH UNIT, P-SMBP	62	105	167	62	105	167
EASTERN NEW MEXICO WATER SUPPLY - UTE RESERVOIR	50	---	50	50	---	50
FRENCHMAN-CAMBRIDGE UNIT, P-SMBP	203	1,856	2,059	203	1,856	2,059
MIRAGE FLATS PROJECT	21	92	113	21	92	113
NORTH LOUP UNIT, P-SMBP	47	126	173	47	126	173
NEVADA						
LAHONTAN BASIN PROJECT	6,470	4,423	10,893	6,470	4,423	10,893
LAKE TAHOE REGIONAL DEVELOPMENT PROGRAM	115	---	115	115	---	115
LAKE MEAD/LAS VEGAS WASH PROGRAM	595	---	595	595	---	595
NEW MEXICO						
CARLSBAD PROJECT	1,870	1,852	3,722	1,870	1,852	3,722
MIDDLE RIO GRANDE PROJECT	13,975	11,112	25,087	13,975	11,112	25,087
RIO GRANDE PROJECT	1,741	6,315	8,056	1,741	6,315	8,056
RIO GRANDE PUEBLOS PROJECT	50	---	50	50	---	50
TUCUMCARI PROJECT	15	5	20	15	5	20
NORTH DAKOTA						
DICKINSON UNIT, P-SMBP	---	568	568	---	568	568
GARRISON DIVERSION UNIT, P-SMBP	7,708	13,377	21,085	7,708	13,377	21,085
HEART BUTTE UNIT, P-SMBP	82	1,173	1,255	82	1,173	1,255
OKLAHOMA						
ARBUCKLE PROJECT	39	210	249	39	210	249
MCGEE CREEK PROJECT	20	856	876	20	856	876
MOUNTAIN PARK PROJECT	30	653	683	30	653	683
NORMAN PROJECT	76	324	400	76	324	400
WASHITA BASIN PROJECT	52	1,071	1,123	52	1,071	1,123
W.C. AUSTIN PROJECT	37	514	551	37	514	551

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			FINAL BILL		TOTAL
	RESOURCES MANAGEMENT	FACILITIES OM&R	RESOURCES TOTAL MANAGEMENT	FACILITIES OM&R		
OREGON						
CROOKED RIVER PROJECT	345	459	804	345	459	804
DESCHUTES PROJECT	449	231	680	449	231	680
EASTERN OREGON PROJECTS	767	241	1,008	767	241	1,008
KLAMATH PROJECT	15,129	4,290	19,419	15,129	4,290	19,419
ROGUE RIVER BASIN PROJECT, TALENT DIVISION	939	492	1,431	939	492	1,431
TUALATIN PROJECT	545	324	869	545	324	869
UMATILLA PROJECT	561	2,526	3,087	561	2,526	3,087
SOUTH DAKOTA						
ANGOSTURA UNIT, P-SMBP	30	663	693	30	663	693
BELLE FOURCHE UNIT, P-SMBP	376	865	1,241	376	865	1,241
KEYHOLE UNIT, P-SMBP	---	572	572	---	572	572
LEWIS AND CLARK RURAL WATER SYSTEM	100	---	100	100	---	100
MID-DAKOTA RURAL WATER PROJECT	---	20	20	---	20	20
MNI WICONI PROJECT	---	14,491	14,491	---	14,491	14,491
OAHE UNIT, P-SMBP	---	110	110	---	110	110
RAPID VALLEY PROJECT	---	77	77	---	77	77
RAPID VALLEY UNIT, P-SMBP	---	220	220	---	220	220
SHADEHILL UNIT, P-SMBP	119	495	614	119	495	614
TEXAS						
BALMORHEA PROJECT	16	4	20	16	4	20
CANADIAN RIVER PROJECT	42	82	124	42	82	124
LOWER RIO GRANDE WATER CONSERVATION PROGRAM	36	---	36	36	---	36
NUECES RIVER PROJECT	52	1,012	1,064	52	1,012	1,064
SAN ANGELO PROJECT	23	613	636	23	613	636
UTAH						
HYRUM PROJECT	108	250	358	108	250	358
MOON LAKE PROJECT	19	130	149	19	130	149
NEWTON PROJECT	59	123	182	59	123	182
OGDEN RIVER PROJECT	218	248	466	218	248	466
PROVO RIVER PROJECT	1,062	2,587	3,649	1,062	2,587	3,649
SANPETE PROJECT	63	14	77	63	14	77
SCOFIELD PROJECT	296	140	436	296	140	436
STRAWBERRY VALLEY PROJECT	768	66	834	768	66	834

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			FINAL BILL		
	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL
WEBER BASIN PROJECT	1,270	1,057	2,327	1,270	1,057	2,327
WEBER RIVER PROJECT	2,609	189	2,798	2,609	189	2,798
WASHINGTON						
COLUMBIA BASIN PROJECT	7,040	18,956	25,996	7,040	18,956	25,996
WASHINGTON AREA PROJECTS	431	49	480	431	49	480
YAKIMA PROJECT	1,570	9,371	10,941	1,570	9,371	10,941
YAKIMA RIVER BASIN WATER ENHANCEMENT PROJECT	14,410	---	14,410	14,410	---	14,410
WYOMING						
BOYSEN UNIT, P-SMBP	79	2,270	2,349	79	2,270	2,349
BUFFALO BILL DAM, DAM MODIFICATION, P-SMBP	9	3,339	3,348	9	3,339	3,348
KENDRICK PROJECT	80	6,935	7,015	80	6,935	7,015
NORTH PLATTE PROJECT	94	2,609	2,703	94	2,609	2,703
NORTH PLATTE AREA, P-SMBP	122	5,130	5,252	122	5,130	5,252
OWL CREEK UNIT, P-SMBP	4	220	224	4	220	224
RIVERTON UNIT, P-SMBP	8	707	715	8	707	715
SHOSHONE PROJECT	34	1,216	1,250	34	1,216	1,250
SUBTOTAL, PROJECTS	202,566	364,489	567,055	202,566	364,489	567,055
REGIONAL PROGRAMS						
ADDITIONAL FUNDING FOR ONGOING WORK:						
RURAL WATER	---	---	---	114,708	---	114,708
FISH PASSAGE AND FISH SCREENS	---	---	---	11,400	---	11,400
WATER CONSERVATION AND DELIVERY	---	---	---	255,071	---	255,071
ENVIRONMENTAL RESTORATION OR COMPLIANCE	---	---	---	42,500	---	42,500
FACILITIES OPERATION, MAINTENANCE, AND REHABILITATION	---	---	---	---	4,000	4,000
COLORADO RIVER COMPLIANCE ACTIVITIES:						
CONSUMPTIVE USE	380	---	380	---	---	---
COLORADO RIVER STORAGE PROJECT (INITIAL UNITS)	20,000	---	20,000	---	---	---
WATER QUALITY PROGRAM	1,020	---	1,020	---	---	---
COLORADO RIVER BASIN SALINITY CONTROL PROJECT, TITLE I	1,500	14,739	16,239	1,500	14,739	16,239
COLORADO RIVER BASIN SALINITY CONTROL PROJECT, TITLE II	6,000	---	6,000	6,000	---	6,000
COLORADO RIVER STORAGE PROJECT (CRSP), SECTION 5	2,953	7,346	10,299	2,953	7,346	10,299
COLORADO RIVER STORAGE PROJECT (CRSP), SECTION 8	3,322	---	3,322	3,322	---	3,322
COLORADO RIVER WATER QUALITY IMPROVEMENT PROJECT	740	---	740	740	---	740

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			FINAL BILL		TOTAL
	RESOURCES MANAGEMENT	FACILITIES OM&R	RESOURCES TOTAL MANAGEMENT	FACILITIES OM&R		
DAM SAFETY PROGRAM:						
DEPARTMENT OF THE INTERIOR DAM SAFETY PROGRAM	---	1,300	1,300	---	1,300	1,300
INITIATE SAFETY OF DAMS CORRECTIVE ACTION	---	86,500	86,500	---	86,500	86,500
SAFETY EVALUATION OF EXISTING DAMS	---	19,284	19,284	---	19,284	19,284
EMERGENCY PLANNING & DISASTER RESPONSE PROGRAM	---	1,250	1,250	---	1,250	1,250
ENDANGERED SPECIES RECOVERY IMPLEMENTATION PROGRAM						
ENDANGERED SPECIES RECOVERY IMPLEMENTATION PROGRAM (Bureauwide)	2,500	---	2,500	2,500	---	2,500
ENDANGERED SPECIES RECOVERY IMPLEMENTATION PROGRAM (Platte River)	4,000	---	4,000	4,000	---	4,000
ENDANGERED SPEC RECOVERY IMPL PROG (Upper Colo & San Juan Riv Basins)	4,802	---	4,802	4,802	---	4,802
ENVIRONMENTAL PROGRAM ADMINISTRATION	1,558	---	1,558	1,558	---	1,558
EXAMINATION OF EXISTING STRUCTURES	---	9,421	9,421	---	9,421	9,421
GENERAL PLANNING ACTIVITIES	2,112	---	2,112	2,112	---	2,112
INDIAN WATER RIGHTS SETTLEMENTS:						
AAMODT LITIGATION SETTLEMENT	4,000	---	4,000	4,000	---	4,000
BLACKFEET SETTLEMENT	25,882	---	25,882	25,882	---	25,882
CROW TRIBE RIGHTS	12,772	---	12,772	12,772	---	12,772
NAVAJO GALLUP	38,601	5,000	43,601	38,601	5,000	43,601
LAND RESOURCES MANAGEMENT PROGRAM	9,815	---	9,815	9,815	---	9,815
LOWER COLORADO RIVER OPERATIONS PROGRAM	37,639	---	37,639	37,639	---	37,639
MISCELLANEOUS FLOOD CONTROL OPERATIONS	---	897	897	---	897	897
NATIVE AMERICAN AFFAIRS PROGRAM	11,685	---	11,685	11,685	---	11,685
NEGOTIATION & ADMINISTRATION OF WATER MARKETING	2,308	---	2,308	2,308	---	2,308
OPERATION & PROGRAM MANAGEMENT	806	2,537	3,343	806	2,537	3,343
POWER PROGRAM SERVICES	2,113	307	2,420	2,113	307	2,420
PUBLIC ACCESS AND SAFETY PROGRAM	610	206	816	610	206	816
RECLAMATION LAW ADMINISTRATION	1,784	---	1,784	1,784	---	1,784
RECREATION & FISH & WILDLIFE PROGRAM ADMINISTRATION	4,811	---	4,811	4,811	---	4,811
RESEARCH AND DEVELOPMENT:						
DESALINATION AND WATER PURIFICATION PROGRAM	1,753	1,150	2,903	20,350	1,150	21,500
SCIENCE AND TECHNOLOGY PROGRAM	11,014	---	11,014	15,000	---	15,000
SITE SECURITY ACTIVITIES	---	27,296	27,296	---	27,296	27,296
UNITED STATES/MEXICO BORDER ISSUES - TECHNICAL SUPPORT	80	---	80	80	---	80
WATERSMART PROGRAM:						
WATERSMART GRANTS	7,861	---	7,861	55,000	---	55,000
WATER CONSERVATION FIELD SERVICES PROGRAM	2,140	---	2,140	2,140	---	2,140
COOPERATIVE WATERSHED MANAGEMENT	250	---	250	4,250	---	4,250
BASIN STUDIES	2,000	---	2,000	2,408	---	2,408
DROUGHT RESPONSES & COMPREHENSIVE DROUGHT PLANS	2,901	---	2,901	4,000	---	4,000
TITLE XVI WATER RECLAMATION & REUSE PROGRAM	3,000	---	3,000	63,617	---	63,617

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST		TOTAL	FINAL BILL		TOTAL
	RESOURCES MANAGEMENT	FACILITIES OM&R		RESOURCES MANAGEMENT	FACILITIES OM&R	
SUBTOTAL, REGIONAL PROGRAMS	234,712	177,233	411,945	772,837	181,233	954,070
TOTAL, WATER AND RELATED RESOURCES	437,278	541,722	979,000	975,403	545,722	1,521,125

Aamodt Litigation Settlement Act.—The agreement directs Reclamation to use funds on hand for this settlement to initiate construction of features necessary to prevent additional cost overruns.

Additional Funding for Water and Related Resources Work.—The agreement includes funds above the budget request for Water and Related Resources studies, projects, and activities. This funding is for additional work that either was not included in the budget request or was inadequately budgeted. 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. Funding provided under this heading, “Additional Funding for Ongoing Work” may be utilized for ongoing work, including preconstruction activities, on projects that provide new or existing water supplies through additional infrastructure.

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 the WIIN Act (Public Law 114–322).

Of the additional funding recommended under the heading “Water Conservation and Delivery,” not less than \$8,000,000 shall be for construction activities related to projects found to be feasible by the Secretary and which are ready to initiate for the repair of critical Reclamation canals where operational conveyance capacity has been seriously impaired by factors such as age or land subsidence, especially those that would imminently jeopardize Reclamation’s ability to meet water delivery obligations.

Of the additional funding recommended under the heading “Water Conservation and Delivery,” \$40,000,000 shall be for water conservation and banking or infrastructure projects in areas that are experiencing extended drought conditions; and with priority for activities related to the implementation of the agreements authorized by the Colorado River Drought Contingency Plan Authorization Act of 2019 (Public Law No: 116–14). These water conservation activities shall include well construction and irrigation-related structural or other measures; programs and projects that result in conservation of surface water or groundwater; or improve water system efficiency, resiliency, reliability, delivery, and conveyance, including canal system improvements. Reclamation is directed to brief the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment of this Act on the status of carrying out these activities.

Of the additional funding provided under the heading “Environmental Restoration or Compliance,” not less than \$40,000,000 shall be for activities authorized under sections 4001 and 4010 of the WIIN Act (Public Law 114–322) or as set forth in federal-state plans for restoring threatened and endangered fish species affected by the operation of Reclamation’s water projects.

Funding associated with each category may be allocated to any eligible study or project, as appropriate, within that category; funding associated with each subcategory may be allocated only to eligible studies or projects, as appropriate, within that subcategory.

Not later than 45 days after 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 the following activities are eligible to compete for funding under the appropriate heading: activities authorized under Indian Water Rights Settlements; aquifer recharging efforts to address the ongoing backlog of related projects; all authorized rural water projects, including those with tribal components, those with non-tribal components, and those with both; conjunctive use projects and other projects to maximize groundwater storage and beneficial use; ongoing work, including preconstruction activities, on projects that provide new or existing water supplies through additional infrastructure; and activities authorized under section 206 of Public Law 113–235. Reclamation is further reminded that feasibility studies and projects within the Central Valley Project Restoration fund, including those capable of improving water security from drought and natural disasters, are eligible to compete for additional funding provided in this account.

Airborne Snow Observatory Program.—Reclamation has historically supported for snowpack surveys through the Airborne Snow Observatory (ASO) program and is encouraged to continue support of this important program.

Anadromous Fish Screen Program.—Concerns persist that insufficient resources are being devoted to completing work on the last two remaining priority unscreened diversions on the Sacramento River, both of which have been specifically identified as priorities in the California Natural Resources Agency Sacramento Valley Salmon Resiliency Strategy. Reclamation is reminded that that these diversions are eligible to compete for the additional funding provided in this account. Additionally, Reclamation is encouraged to maintain its focus on screening high priority diversions in the San Joaquin River Basin.

Aquifer Recharge.—Reclamation is directed to work closely with project beneficiaries to identify and resolve any barriers to aquifer recharge projects when appropriate, while utilizing full authority to prioritize funds for ongoing projects through completion. Of the funds provided in this account above the budget request, \$20,000,000 shall be for Aquifer Storage and Recovery projects focused on ensuring sustainable water supply and protecting water quality of aquifers in the Great Plains Region with shared or multi-use aquifers, for municipal, agricultural irrigation, industrial, recreation and domestic users.

Buried Metallic Water Pipe.—Reclamation shall continue following its temporary design guidance.

CALFED Water Storage Feasibility Studies.—There is recognition that these studies have taken more than 15 years and it is expected that Reclamation will take necessary steps to ensure that each of these studies is completed as soon as possible. Reclamation is directed to expeditiously complete financial assistance agreements requested by the non-Federal sponsors of these projects to help move the projects forward more efficiently.

Columbia Basin Project.—The Odessa Groundwater Replacement project, part of the larger Columbia Basin Project, exists to address the severely declining Odessa groundwater aquifer within the Columbia Basin Irrigation Project boundary. The 2013 Odessa Groundwater Replacement Project Environmental Impact Statement and Record of Decision provides the legal and regulatory framework to implement the Odessa Groundwater Replacement Project. Reclamation is encouraged to move forward on implementing authorized components of the plan.

Drought Contingency Plans.—Reclamation, the Department of Interior, and the seven Colorado River Basin states are to be commended for completing drought contingency plans to conserve water and reduce risks from ongoing drought for the Upper and Lower Colorado River basins. The completion of these plans marks a major milestone in protecting a critical water source in the western United States. Reclamation is encouraged to provide sufficient funding in future budget requests for activities that support these plans.

Lower Colorado River Operations Program.—Reclamation is reminded that activities within this program are eligible to compete for additional funds provided under “Water Conservation and Delivery.”

Pick-Sloan Ability-to-Pay.—Concerns persist that more than 30 Pick-Sloan irrigation districts served by Reclamation may experience significant financial impacts should Reclamation move forward with the proposal to change the eligibility requirements for the program related to user’s ability to pay. Reclamation shall review the Pick-Sloan Missouri Basin Program authorizing legislation and brief the Committees on Appropriations of both Houses of Congress on its findings, including the extent to which Congress authorized relief from operation maintenance, and replacement costs for project use power in that program based on an irrigation district’s ability to pay, how that authority has been applied over time, and the impacts of the currently proposed changes. For federal projects, Reclamation is directed to continue to consider irrigation district ability to pay consistent with the original intent of Congress and the 1944 Flood Control Act.

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. Reclamation is encouraged to give special consideration to drought-prone regions and in collaboration with possible partners in the Middle East, including Israel.

Rural Water Projects.—Voluntary funding in excess of legally required cost shares for rural water projects is acceptable, but shall not be used by Reclamation as a criterion for allocating additional funding provided in this agreement or for budgeting in future years.

Salton Sea Restoration.—Reclamation is encouraged to partner with federal, state, and local agencies and coordinate use of all existing authorities to support the State of California’s Salton Sea Management Program. Reclamation is reminded that these activities are eligible to compete for additional funds provided in this account.

Salton Sea Research Program.—Reclamation is reminded that activities and projects associated with habitat improvement, water quality, and system development, projects with a public health benefit that will benefit economically disadvantaged communities, and projects that take a multi-agency approach are eligible to compete for additional funds provided in this act.

San Joaquin River Restoration.—Concerns persist that Reclamation’s fiscal year 2021 budget request proposes only \$28,300,000 for the San Joaquin River Restoration Program, even though Reclamation’s 2018 Funding-Constrained Framework for Implementation identifies over \$643,000,000 in needed program work through fiscal year 2024. Reclamation is encouraged to continue to seek annual funding at recent levels for the program. Permanent appropriations, newly available for the program in fiscal year 2020 should not supplant continued annual appropriations.

San Justo Reservoir, California.—Reclamation is reminded that the San Justo Reservoir Mussel Eradication Project is eligible to compete for the additional funding provided in “Water Conservation and Delivery.”

Snow Modeling Data Processing.—Of the additional funding recommended in this account, \$3,000,000 shall be to support Reclamation’s efforts to support the U. S. Department of Agriculture and National Oceanic and Atmospheric Administration efforts to improve real-time and derived snow water equivalent information such that it can be immediately used for water resources decision-making. Reclamation is directed to continue and expand its partnerships with other Federal water management agencies on the use of new technologies related to improved direct measurements and derived Reclamation is encouraged to use innovative techniques for the purposes of forecasting timing, duration, and quantities of snow-fed water supplies to provide accurate information on water supply levels in the 17 western states, including, but not limited to, synthetic aperture radar and laser altimetry.

St. Mary’s Diversion Dam and Conveyance Works.— Given the recent drop structure failure and the potential impacts to Reclamation’s ability to deliver water, Reclamation is directed to continue working with local stakeholders to find innovative ways to maintain and repair this infrastructure without undue impact to water users.

Tualatin Project, Scoggins Dam, Oregon.—The agreement includes House direction regarding finalization of the Joint Project Contributed Funds Act agreement. Further, Reclamation shall brief the Committees on Appropriations of both Houses of Congress not later than 60 days after enactment of this Act on the status of the dam safety activities, including a timeline for completion and any challenges to addressing the safety concerns in the most efficient manner.

Water and Energy Efficiency Grants.—Water and Energy Efficiency Grants are an important tool for building drought resiliency in the West. However, there is concern that many of the Water and Energy Efficiency Grants fund projects that may increase water scarcity at the basin scale by allowing conservation grant recipients to use conserved water for consumptive use.

The agreement directs Reclamation to ensure that all projects funded under 42 U.S.C. 10364 comply with 42 U.S.C. 10364(a)(3)(B) and to articulate the use of the conserved water with its annual award announcement. Reclamation is directed to report to the Committees on Appropriations of both Houses of Congress not later than September 1, 2021, on how much water each activity awarded a grant in fiscal year 2020 and 2021 anticipated the activity would conserve annually and how the grantee was, or would be, using the conserved water, or was or would be ensuring that the conserved water did not go to increase consumptive use.

WaterSMART Program.—Reclamation is encouraged to prioritize eligible water conservation projects that will provide water supplies to meet the needs of threatened and endangered species.

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.

White Mountain Apache Rural Water System Project.—Reclamation is directed to continue to work with the White Mountain Apache Tribe on the White Mountain Apache Rural Water System project, and is reminded that this project is eligible to compete for the additional funding provided in “Water Conservation and Delivery.”

Yakima River Basin Integrated Water Resource Management Plan.—This innovative water management plan represents years of collaboration in the Yakima River Basin among stakeholders including Reclamation, the State of Washington, the Yakama Nation, irrigators and farmers, conservation organizations, recreationists, and local governments to address water supply needs for agriculture, fish and wildlife, and municipal use. Reclamation is reminded that these activities are eligible to compete for additional funding provided in this account.

CENTRAL VALLEY PROJECT RESTORATION FUND

The agreement provides \$55,875,000 for the Central Valley Project Restoration Fund.

Anadromous Fish Screen Program.— The recommendation includes not less than \$1,200,000 for the Anadromous Fish Screen Program, in accordance with the budget request. There continues to be concern about the disconnect between funding levels requested and ultimately allocated for the Anadromous Fish Screen Program. Reclamation is urged to maintain its focus on screening the remaining high priority diversions from within funds made available under the Central Valley Project Restoration Fund.

CALIFORNIA BAY-DELTA RESTORATION
(INCLUDING TRANSFERS OF FUNDS)

The agreement provides \$33,000,000 for the California Bay-Delta Restoration Program.

POLICY AND ADMINISTRATION

The agreement provides \$60,000,000 for Policy and Administration.

Reclamation Project Reimbursability Decisions.—In September 2017, the Department of the Interior's Office of Inspector General released a report calling into question the transparency of Reclamation's financial participation in the State of California's Bay-Delta Conservation Plan. Although Reclamation disputed several findings and recommendations in the report, Reclamation has taken steps to update its current practices and internal guidelines to better align with report recommendations. Reclamation is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 10 days after enactment of this Act, or after finalizing these updates, written copies of the relevant documents, and not later than February 28, 2021, a list of instances of redirecting appropriated funds from the intended purpose outlined in the previous year's budget request.

Concerns remain regarding administrative delays and excessive review times in the award and implementation of financial assistance agreement funding. Reclamation is urged to address factors related to these issues, including lags in completing contracts, in a timely and efficient manner.

ADMINISTRATIVE PROVISION

The agreement includes a provision limiting Reclamation to purchase not more than five passenger vehicles for replacement only.

GENERAL PROVISIONS—DEPARTMENT OF THE INTERIOR

The agreement includes a provision outlining the circumstances under which the Bureau of Reclamation may reprogram funds.

The agreement includes a provision regarding the San Luis Unit and Kesterson Reservoir in California.

The agreement includes a provision regarding section 9504(e) of the Omnibus Public Land Management Act of 2009.

The agreement includes a provision regarding the CALFED Bay-Delta Authorization Act.

The agreement includes a provision regarding section 9106(g)(2) of the Omnibus Public Land Management Act of 2009.

The agreement includes a provision regarding the Cooperative Watershed Management Program.

The agreement includes a provision regarding the Reclamation States Emergency Drought Relief Act of 1991.

The agreement includes a provision prohibiting the use of funds in this Act for certain activities.

TITLE III—DEPARTMENT OF ENERGY

The agreement provides \$39,625,025,000 for the Department of Energy to fund programs in its primary mission areas of science, energy, environment, and national security.

CONGRESSIONAL DIRECTION

The Committees on Appropriations of both Houses of Congress count on a timely and accessible executive branch in the course of fulfilling its constitutional role in the appropriations process. Requesting and receiving basic, factual information, including budget justification materials and responses to inquiries, is vital in order to ensure transparency and accountability. While some discussions internal to the executive branch may be pre-decisional in nature and therefore not subject to release, the Committees' access to the facts, figures, and statistics that inform the decisions of the executive branch are not subject to those same sensitivities. The Committees shall have ready and timely access to information from the Department, Federally Funded Research and Development Centers, and any recipient of funding from this Act. Further, the Committees appreciate the ability for open and direct communication with all recipients of funding from this Act, and the Department shall not interfere with such communication.

REPROGRAMMING REQUIREMENTS

The agreement carries the Department's reprogramming authority in statute to ensure that the Department carries out its programs consistent with congressional direction. The Department shall, when possible, submit consolidated, cumulative notifications to the Committees on Appropriations of both Houses of Congress.

Definition.—A reprogramming includes the reallocation of funds from one program, project, or activity to another within an appropriation. 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.

FINANCIAL REPORTING AND MANAGEMENT

The Department is still 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. The Department is directed to provide these requirements not later than 30 days after enactment of this Act.

Concerns persist that the Department is not considering carryover balances during the budget formulation process. The Department is directed to submit, with its budget submission to the Committees on Appropriations of both Houses of Congress, a plan to reduce its carryover balances to applicable thresholds by the end of fiscal year 2021. The Comptroller General of the United States shall assess the adequacy of the Department's plan and its interpretation of the application thresholds. Further, the Comptroller General is directed to assess the methodology by which carryover is calculated with special attention to contracting vehicles and associated funding requirements. The Comptroller General shall brief the Committees on its findings not later than 60 days after submission of the budget.

Working Capital Fund.—The agreement reiterates House direction regarding the Working Capital Fund.

Alleviation of Poverty.—In each year since fiscal year 2016, the Department has been directed to provide a report detailing all domestic and international projects and programs within its jurisdiction that contribute to the alleviation of poverty. The report has not been provided, and the Department is directed to provide this report not later than 30 days after enactment of this Act.

Contract Auditing and Management.—The agreement reiterates House direction to the Department and the Government Accountability Office (GAO) regarding the Cooperative Audit Strategy. In keeping with the Department's concurrence on GAO's recommendation, the Department is directed to track improper payment information in the Agency Financial Report and include the cumulative amounts of improper payments made in a given year to determine whether the annual total exceeds \$100 million. Not later than 120 days after enactment of this Act, the Department shall brief the Committees on Appropriations of both Houses of Congress on the Department's plan to implement GAO's recommendation.

Congressional Reporting Requirements.—Given the Department's often lengthy delays in meeting its Congressional reporting requirements, the Department is directed to establish a tracking mechanism for all Congressional reporting requirements, to be led by the Office of the Chief Financial Officer. The Department shall brief the Committees on Appropriations of both Houses of Congress not later than 30 days after enactment of this Act on this effort.

WORKFORCE DEVELOPMENT AND DIVERSITY

Workforce Development.—The agreement reiterates House direction regarding a reporting requirement.

Workplace Diversity.—The agreement reiterates House direction regarding reporting requirements.

RESEARCH AND DEVELOPMENT POLICY

The Department is directed to maintain a diverse portfolio of early-, mid-, and late-stage research, development, and market transformation activities in each applied energy research and development program office. The Department is further directed to fully execute the funds appropriated in a timely manner and to keep the Committees on Appropriations of both Houses of Congress apprised of progress in implementing funded programs, projects, and activities.

CROSCUTTING INITIATIVES

The agreement provides no direction with respect to funding amounts for Crosscutting Initiatives except as explicitly included in this statement.

Grid Modernization.— The agreement strongly recommends that the Grid Modernization Initiative (GMI) include efforts to develop regional predictive models of weather-caused power outages in its next Grid Modernization Lab Call and Multi-Year Program Plan to address this pressing need.

Energy Storage.—The Department is directed to submit to the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment of this Act and make publicly available a crosscutting research and development roadmap and implementation plan to illustrate the Energy Storage Grand Challenge's goals through 2030. The roadmap shall be focused on reducing costs and improving the performance of a diverse set of grid-scale storage technologies to meet industry needs, improve reliability and environmental performance of the electricity grid, and reduce greenhouse gas emissions. The roadmap shall include a focus on the technical, regulatory, and market issues necessary to achieve technology goals, and the implementation plan shall include a breakdown of the roles and responsibilities of each participating program office to ensure coordination among EERE, OE, FE, NE, and the Office of Science. Additionally, the roadmap and implementation plan shall include long-duration energy storage in all its forms, including chemical, electrochemical, thermal, and mechanical, as a critical enabler of high volumes of renewables on the grid. The Department is directed to provide quarterly briefings to the Committees on the Energy Storage Grand Challenge efforts, starting not later than 90 days after enactment of this Act. The Department is directed to coordinate efforts among various existing Department programs to maximize efficiency of funds and expand vital research.

Critical Minerals.—With respect to the newly established Critical Minerals Initiative, the Department is directed to brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on the funding profiles, portfolio of funding opportunities, programmatic investments, and roles and responsibilities of each participating program office.

Plastics Innovation Challenge and Revolutionizing Polymer Upcycling.—The Department is directed to provide to the Committees on Appropriations of both Houses of Congress a report that describes a coordinated research plan for activities within EERE, the Office of Science, and any other relevant program office. The research plan shall include the roles and responsibilities for each program office. The report shall be provided not later than 90 days after enactment of this Act and prior to any funds being obligated for these purposes.

Integrated Energy Systems.—The Department is directed to submit to the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act a report that details a potential research agenda of integrated energy systems activities, including estimated funding levels for those activities and the roles and responsibilities of each participating program office. The Department is directed to coordinate all integrated energy systems activities across FE, NE, EERE, and any other relevant program office.

Emissions Reductions.—The Department is directed to take into consideration the projected reductions in greenhouse gas emissions when selecting activities and projects for funding within EERE, NE, and FE.

Arctic Energy Office.—The agreement supports the promotion of research, development, and deployment of electric power technology that is cost-effective and well-suited to meet the needs of rural and remote regions of the United States, especially where permafrost is present or located nearby. The Department is directed to continue the renewed focus on the Arctic region, and as a crosscutting activity, use the Arctic Energy Office as a centralized area to support the use of energy resources, but also innovative activities, including microgrids and integrated energy systems.

Researching effects of Per- and polyfluoroalkyl substances [PFAS].—The agreement recognizes the potential impacts of PFAS contamination in humans and that supercomputers are critical in this field of research. Therefore, the agreement urges the Department, in coordination with the Environmental Protection Agency and the National Institute of Environmental Health Sciences Superfund Research Program, to use supercomputers to study the computational toxicology of PFAS.

DISLOCATED COAL MINERS ASSISTANCE

The Secretary is directed to coordinate with the Secretary of Labor to ensure dislocated coal miners receive re-employment services they are currently eligible for under the Workforce Innovation and Opportunity Act Programs.

ETHANE LONG TERM TRENDS

The Secretary, in consultation with the heads of other relevant federal departments or agencies and stakeholders, as appropriate, is encouraged to conduct not later than one year after enactment of this Act a study assessing the long-term trends related to the domestic production and consumption of ethane, the export of ethane, and the opportunities for and economic benefit of investments for further domestic use. The study should include an examination of the following questions: (i) what is the potential value (direct investment, direct and indirect job creation, tax generation, etc.) of domestic manufacturing growth based on available domestic ethane supply; (ii) given demonstrated historical investment in ethane-based domestic manufacturing, and assuming it will continue given sufficient projected ethane supply, what is the opportunity cost of exporting available ethane supply in support of foreign manufacturing; (iii) what is the impact of progressive import tariffs (such as those imposed by China where value-added goods are tariffed at higher rates than the raw materials used to make them are tariffed) on ethane, ethylene and polyethylene; (iv) could these strategies by other countries, result in capital flight from the U.S. to other countries where U.S. raw materials will be upgraded to higher value-added goods and sold back to America; and (v) have other countries enacted policies around use versus exporting purity ethane.

CONTRACT COMPETITION

The Comptroller General is directed to assess aspects of the Department's and National Nuclear Security Administration's (NNSA) acquisition processes. The assessment should include the following issues:

—Competition in recent awards: information on how many companies in recent years have bid on and received awards for large DOE and NNSA contracts, and the extent to which the companies are bidding on multiple solicitations.

—Barriers to entry: whether there are systemic impediments that affect whether companies will do business with DOE and NNSA, whether DOE and NNSA are aware of these impediments, and if so, what the agencies have done to address them.

—Selection criteria: selection criteria DOE and NNSA have used for their large contracts, how the agencies determine the selection criteria to use for a solicitation, and how the agencies determine the relative priority of those criteria.

—Past performance information: how DOE and NNSA use information on past performance in making awards, particularly when many large DOE and NNSA contracts are awarded to several companies that come together to form a single purpose limited liability company, and how reliable the information in the Contractor Performance Assessment Reporting System is for making determinations about companies' past performance.

The Comptroller General shall provide a briefing to the Committees on Appropriations of both Houses of Congress on GAO's plan for addressing these issues not later than 180 days after enactment of the Act.

FREEDOM OF INFORMATION ACT REVIEW REQUESTS

The Department is directed to provide sufficient funding to increase the number of classifiers to review document requests submitted to the Department through the Freedom of Information Act.

ENERGY PROGRAMS
ENERGY EFFICIENCY AND RENEWABLE ENERGY
(INCLUDING RESCISSION OF FUNDS)

The agreement provides \$2,864,000,293 for Energy Efficiency and Renewable Energy. The agreement also includes a rescission of \$2,240,293 of unused, previously appropriated funds, for a net appropriation of \$2,861,760,000. Direction related to Department-wide crosscutting initiatives is provided under the heading “Crosscutting Initiative” in the front matter of “Department of Energy.”

Congressional Direction.—The Department is directed to give priority to stewarding the assets and optimizing the operations of EERE-designated user facilities across the Department’s complex. In future budget requests, the Department is directed to demonstrate a commitment to operations and maintenance of facilities that support the Department’s critical missions.

Research and Development Policy.—The Department is reminded that the research and development (R&D) policy contained in the front matter of Title III of this report specifically applies to each program within EERE. The Department shall provide the Committees on Appropriations of both Houses of Congress with the specific breakdowns for R&D stages for both funds that are allocated according to this report and any funds that are not allocated by this report for each program.

Renewable Energy Grid Integration.—To facilitate the oversight of grid integration activities, the agreement provides \$40,000,000 to be provided from across the Solar Energy, Wind Energy, Water Power, and Geothermal Technologies programs. Further, within available funds, the agreement provides \$10,000,000 for development and demonstration of an “energyshed” management system that addresses a discrete geographic area in which renewable sources currently provide a large portion of electric energy needs, where grid capacity constraints result in curtailment of renewable generation, and with very substantial existing deployment of interactive smart meters. The “energysheds” design should achieve a high level of integration resilience and reliability among all energy uses, including both on-demand and long-time energy scales, transmission and distribution of electricity.

Cybersecurity.—Within funds recommended for EERE, not less than \$20,000,000 is provided to bring cybersecurity into early-stage technology research and development so that it is built into new technology.

North American Energy Research.—Within available funds, the agreement provides \$10,000,000 for a consortium of universities in the United States that has established agreements with universities in Canada and Mexico to conduct research on a broad array of energy sources and topics.

Clean Energy Workforce Development.—EERE programs are encouraged to allocate funding to training and workforce development programs that assist and support workers in trades and activities required for the continued growth of the U.S. energy efficiency and clean energy sectors, with an emphasis on training programs focused on building retrofit and the construction industry. The Department is encouraged to continue to work with two-year, community and technical colleges, labor, and non-governmental and industry consortia to pursue job training programs, including programs focused on displaced fossil fuel workers, that lead to an industry-recognized credential in the energy workforce.

Energy Star.—The Department is directed to continue ongoing Energy Star activities in their current form. The Department is reminded that Public Law 115–141 directed a report to review the 2009 Memorandum of Understanding related to the Energy Star Program on whether the expected efficiencies for home appliance products have been achieved. This report has not been received, and the Department has not provided a sufficient update on why the report is delayed. The Department shall provide a briefing to the Committees on Appropriations of both Houses of Congress not later than 30 days after enactment of this Act on the status of the report and is directed to subsequently provide the report.

Reduced Emissions Study.—The Department is directed to conduct a study evaluating potential pathways to reducing emissions from the home and small commercial heating and cooling sector through the use of advanced biofuels and biofuels blends, geothermal district heating and cooling system, electric heat pumps and low-emission refrigerants. The Department is directed to provide this report to the Committees on Appropriations of both Houses of Congress not later than one year after the enactment of this Act.

Zero Emissions Energy Credit.—The fiscal year 2018, 2019, and 2020 Acts required the Department to produce a report to evaluate the effects of a Zero Emissions Energy Credit. The Department is directed to provide this report to the Committees on Appropriations of both Houses of Congress not later than 15 days after the enactment of this Act.

SUSTAINABLE TRANSPORTATION

Vehicle Technologies.—Within available funds, the agreement includes not less than \$175,000,000 for Battery and Electrification Technologies, not less than \$70,000,000 for Advanced Engine and Fuel Technologies, not less than \$40,000,000 for Materials Technologies, and \$66,300,000 for Outreach, Deployment, and Analysis. The agreement provides not less than \$40,000,000 for electric drive research and development, of which not less than \$7,000,000 is to enable extreme fast charging and advanced battery analytics. Furthermore, the agreement includes not less than \$7,000,000 for operations and maintenance of the National Transportation Research Center, including not less than \$2,000,000 for early-stage industry technical collaborations; \$20,000,000 to launch the SuperTruck III program to further improve the energy and freight efficiency of heavy and medium duty long- and regional-haul vehicles; and \$2,500,000 for EcoCAR 4.

Within available funds for Advanced Engine and Fuel Technologies, \$12,500,000 is provided for the Co-Optimization of Engine and Fuels Multi-Laboratory Consortium.

Within available funds for Materials Technology, \$35,000,000 is provided for early-stage research on metals and research on carbon fiber-reinforced composites at the Carbon Fiber Technology Facility.

Within available funds for Outreach, Deployment, and Analysis, the agreement provides \$40,000,000 for deployment through the Clean Cities Program. The Department is encouraged to foster broader adoption of clean vehicles and installation of supporting infrastructure. The Department is encouraged to explore ways in which the Clean Cities Program can leverage funding to provide greater support for electrification efforts. Within Outreach, Deployment, and Analysis, but outside of the Clean Cities Program, \$20,000,000 is for up to five competitive grant awards to develop Electric Vehicle Community Partner Projects. Further, the Department is directed to submit to the Committees on Appropriations of both Houses of Congress not later than 180 days after the enactment of this Act a plan for establishing and implementing a Clean School Bus Grant Program. The plan shall prioritize awards of funds to school districts serving disadvantaged communities and those that are located in air quality non-attainment areas and include options for contracting, schedule, and funding that extend resources to the greatest number of school districts and students. Further, the Department is encouraged to collaborate with the Department of Transportation and the U.S. Environmental Protection Agency.

The agreement provides \$10,000,000 to continue to support improving the energy efficiency of commercial off-road vehicles, of which up to \$5,000,000 is for fluid power systems. The funds shall be awarded through a competitive solicitation in which university and industry teams are eligible to apply. The agreement further provides \$15,000,000 to address technical barriers to the increased use of natural gas vehicles 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, natural gas storage natural gas engines, and fueling infrastructure optimizations. In Public Law 115-244, the Department was directed to undertake a study on natural gas vehicle deployment in on- and off-road transportation, which has not yet been provided. The Department is directed to provide an update on the status of this study and subsequently provide this study.

The agreement further provides \$5,000,000 for research on direct injection, engine technology, and the use of dimethyl ether as fuel, and encourages continued research and development as appropriate in advanced combustion and vehicle engine technology efficiency in propane engines used for light and medium-duty applications.

Within available funds, \$5,000,000 is provided to support research and development on two-stroke opposed piston engines to be conducted by industry-led teams. The agreement provides \$10,000,000 for section 131 of the 2007 Energy Independence and Security Act for transportation electrification.

The Department is directed to conduct a study on how to increase the reuse, recycling, and manufacturing of electric vehicle batteries in the United States. The Department is directed to provide this study to the Committees on Appropriations of both Houses of Congress not later than 180 days after the enactment of this Act.

The Department is encouraged to continue outreach and deployment activities of renewable natural gas and natural gas-powered vehicles.

The Department is encouraged to continue efforts to improve cost, performance, and charging time of plug in vehicles. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 270 days after the enactment of this Act a report with recommendations to enhance domestic manufacturing battery technologies to include recommendations on reducing the size of vehicle batteries and reducing the use of cobalt.

The agreement recognizes the need for clarity regarding the availability, affordability, and reliability of direct current fast chargers for electric vehicles. 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 technologies and calculation methods that meet the tentative code for EV charger metering and testing published in the National Institute of Standards and Technology Handbook 44, Section 3.40.

The Department is encouraged to continue the Programs for Energy Efficient Mobility Systems, Batteries, Charging, & Electric Vehicles, and Technology Integration. These investments, which include initiatives in SMART Mobility and Big Data Solutions for Mobility, are critical to expanding U.S. energy security, economic vitality, and quality of life. Therefore, the agreement supports continued funding for research that allows the U.S. to continue its leadership in advancing state-of-the-art transportation systems science and technology. The Department is encouraged to conduct early stage research to lower the cost of batteries for electric vehicles, including research on extreme fast charging.

With an abundant source of low-cost domestic natural gas, this resource as a transportation fuel is becoming an alternative fuel of choice for high fuel use fleets and off-road vehicles and provides a substantial reduction in nitrogen oxide emissions. Further research is needed on natural gas storage, engines, and fueling infrastructure optimization.

Bioenergy Technology.—Within available funds, the agreement provides not less than \$40,000,000 for Feedstock Technologies, not less than \$40,000,000 for Advanced Algal Systems, \$110,000,000 for Conversion Technologies, \$50,000,000 for System Development and Integration, and \$9,500,000 for Data, Modeling, and Analysis. The Department is directed to recognize all commercially available feedstock in their research projects.

Within funds for Feedstock Technologies, \$5,000,000 is provided for upgrades at the Biomass Feedstock National User Facility.

Within available funds for Advanced Algal Systems, \$10,000,000 is provided to continue research and development activities to support carbon dioxide capture from the atmosphere into highly alkaline solutions using algae-to-energy technologies. The Department is directed to continue collaboration with the Office of Science and the Office of Fossil Energy in this area.

Within available funds for Conversion Technologies, \$20,000,000 is provided to continue activities of the Agile Biology Foundry. The Department is directed to continue efforts to make full and innovative use of biomass, municipally derived biosolids, and other carbon already available and impacting the environment, such as municipal solid waste, plastics, and livestock waste. The agreement provides \$5,000,000 to demonstrate the use of and improve the efficiency of community-scale digesters.

Within available funds for System Development and Integration, \$37,500,000 is provided to support the multiyear strategy for pre-pilot, and demonstration projects

Within available funds, not less than \$12,500,000 is recommended for the Co-Optimization of Engine and Fuels Multi-Laboratory Consortium.

Within available funds, \$5,000,000 is provided to develop and test new domestic manufactured low-emission, high efficiency, residential wood heaters, and \$10,000,000 is provided to perform research and development to advance the deployment of conversion processes to advance the supply of renewable natural gas as a clean fuel option.

The agreement reiterates House direction regarding continued research on carbon storage in forest lands.

The Department is encouraged to focus on defining and meeting technical targets that reduce cost of sustainable aviation fuels through the conversion of low-cost waste carbon as feedstocks. These efforts should consider relevant global supply chains and should be coordinated with other Federal agencies, the aviation industry, national laboratories, and universities.

Hydrogen and Fuel Cell Technologies.—Within available funds, the agreement provides \$25,000,000 for Fuel Cell Technologies, \$70,000,000 for Hydrogen Technologies, and \$35,000,000 for Systems Development and Integration. The agreement recommends not less than \$45,000,000 for technologies to advance hydrogen use for heavy-duty transportation and industrial applications.

Within available funds for Systems Development and Integration, the agreement provides \$3,000,000 for manufacturing research and development; up to \$10,000,000 for manufacturing research development with a focus on fuel cell stack manufacturing cost reduction; \$7,000,000 for industry-led efforts to demonstrate a hydrogen-focused integrated renewable energy production, storage, transportation fuel distribution and retailing system, and fuel cell system development; and \$3,000,000 for research on in-situ metrology for process control systems for manufacturing of key hydrogen system components. The Department is encouraged to engage with industry on codes and standards for developing fuel cell and hydrogen markets such as heavy-duty trucks. The Department is also encouraged to continue coordination between U.S. and international standard bodies to ensure there is one set of open (non-proprietary) global standards for fuel cell and hydrogen technologies.

Within available funds, \$15,000,000 is provided for high temperature electrolysis research and development and to cost share the Office of Nuclear Energy hydrogen demonstration activities.

The provides not less than \$80,000,000 for these H2@Scale activities.

The Department shall continue research on novel onboard hydrogen tank systems, as well as trailer delivery systems to reduce cost of delivered hydrogen. Further, the Department is directed to support research and development activities that reduce the use of platinum group metals, provide improvements in electrodes and membranes and balance-of-plant components and systems.

The Department is encouraged to conduct regular consultation with industry to avoid duplication of private-sector activities and ensure retention of fuel cell technology and systems development in the United States.

The Secretary is encouraged to work with the Department of Transportation and industry on coordinating efforts to deploy hydrogen fueling infrastructure.

RENEWABLE ENERGY

Solar Energy.—The agreement provides not less than \$60,000,000 for Concentrating Solar Power, not less than \$72,000,000 for Photovoltaic Technologies, \$46,500,000 for Systems Integration, \$35,000,000 for Balance of Systems Soft Cost Reduction, and not less than \$60,000,000 for Manufacturing and Competitiveness.

Within available funds for Concentrating Solar Power, \$5,000,000 is provided for a demonstration on advanced thermal desalination technologies.

Within available funds for Balance of Systems Soft Costs, \$5,000,000 is for the National Community Solar Partnership program. The Department is directed to align the National Community Solar Partnership Program with other existing federal programs that serve low-income communities. The Department is further directed to provide technical assistance to states and local and tribal governments for projects to increase community solar, including assistance in the development of new and innovative financial and business models that leverage competition in the marketplace in order to serve community solar, and to use national laboratories to collect and disseminate data that assists private entities in the financing of, subscription to, and operation of community solar projects.

Within available funds for Manufacturing and Competitiveness the agreement provides \$20,000,000 for research and development focused on perovskites, including inherently scalable production methods, such as solution processing, roll-to-roll manufacturing, the science of inherent material stability, and ultra-high efficiency through tandem manufacturing. Additionally, the agreement provides \$20,000,000 for research and development focused on cadmium telluride based solar cell technologies. The Department is directed to provide a briefing to the Committees on Appropriations of both Houses of Congress not later than 120 days after the enactment of this Act on its efforts to work cooperatively with industry, university, and laboratory partners and efforts to develop strategies and technologies to support the continued evolution and success of cadmium telluride based solar cell technologies. The briefing shall include an

outline of a research roadmap to demonstrate how this domestic industry can remain competitive globally while ensuring that cadmium telluride is produced as part of a robust American supply chain and include how funds provided in fiscal year 2020 were used for cadmium telluride technologies.

Within available funds, the agreement provides \$1,500,000 for competitively selected projects focused on floating solar powered aeration systems.

In coordination with the Offices of Solar Energy Technologies, Strategic Program, Wind Energy Technologies, and Electricity, the Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 240 days after the enactment of this Act a report exploring the impact of alternative rate design options in scenarios with high penetrations of variable renewable energy.

The Department is encouraged to develop modeling and planning tools for distributed energy resources and continue its focus within SunShot on the resilience and reliability of solar systems, as well as continue and expand programs to reduce both market barriers and soft costs, including through research on market and regulatory analysis and new techno-economic tools and methodologies for distributed energy resources.

The Department is encouraged to continue work to improve co-siting of solar photovoltaics with ecosystem restoration activities and to reduce the environmental impact of solar photovoltaics.

The Department is encouraged to develop programs that support a skilled, robust, and diverse solar energy workforce, including indirect solar workers in jobs related to financing and permitting.

The Department is encouraged to continue research and development of solar power technologies and the potential for expansion across the rural landscape. Programs such as the Community Solar Power Choice Program may offer pathways to achieve both greater energy independence and support for rural communities. Therefore, further research is required to determine best methods to improve generation and access to markets through transmission and distribution while incentivizing landowner economic participation. In addition, the Department is encouraged to consult with the Department of Agriculture to examine opportunities for collaboration toward this shared objective.

Wind Energy.—The agreement provides \$31,800,000 for Land-Based Wind, \$63,200,000 for Off-Shore Wind, \$10,000,000 for Distributed Wind, and \$5,000,000 for Grid Integration and Analysis.

Within available funds, the agreement includes \$1,000,000 for the Wind for Schools Program, and \$15,000,000 to continue work on the next generation, high-efficiency lightweight turbine generators.

The Department is directed to support the advancement of innovative technologies for offshore wind development including freshwater, deep water, shallow water, and transitional depth installations. Further, the agreement recommends not less than \$30,000,000 for the Department to prioritize early-stage research on materials and manufacturing methods and advanced components that will enable accessing high quality wind resources, on research and development that will enable these technologies to compete in the marketplace without the need for subsidies, and on activities that will accelerate fundamental offshore specific research and development such as those that target technology and deployment challenges unique to U.S. waters.

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 that outlines regional and national strategies to accelerate and maximize the effectiveness, reliability, and sustainability of U.S offshore wind deployment and operation with partners from institutions of higher education, research institutions, national laboratories, the private sector, and state and local governments. The study shall address the need for expanded work in this area to potentially include an additional offshore wind consortium.

In addition, the Department is directed to support innovative offshore wind demonstration projects to optimize their development, design, construction methods, testing plans, and economic value proposition. The agreement recommends not less than \$10,000,000 to support additional project development and pre-construction activities for offshore wind demonstration projects to help ensure success.

The Department is directed to give priority to stewarding the assets and optimizing the operations of the Department-owned wind energy research and development facilities. Within available funds, the agreement recommends not less than \$30,000,000 for the National Wind Technology Center and not less than \$5,000,000 for research and operations of the Integrated Energy System at Scale.

The Department is encouraged to prioritize distributed wind technologies that reduce costs and improve performance and to collaborate with industry to invest in the development and demonstration of technologies and practices that advance distributed wind.

Research using high-performance computing, modeling and simulation, including improved models can be used to understand atmospheric and wind power plant flow physics, and reliability and grid integration efforts.

Water Power.—The agreement provides \$109,000,000 for Marine and Hydrokinetic Technologies and not less than \$41,000,000 for Hydropower Technologies. The agreement supports research and development, testing, and partnership activities for the Powering the Blue Economy Initiative and provides not less than \$24,000,000 for these activities. The Department is directed to use existing core capabilities within its national laboratories to execute this work, in partnership with universities and industry. The Department is encouraged to use existing authorities to waive cost share for small businesses and maximize competitively awarded solicitations for industry-led research and development initiatives and project deployment. The Committee recognizes the challenges of decarbonizing remote communities and the maritime sector. The Department is encouraged to focus on activities addressing the integration of clean energy systems for remote communities and port electrification, including the demonstration of marine, distributed wind, solar, energy storage, improved microgrids, and local production of zero-carbon fuels.

Within funding for marine and hydrokinetic technologies, \$60,000,000 is for a balanced portfolio of competitive solicitations to support industry- and university-led research, development, demonstrations and commercialization of wave and current (ocean, river, tidal) systems and component technologies to increase energy capture, reliability, survivability, and integration into local or regional grids for lower costs and to assess and monitor environmental effects. The Department is encouraged to consider the need to create a pipeline of well-trained students when determining competitive solicitations.

The agreement recommends not more than \$10,000,000 is for the Testing Expertise and Access for Marine Energy Research Program and related infrastructure investments.

Within available funds, up to \$10,000,000 is provided to address infrastructure needs at marine energy technology testing sites. 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 agreement provides up to \$5,000,000 to continue operations at the Atlantic Marine Energy Center.

The agreement provides not less than \$15,000,000 for hydropower and pumped storage modernization initiatives, including technologies, models, and analytical capabilities to support integration of intermittent generation, increase grid resilience and reliability, and improve access to electricity in remote communities or those with inadequate service. Within available funds, \$3,000,000 is provided to identify opportunities for improvements in hydropower infrastructure, operations, and methods of deployment to provide benefits to other managed water systems, such as irrigation and municipal water supply.

Within available funds, the agreement provides \$5,000,000 for small hydropower technology innovation, testing, and initiatives. The agreement also recommends funding for new data collection and analysis to improve operations and maintenance by better understanding the impacts of changing operations on equipment failure rates, reduced availability and costs, including long-term and short-term inflow modeling work.

Within available funds, \$1,500,000 is provided to accelerate development and demonstration of environmental mitigation technologies to address dissolved oxygen, water quality and fish passage, including for invasive species management.

Within available funds, \$5,000,000 is provided for the environmental analyses and engineering of potential run-of-river hydrokinetic facilities at two sites with high electricity costs and diesel use, as determined by the Department. Funding may be used for such related field work, engineering, and analysis necessary for a future Federal Energy Regulatory Commission License.

The Department is encouraged to continue science and modeling efforts to advance hydroelectric turbine design to increase energy production while reducing environmental impacts, including field data collection and improvements to fish tagging technology.

Geothermal Technologies.—The agreement provides not less than \$64,000,000 for Enhanced Geothermal Systems, \$20,000,000 for Hydrothermal Resources, \$15,000,000 for Low Temperature and Coproduced Resources, and \$6,000,000 for Data, Modeling, and Analysis. The agreement provides \$10,000,000 for the Wells of Opportunity Program.

Within available funds, \$10,000,000 is provided to fund at least one demonstration project in an area with no obvious surface expression. The Department is further directed to fund at least one demonstration of geothermal technologies for innovative distribution of heat through ground-source heating and cooling of district heating.

ENERGY EFFICIENCY

Advanced Manufacturing.—The agreement provides \$25,000,000 for the Energy-Water Desalination Hub, \$25,000,000 for the Critical Materials Institute, and \$25,000,000 for the Manufacturing Demonstration Facility (MDF) and the Carbon Fiber Technology Facility. Within available funds for MDF, \$5,000,000 is provided for the development of processes for hybrid materials solutions with prescribed microstructural and mechanical properties to enable precise property profiles for born qualified and certified components. Funding is necessary to improve and increase activities at all levels of the critical materials supply chain, including technologies for mining and metallurgy. Furthermore, water and energy are critical resources that are inextricably linked, and that understanding the interdependencies and vulnerabilities is increasingly critical for the Department's mission.

The Committee provides \$28,000,000 for the Clean Energy Manufacturing Innovation Institutes (CEMI). Within available funds, the agreement provides \$14,000,000 for the final year of funding for the recently awarded Cybersecurity in Energy Efficient Manufacturing Institute. Furthermore, within available funds, \$14,000,000 is provided to create one new institute. CEMIs are integral to the growth and security of the Nation's manufacturing base and the REMADE Institute, specifically its five distinct research areas. However, the agreement objects to the Department's attempts to change originally agreed upon and awarded areas of CEMI focus. The Department shall not require a CEMI, like REMADE, to spend appropriated funds without a specific timeframe that does not best support ongoing research and development. To that end, of amounts previously appropriated, not more than \$15,000,000 of awarded funds in the fourth round of solicitations shall be committed to the Plastics Innovation Challenge. The Department is directed to provide a briefing to the Committees on Appropriations of both Houses of Congress not later than 60 days after the enactment of this Act on its efforts to support ongoing projects at CEMIs.

The agreement provides not less than \$5,000,000 for improvements in the steel industry.

The agreement provides \$20,000,000 for process-informed science, design, and engineering materials and devices in harsh environments, including nuclear environments, and \$10,000,000 for dynamic catalyst science coupled with data analytics.

The agreement provides \$45,000,000 for Industrial Technical Assistance. Within this amount, the agreement provides \$12,000,000 for Combined Heat and Power (CHP) Technical Assistance Partnerships (TAPs), including \$5,000,000 for the TAPs and \$7,000,000 for CHP activities; \$12,000,000 for 32 Industrial Assessment Centers (IACs); and \$5,000,000 for wastewater treatment technical assistance. The Department is encouraged to expand on the technical assistance provided by the IACs to address these needs, including by equipping the directors of the IACs with the training and tools necessary to provide technical assistance on energy savings to these facilities.

The agreement provides \$20,000,000 for research and development on technologies to achieve energy efficiency of water and wastewater treatment plants as provided in the House report.

Within available funds, \$10,000,000 is provided for the development of advanced tooling for lightweight automotive components to lead the transition to electric vehicle and mobility solutions to meet the national urgency for market adoption. This funding shall also support activities to carry out industry outreach to identify and report on the breadth of need and potential applicants for such grants.

Within available funds, the agreement provides not less than \$10,000,000 for continued work on battery manufacturing research and development that includes strong end user participation.

The agreement provides up to \$10,000,000 for the issuance of a competitive solicitation for university or industry-led teams to improve the efficiency of industrial drying processes and foster new and innovative drying technologies.

The agreement provides \$4,000,000 for additive manufacturing work on large wind blades that will allow for rapid prototyping, tooling, fabrication, and testing. Further, \$7,000,000 is provided for additive manufacturing of wind turbine components and \$18,000,000 is provided for advanced wind turbine blade manufacturing research including additive composite tip technology, automation, and sustainability. Within available funds, the agreement provides \$5,000,000 for the development of thermoplastic resin systems research for wind turbine manufacturing.

The agreement provides \$5,000,000 to continue to develop and industrialize a low-cost polymer infiltration process for the fabrication of silicon carbide components. The agreement recognizes the Department's expertise in developing materials and processes for very high temperature applications. Silicon carbide ceramic matrix composites are a proven, capable material for high temperature applications.

The agreement provides not less than \$5,000,000 to apply the Office of Science's leadership computing facility expertise in machine learning to increase efficiencies in large scale, high rate, aerostructures manufacturing. The Department is encouraged to leverage best practices from large-scale, high-rate commercial composite aerostructure manufacturing.

Within available funds, the Committee recommends not less than \$10,000,000 to support research, development, and demonstration projects to advance the development and commercialization of direct air capture technologies. The program is directed to continue collaboration with the Office of Science and the Office of Fossil Energy in this area.

The agreement provides \$5,000,000 for continued work on the development of aluminum alloy.

The Department is directed to further foster the partnership between the national laboratories universities, and industry to use bio-based thermoplastics composites, such as micro-and nanocellulosic materials, and large-area 3-D printing to overcome challenges to the cost and deployment of building, transportation, and energy technologies. The agreement provides \$20,000,000 to continue the development of additive manufacturing involving nanocellulosic feedstock materials made from forest products to overcome challenges to the cost and deployment of building, transportation, and energy technologies, and encourages the Department to leverage expertise and capabilities for large-scale additive manufacturing through partnerships between universities and the MDF.

The agreement provides \$10,000,000 for district heating, within which the Department shall make grants to support capital construction costs of demonstration projects that deploy community district energy projects in association with a renewably fueled municipal generating station. The Department is reminded that biomass is a viable energy source for district energy and directs the Department to take that into consideration in its funding opportunity announcements

The agreement provides \$5,000,000 to continue technology development to convert lithium chloride from geothermal brine into lithium hydroxide that will inform the design of a commercial-scale facility that will both extract lithium from geothermal brine and convert the lithium in geothermal brine into the lithium hydroxide.

Within available funds, the agreement provides \$10,000,000 to continue the development of alternatives to fossil fuel-based process heating technologies for use in manufacturing, including technologies that could be used to reduce emissions from industrial drying processes.

The agreement recognizes that meeting growing global demands for the use of more sustainable chemistry in consumer and commercial products has the potential to create significant economic opportunities for U.S. manufacturing that can be enhanced by ensuring that sustainability factors are considered in new chemicals development. Within available funds, \$5,000,000 is provided for activities to support chemistry research and development. 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 exploring how incorporating sustainable chemistry in consumer and commercial manufacturing processes fits within its research and development portfolio.

The Department is directed to produce a report on the opportunities for technological development in the production of advanced Si-C anode materials for Li-ion batteries and how the Department would promote integration of a domestic supply chain. The Department is directed to provide this report to the Committees on Appropriations of both Houses of Congress within 90 days after the enactment of this Act.

The Department has not produced the national smart manufacturing plan directed in Public Law 115-244 and is directed to provide this plan to the Committees on Appropriations of both Houses of Congress not later than 60 days after the enactment of this Act.

Building Technologies.—The agreement provides \$40,000,000 for Residential Buildings Integration, \$50,000,000 for Commercial Buildings Integration, \$140,000,000 for Building Energy R&D, also known as Emerging Technologies, and not less than \$55,000,000 for Equipment and Building Standards. Within funds for Equipment and Building Standards, not less than \$10,000,000 is provided for Building Energy Codes. The Department is missing legal deadlines for over 25 energy efficiency standards mandated by Congress. The Department is directed to finalize these standards as soon as practicable and report to the Committees on Appropriations of both Houses of Congress not later than 30 days after the enactment of this Act on the status of each of these standards and any funding or staffing barriers to finalizing these standards.

The agreement directs the Department to maintain existing transactive control research efforts and provides not less than \$30,000,000 for building-grid integration research and development consistent with a transactive energy system and in coordination with the Office of Electricity transactive energy systems program, integration of renewable energy assets, such as photovoltaics, associated hardware and software development, and the establishment of a living-learning laboratory that integrates education for training of new and current professionals.

Within available funds, \$8,000,000 is provided to continue promoting regional demonstrations of new, utility-led, residential Connected Communities advancing smart grid systems. Further, within funds available for Building Energy R&D, the agreement provides not less than \$18,000,000 for heating, ventilation, and air conditioning and refrigeration R&D, including sourced heat pumps, water heaters, and boilers.

Within funds for Building Energy R&D, the agreement provides \$14,000,000 for Building Envelope and \$5,300,000 for Building Energy Modeling. The Department is encouraged to include field evaluation efforts in these programs. Further, the Department is encouraged to focus R&D efforts to address whole building energy performance and cost issues for air source heat pumps to inform efforts to advance electrification without compromising building energy performance.

Within available funds, \$25,000,000 is provided 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 shall be made available to fund the prize or additional projects for solid-state lighting research and development.

Within available funds, \$5,000,000 is provided for novel earlier-stage research, development, and demonstration of technologies to advance energy efficient, high-rise Cross-Laminated Timber (CLT) building systems. The Department is directed to support university research in partnership with national labs, for developing, building, and evaluating CLT wall systems for embodied energy content, operating energy efficiency, wall moisture profiles, structural connector durability, and health monitoring systems.

Within available funds, the agreement provides \$10,000,000 for a competitive solicitation focused on the development and integration of energy efficient building techniques and technologies suitable for environments with extremely high or low temperatures. Priority shall be given to applicants with prior experience serving low-income residents living in extreme environments.

The agreement provides \$5,000,000 to continue to demonstrate the use of ice storage technology to enable load-shifting to offset electrical grid capacity peaks at lower costs than electrochemical storage at public-use buildings such as state office buildings, hospitals, and schools.

The agreement supports continued innovative housing research that encourages the design, construction, and retrofitting of energy efficient, fire resistant, and resilient residential homes and commercial buildings, and encourages the Building America Program to prioritize funding for resiliency solutions that also meet the energy code and reach codes. The Department is encouraged to collaborate with national laboratories, industry, other agencies, community-based organizations, and local communities that are making notable progress in developing construction techniques, building materials, and building assemblies to address risks presented by wildfires.

The Department is encouraged to continue to explore research and development that can advance future natural gas and propane gas systems and appliances to meet consumer demand for high efficiency and environmentally friendly products. The agreement recommends continued research, development, and market transformation programs on energy efficiency efforts related to the direct use of natural gas and propane gas in residential applications, including gas heat pump heating with power generation and water heating, on-site combined heat and power, and gas appliance venting, and on site (micro) combined heat and power to include integration with renewables.

Thermally driven heat pumps [THPs] offer the next generation of space conditioning and/or water heating for low-load buildings and have the potential to reduce greenhouse gas emissions by 40 percent or greater from a condensing gas efficiency baseline. Further work is needed to test and evaluate these technologies in the field. The Department is encouraged to establish a Thermal Heat Pump Consortium, led by a non-profit, to integrate and deploy new THP technologies in a joint industry partnership. The Department is directed to provide a briefing to the Committees on Appropriations of both Houses of Congress not later than 90 days after the enactment of this Act regarding the potential need for a consortium.

Federal Energy Management Program.—The agreement provides \$2,000,000 for the Performance-Based Contract National Resource Collaborative Initiative and reiterates House direction regarding a report. The agreement provides \$11,000,000 for the Assisting Federal Facilities with Energy Conservation Technologies program.

Weatherization and Intergovernmental Program.—The agreement provides \$310,000,000 for Weatherization Assistance Grants, \$5,000,000 for Training and Technical Assistance, and \$62,500,000 for the State Energy Program. Within available funds, \$500,000 is provided for technical assistance to continue the Sustainable Wastewater Infrastructure of the Future Accelerator. Within available funds, the agreement provides \$1,000,000 for WAP grant recipients that have previously worked with the Department through the Weatherization Innovation Pilot Program to now implement and demonstrate programs to treat harmful substances, including vermiculite, at the state and regional level.

The agreement provides \$1,500,000 within funds for technical assistance to create a pilot that supports community and neighborhood scale weatherization, including the feasibility of integrating renewable and alternative energy infrastructure, and reiterates House direction on this matter and regarding a report.

The Department is encouraged to work with all relevant stakeholders to identify efficiencies for delivering weatherization services and examine options to streamline policies and procedures when other funding sources are used, such as Low Income Home Energy Assistance Program (LIHEAP) funds in conjunction with funds from the Department. Further, a top priority shall be to provide federal funds in a timely manner to avoid any undue delay of services to eligible low-income households, and to encourage local high-impact energy efficiency and renewable energy initiatives and energy emergency preparedness. Similarly, it is important for states to provide funding to local weatherization implementers as quickly as appropriate, and for the local providers to implement projects as quickly as possible.

The Department's continued participation in the interagency working group on Healthy Homes and Energy is appreciated, and the Department is encouraged to further coordinate with the Office of Lead Hazard Control and Healthy Homes on energy-related housing projects. The Department is directed to track the occurrence of window replacements, which supports the reduction of lead-based paint hazards in homes.

Strategic Programs.—The agreement provides \$3,000,000 for the Energy Transition Initiative to develop a cross-sector initiative alongside community-based organizations pursuing energy transition efforts that will address energy challenges, build capacity, accelerate the sharing of best practices and innovations between similarly-situated regions, and to leverage specialized, local expertise into commercial opportunity. The Department is directed to support community-based initiatives by partnering with community-based organizations and leverage the Department's previously developed tool to build cost-effective resilient energy infrastructure on island and remote communities.

Facilities and Infrastructure.—The Department is directed to proceed with project engineering and design for the Energy Materials and Processing at Scale research capability at the National Renewable Energy laboratory. Not less than \$6,000,000 is recommended for Other Project Costs and to commence Project Engineering and Design.

CYBERSECURITY, ENERGY SECURITY, AND EMERGENCY RESPONSE

The agreement provides \$156,000,000 for Cybersecurity, Energy Security, and Emergency Response.

Additional direction related to Department-wide crosscutting initiatives is provided under the heading Crosscutting Initiatives in the front matter of Department of Energy.

The Department is directed to collaborate with other federal agencies on cybersecurity efforts to ensure effective contributions to the overall success of the federal critical infrastructure security mission.

The agreement places a high priority on ensuring the protection of the grid against cyberattacks and extreme weather events caused by climate change.

Many different actors, governmental and private, play a role in preventing and responding to threats to the nation's energy infrastructure. The Department is expected 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.

Grid security and resiliency are issues of paramount importance to national security. The nation continues to face global cybersecurity threats from nations such as Iran, Russia, and North Korea, which have launched documented cyberattacks against the country. U.S. electric grid infrastructure remains a top target, and the Department is encouraged to work with electric cooperatives, public utility districts, investor-owned utilities, and municipal utilities to plan and build out needed cybersecurity infrastructure.

The agreement notes the use of an advanced cyber analytics tool currently utilized within the Department that maps classified and unclassified networks, and the Department is encouraged to consider this tool for other applications within the Department, as appropriate.

The agreement notes support for the extension of cyber-risk information sharing tools to close remaining vulnerabilities in the distribution and transmission system. The Department is encouraged to continue existing work within ongoing programs and to invest in research addressing power system vulnerabilities in supply chain and life cycle management for critical power system components and advanced adaptive defensive methods for grid control systems.

The agreement notes support for departmental initiatives focused on cybersecurity risk information-sharing and secure data anonymization and analysis for both operational and information technology components of equipment commonly utilized in both the bulk power system and distribution systems. The Department is encouraged to prioritize enrolling under-resourced electric utilities in such programs, particularly rural electric cooperatives and municipally-owned entities.

Within available funds for Cybersecurity for Energy Delivery Systems (CEDS), the agreement provides \$5,000,000 for Consequence-driven Cyber-informed Engineering.

Within available funds for CEDS, the agreement provides \$10,000,000 for the DarkNet project to explore opportunities for getting the nation's critical infrastructure off the internet and shielding the nation's electricity infrastructure from disruptive cyber penetration, including expansion of the communications network architecture and development of cutting-edge networking technologies. This effort shall be closely coordinated with the Office of Electricity.

Within available funds for CEDS, the agreement provides \$4,000,000 for university-based R&D of scalable cyber-physical platforms for resilient and secure electric power systems that are flexible, modular, self-healing, and autonomous.

Within available funds for CEDS, the agreement provides up to \$10,000,000 to establish a network of university-based, regional electric power cybersecurity centers. The centers should address interrelated research and development challenges of cybersecurity and critical energy infrastructure and develop a trained, globally competitive workforce. The centers should be distributed regionally across the country to leverage regional utilities, national laboratories, and regulatory bodies and consider the distinctive characteristics of each region's electricity system, network of infrastructure, and workforce expertise.

Within available funds for CEDS, the agreement supports a pilot project to demonstrate cybersecurity best practices and collaborations in deploying and operating cybersecure electric vehicle charging facilities.

Within available funds for Infrastructure Security and Energy Restoration, the agreement provides not less than \$6,000,000 for the continued advancement of EAGLE-I to further develop energy sector situational awareness capabilities.

The Department has refused to provide both factual and timely information or notification to the Committees on Appropriations of both Houses of Congress regarding the leasing of space for a Department of Energy Integrated Security Center, which has not been requested by the Administration in any prior budget request. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 30 days after enactment of this Act a briefing to convey the purpose of this project and mission need; details regarding the lease, including length and cost of obligated and future funding needs; and current and future staffing plans.

ELECTRICITY

The agreement provides \$211,720,000 for Electricity.

Additional direction related to Department-wide crosscutting initiatives is provided under the heading Crosscutting Initiatives in the front matter of Department of Energy.

The agreement supports planning and contingency analyses that address vulnerabilities in the North American energy system. This work will help to identify transmission infrastructure investments, strategic uses and placement of energy storage systems, and other strategies to help mitigate risk and ensure the security and resilience of the grid.

Within available funds for Transmission Reliability and Resilience, the agreement provides \$5,000,000 for the Grid Research Integration and Demonstration Center to advance technologies in support of modernizing the electric delivery system and understanding the Nation's electricity infrastructure using real-time data.

The agreement supports continued investment in advanced grid modeling algorithms and tool development to ensure resilient grid controls and protection systems that meet the challenges of the emerging smart grid.

The fiscal year 2020 Act directed the Department to provide a report outlining the barriers and opportunities for technologies that provide increased, more efficient, or more effective delivery over the existing transmission network. The Department is directed to provide the report not later than 30 days after enactment of this Act.

Within available funds for Resilient Distribution Systems, the Department is directed to continue efforts to support the integration of sensors into the nation's electric distribution systems, fundamental research and field validation of microgrid controllers and systems, and transactive energy concepts, including studies and evaluations of energy usage behavior in response to price signals. A high priority should be placed on addressing challenges that could compromise the electric power grid by developing the innovative technologies, tools, and techniques to modernize the distribution portion of the electricity delivery system. Further, the Department should continue to pursue strategic investments to improve reliability, resilience, outage, recovery, and operational efficiency, building upon previous and ongoing grid modernization efforts. In addition to emerging fuel technologies for distributed grids, the Department should evaluate fuels commonly available across the United States, such as propane and other diesel alternatives. The Department is directed to focus on identifying and addressing technical and regulatory barriers impeding grid integration of distributed energy systems to reduce energy costs and improve the resiliency and reliability of the electric grid and funds provided for the Advanced Grid Integration Division for these activities. The agreement supports advanced control concepts and open test beds for new distribution control tools for enhanced distribution system resilience.

Within available funds for Resilient Distribution Systems, the agreement provides \$10,000,000 for the COMMANDER (Coordinated Management of Microgrids and Networked Distributed Energy

Resources) National Test Bed Laboratory to establish a data link for a back-up operations center that can benefit utility companies across the country and support the North American Energy Resilience Model.

Within available funds for Resilient Distribution Systems, the agreement provides \$5,000,000 for a demonstration project with the Department's Grid Sensors and Sensor Analytics program. The demonstration should include a focus on utilizing data from distribution utilities that have deployed advanced metering infrastructure.

Within available funds for Energy Storage, the Department should continue to support development of an operational energy storage test facility capable of performance-driven data in a utility environment. The Department is encouraged to allocate resources to provide training and technical assistance to firefighters and code inspectors on battery storage, such as through scenario-based in-person or online training. The agreement is supportive of research for novel materials and system components to resolve key cost and performance challenges for electrochemical energy storage systems based on earth abundant advanced chemistries. In addition, the agreement supports continued materials research that will improve the understanding and predictability of energy storage systems and components, as well as enable safer and more reliable materials and systems to be developed.

Within available funds for Energy Storage, the agreement provides not less than \$5,000,000 for battery storage demonstration projects that are located in areas where grid capacity constraints result in curtailment of renewable generation; improve grid resilience for a public utility that is regularly affected by weather related natural disasters; and provide rate reduction and renewable energy benefits to businesses, farms, and residents in an economically-stressed rural area. Direct storage from solar generation may also be incorporated.

With available funds for Energy Storage, the agreement provides for not less than one pilot energy storage project that demonstrates business model innovation targeted at cost-effective deployment through aggregation in rural electric cooperatives. The Department is encouraged to focus on reducing the soft costs of novel project design and optimization and developing legal and power purchase model agreements that can be replicated in cooperatives elsewhere in the nation, reducing future costs for deployment of energy storage projects.

Within available funds for Transformer Resilience and Advanced Components, the Department is directed to continue to support research and development for advanced components and grid materials for low-cost power flow control devices, including both solid-state and hybrid concepts that use power electronics to control electromagnetic devices and enable improved controllability, flexibility, and resiliency. The Department is directed to support research and development to find safe and effective capture and reuse technologies, or safe and effective alternatives, for the use of sulfur hexafluoride in power generation and transmission equipment, including circuit breakers, switchgear, and gas insulated lines.

NUCLEAR ENERGY

The agreement provides \$1,507,600,000 for Nuclear Energy. The agreement prioritizes funding for programs, projects, and activities that will ensure a strong future for nuclear power in the United States. The Department can and should play a more active role in supporting the revitalization of the U.S. nuclear industrial base. Without a clear vision and broad commitment across government and industry, nuclear power in the United States will become nonexistent.

Additional direction related to Department-wide crosscutting initiatives is provided under the heading Crosscutting Initiatives in the front matter of Department of Energy.

The agreement continues to include additional control points for fiscal year 2021, and the Department is directed to submit its fiscal year 2022 budget request using this budget structure.

The Department, in consultation with the National Nuclear Security Administration, is directed to contract with the National Academy of Sciences (NAS) not later than 60 days after enactment of this Act to conduct a comprehensive, independent study on the non-proliferation and security risks and international safeguards challenges associated with advanced nuclear reactors and related fuel cycle technologies. The NAS shall convene a committee whose members have expertise in advanced nuclear reactors, nuclear non-proliferation and security, enrichment and reprocessing, and other areas of expertise that the NAS deems essential for completion of the study. The NAS committee's consensus study report shall also provide findings and recommendations that may consider policy options as long as the recommendations do not involve non-technical value judgments. The study shall include assessments of the proliferation implications of high-assay low-enriched uranium, uranium-plutonium mixed oxide fuel, and advanced fuel cycles that require separating plutonium from spent fuel. The study shall also address the extent to which advanced reactors and associated fuel cycle facilities, in their design and operations, support International Atomic Energy Agency safeguard activities, particularly those related to nuclear material accounting and control as well as containment, surveillance, monitoring, and timeliness of detection of diversion. Advanced reactor technologies shall include the designs under consideration by the Generation IV International Forum and by the Department and any related fuel cycle technologies. The study shall be submitted to the Committees on Appropriations of both Houses of Congress not later than 18 months after the Department and NAS enter into a contractual agreement.

Integrated University Program.—The agreement notes the alarming statistics highlighting the severe shortage of highly trained nuclear specialists and the lack of academic programs to train and prepare individuals for work in the nuclear sector. The budget request again attempts to defund this program, despite continued success in developing highly qualified nuclear specialists to meet national needs. The agreement provides \$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.

Nuclear Energy University Program (NEUP).—Since 2009, the Department has allocated up to 20 percent of funds appropriated to Nuclear Energy Research and Development programs to fund university-

led R&D and university infrastructure projects through an open, competitive solicitation process using formally certified peer reviewers. The Department is directed to continue this practice, with not less than \$40,000,000 for R&D activities to be performed at U.S. colleges and universities. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress quarterly briefings on the status of NEUP and the university work being funded.

Supercritical Transformational Electric Power.—The agreement supports the collaborative efforts between the national laboratories and industry partners to develop test capabilities and validate grid-compatible supercritical carbon dioxide Brayton cycle systems by April 2021.

Uranium Reserve.—The only direction regarding the Uranium Reserve is provided in the Weapons Activities account.

NUCLEAR ENERGY ENABLING TECHNOLOGIES

Crosscutting Technology Development.—The agreement provides \$5,000,000 for research collaborations between research universities and national laboratories utilizing existing capabilities and infrastructure focused on the benefits, as well as vulnerabilities of digital instrumentation for existing and future nuclear reactors, including the use of new approaches, such as predictive analytics, machine learning, and artificial intelligence, to improve reactor safety and performance and address cybersecurity issues. The agreement provides \$5,000,000 for a new program to strengthen the pipeline of new materials that can make the current fleet, as well as new advanced reactors, more resilient and more economically competitive. The agreement provides not less than \$10,000,000 for hybrid integrated energy systems.

Joint Modeling and Simulation Program.—Use and application of the codes and tools should be funded by the end user, not by the Joint Modeling and Simulation Program.

Nuclear Science User Facilities.—The agreement provides not less than \$10,000,000 for nuclear energy computation system and support and not less than \$3,000,000 for Nuclear Materials Discovery and Qualification. The agreement provides \$2,000,000 to begin preconceptual design of a secure, separate, and shielded beamline at the NSLS II at Brookhaven National Laboratory to examine radioactive materials.

FUEL CYCLE RESEARCH AND DEVELOPMENT

Material Recovery and Waste Form Development.—The agreement provides not less than \$10,000,000 for EBR-II Processing for HALEU and up to \$10,000,000 to continue work on the ZIRCEX process to recover Highly Enriched Uranium from used naval fuel or unirradiated research reactor fuel.

Accident Tolerant Fuels.— The agreement continues to place a high priority on this program and urges the Department to maintain focus and priority on achieving results in these efforts. The agreement provides not less than \$55,600,000 to continue the participation of three industry-led teams in Phase 2B of the cost-shared research and development program; not less than \$20,000,000 to support accident tolerant fuels development at the national laboratories and other facilities; not less than \$15,000,000 for testing, code development, and licensing of higher-enriched and higher burnup fuels; and not less than \$5,000,000 for further development of silicon carbide ceramic matrix composite fuel cladding for light water reactors. The agreement continues to place a high priority on this silicon carbide program and urges the Secretary to maintain focus and priority on modernization that provides maximum safety benefit. The agreement notes concern that funding for the industry-led portions of the Accident Tolerant Fuels program, and for the testing and development of higher-enriched and higher burnup fuels, is not being obligated by the Department in a timely manner. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress a briefing on its plan to allocate and obligate funds required in this Act and fiscal year 2020 and any negative schedule impacts caused by the delays in allocating or obligating funding. The Department is encouraged to evaluate accident tolerant fuel irradiation testing capability gaps resulting from the closure of the Halden reactor.

Triso Fuel and Graphite Qualification.—The agreement provides up to \$6,000,000 to continue the transition of TRISO fuel to a multiple-producer market, ensuring that more than one industry source would be available to the commercial and government markets.

Used Nuclear Fuel Disposition R&D.—The Department is directed to study the behavior of spent fuel under transportation conditions and opportunities to improve safety of spent fuel rods during transportation.

Integrated Waste Management Systems.—The Department is directed to continue site preparation activities at stranded sites, to evaluate the re-initiation of regional transport, and undertake transportation coordination efforts. Additionally, it is noted that spent nuclear fuel is in many cases located in or near cities and Indian reservations. As the Department continues to plan for an integrated waste management system for our nation's spent nuclear fuel, the Department is encouraged to include planning for the removal of spent nuclear fuel from sites located near cities and Indian reservations.

REACTOR CONCEPTS RESEARCH AND DEVELOPMENT

Advanced Small Modular Reactor RD&D.—The agreement includes \$115,000,000 for ongoing work to support regulatory development, design, and demonstration activities. Consistent with the budget request, no funds are provided for the Joint Use Modular Program.

Light Water Reactor Sustainability.—The most cost-effective way for the United States to maintain low-cost, carbon-free electricity is to safely extend the lives of the nation’s existing nuclear reactors from 60 to 80 years. Therefore, the agreement recommends additional funding above the budget request for this activity as a priority. The agreement provides \$10,000,000 to support new or previously awarded hydrogen demonstration projects.

Advanced Reactor Technologies.—The agreement provides \$16,000,000 to support current and previously awarded Advanced Reactor Concepts industry agreements and not less than \$15,000,000 for MW-scale reactor research and development.

The Department is directed to submit to the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act a report outlining a strategy for siting a microreactor at an institution of higher education with existing infrastructure to support the reactor siting, perform fundamental research, test enabling technologies and cyber security solutions for grid integration, train the future workforce, and de-risk deployment for future private sector applications.

VERSATILE TEST REACTOR

The Department is directed to submit to the Committees on Appropriations of both Houses of Congress not later than 30 days after enactment of this Act a plan for executing the Versatile Test Reactor project via a public-private partnership with an option for a payment-for-milestones approach.

ADVANCED REACTOR DEMONSTRATION PROGRAM

The agreement provides \$250,000,000 for the Advanced Reactor Demonstration Program. The agreement notes the importance of the deployment of advanced reactors to the nation’s ability to regain its leadership in nuclear energy. In fiscal year 2020, Congress directed the Secretary to commence the Advanced Reactor Demonstration Program. The agreement strongly supports the Department’s intent to move quickly on the solicitation and award of these demonstration programs, and the Department is directed to continue to streamline its procurement process and aggressively act to ensure implementation is not delayed.

National Reactor Innovation Center.—The agreement provides up to \$15,000,000 for capital design and pre-construction activities for demonstration reactor test bed preparation at Idaho National Laboratory supporting reactor demonstration activities. The Department shall submit a Construction Project Data Sheet for each such applicable project that is expected to exceed the minor construction threshold in future budget requests.

IDAHO SITEWIDE SAFEGUARDS AND SECURITY

The agreement provides \$12,000,000 for consolidated training facility at the Central Facilities Area.

FOSSIL ENERGY RESEARCH AND DEVELOPMENT

The agreement provides \$750,000,000 for Fossil Energy Research and Development.

Additional direction related to Department-wide crosscutting initiatives is provided under the heading Crosscutting Initiatives in the front matter of Department of Energy.

The agreement provides no funds to plan, develop, implement, or pursue the consolidation or closure of any of the National Energy Technology Laboratory (NETL) sites.

The agreement provides up to \$4,000,000 for a demonstration project to show the increased viability of renewable liquefied petroleum gases.

The Department is encouraged to develop educational partnerships focused on carbon capture and storage, methane capture and storage, and emission mitigation technologies. The Department is directed to submit to the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act a report detailing possible education partnerships in these areas.

The agreement rejects the approach to only provide funds for early-stage research. Such restrictions would cripple innovation and development and would reduce the number of energy technologies adopted in the marketplace.

The agreement provides not less than \$5,000,000, and up to \$15,000,000, for natural gas demand response pilot programs to be developed by gas utilities, state public utility commissions, and local distribution companies. The Department is encouraged to prioritize funding of pilots that have the potential to advance real-time deployment and testing of new technologies that could be used to design, implement, and monitor the effectiveness of natural gas demand response.

The agreement provides not less than \$40,000,000 for the research and development of negative emissions technologies, including not less than \$15,000,000 for direct air capture.

The agreement provides not less than \$5,000,000 for integrated energy systems.

The agreement notes the lack of commercially-viable carbon capture technology available for industrial manufacturers to significantly reduce emissions in a globally competitive manner. The Department was previously directed in the fiscal year 2020 Act to submit a report and provide a briefing to the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment on the recommendations for program structures that could best support and maximize the impact of expanded research, development, and demonstration efforts in three areas: decarbonization of the industrial sector, direct air capture, and carbon use. The Department is directed to provide the briefing and report to the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act. Further, the agreement supports research and development on industrial decarbonization and catalyzing industry-government research partnerships, including CCUS with an emphasis on reuse utilization within industry processes and materials; low-carbon fuels (e.g. hydrogen); transformative technology that will allow deep industrial decarbonization (including demonstration and deployment at scale); materials efficiency and circular economy; and carbon intensity definitions and labeling across key product groups.

CCUS AND POWER SYSTEMS

The agreement recommends funding for the National Carbon Capture Center consistent with the cooperative agreement. The Department continues to be encouraged to establish university partnerships to support ongoing fossil energy programs, to promote broader research into carbon capture, utilization, and storage technologies, and to expand its technology transfer efforts. The Department has previously funded several university-based CCUS projects and is encouraged to build on an established research base to support ongoing research and to address wider implementation of CCUS technologies.

The Department is directed to use funds within CCUS and Power Systems for research and development across a broad range of technology and fuel applications as it determines to be merited.

The Department is directed to increase public-private partnerships and natural gas-based carbon capture research program opportunities.

The agreement supports funding for activities that promote the reuse of captured carbon dioxide from coal, natural gas, industrial facilities, direct air capture, and other sources for the production of fuels and other valuable products. The Department is directed to significantly advance carbon utilization activities over the next ten years with specific technology goals and milestones to ensure that the Department is using its resources in the most efficient manner. The purposes of the work should include improving the economics associated with domestic energy production, achieving optionality in carbon management, and further reducing emissions.

The agreement supports the Department's existing cooperative agreements to develop cost-sharing partnerships to conduct basic, fundamental, and applied research that assist industry in developing, deploying, and commercializing efficient, low-carbon, nonpolluting energy technologies that could compete effectively in meeting requirements for clean fuels, chemical feedstocks, electricity, and water resources.

The agreement reiterates the importance of adequate Federal support to promote design-related work and testing for a commercial scale, post-combustion carbon dioxide capture project on an existing coal-fueled generating unit as well as research, development and deployment of breakthrough technologies, including co-firing with agricultural and forest residue biomass to achieve net greenhouse gas emissions reductions.

Within available funds for Carbon Capture, not less than \$8,000,000 is for research and optimization of carbon capture technologies for use at industrial facilities and not less than \$10,000,000 is for carbon capture research for natural gas power systems. The agreement provides not less than \$15,000,000 for a new solicitation for FEED studies of commercial-scale carbon capture projects that generate carbon dioxide suitable for geologic storage, with at least two of these studies supporting projects at industrial facilities such as a steel or cement facility.

Within available funds for Carbon Utilization, the agreement provides not less than \$8,000,000 for a competitive solicitation to conduct tests of technologies for carbon dioxide absorption integrated with algae systems for capturing and reusing carbon dioxide to produce useful fuels and chemicals, giving priority for teams with university participants.

Within available funds for Carbon Storage, the agreement provides not less than \$20,000,000 to expand and continue the work of the Regional Carbon Sequestration Partnerships (RCSPs) and \$30,000,000 for CarbonSAFE. The agreement supports the focus of the RCSPs on infrastructure development strategies that develop regionally relevant business models for implementation. The Department is directed to fully fund the CarbonSAFE projects selected in fiscal year 2020 and within remaining funds solicit proposals for additional CarbonSAFE projects. The Department is encouraged to recognize the importance of expanding regional geological characterization, collecting and analyzing data, and addressing regional monitoring, permitting, and policy challenges, as well as the value of this work in supporting broadscale commercial deployment efforts. Further, the Department is encouraged to facilitate development and deployment of monitoring technologies at carbon capture utilization and storage projects

with considerable progress towards commercial implementation. The Department is encouraged to give attention to technologies that promise near realtime results or employ big data, machine learning, and artificial intelligence to better address issues such as leak detection, monetization of credits, and permit compliance.

Within available funds for Advanced Energy Systems, the agreement provides \$30,000,000 for Solid Oxide Fuel Cell (SOFC) systems for distributed and central power generation, electrolysis, SOFC combined heat and power, and storage applications. To ensure timely development of this important technology, which is cost-shared with industry, where applicable, not less than 75 percent of the total shall be allocated to the SOFC industry teams.

Within available funds for Advanced Energy Systems, the agreement provides \$27,000,000 for Advanced Turbines, and the Department is directed to use these funds for a research and development program to improve the efficiency of gas turbines used in power generation systems, working cooperatively with industry, universities, and other appropriate parties.

Within available funds for Advanced Energy Systems, the agreement provides \$30,000,000 for Advanced Coal Processing to support early-stage research and development to enable the conversion of coal pitch and coal to carbon fiber and other value-added products for alternative advanced uses of coal, of which not less than \$10,000,000 is for utilizing coal as a precursor for high-value added products at the Carbon Fiber Technology Facility.

The Department is encouraged to consider research and development to improve cost and efficiency of coal-to-fuels technology implementation and polygeneration.

The agreement provides no direction with respect to the Coal FIRST Initiative.

Within available funds for Cross Cutting Research, the agreement provides not less than \$23,000,000 for the Department to continue its 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 agreement supports research to support pilot-scale and experimental activities for near-term applications, which encompass the extraction and recovery of rare earth elements and minerals from conditionally-favorable U.S. coal and coal byproduct sources. The Department is encouraged to continue investments to accelerate the advancement of commercially-viable technologies for the recovery of rare earth elements and critical minerals from lignite, and the Department is expected to fund a more detailed assessment of lignite resources and to devise cost-effective methods of removing rare earths from lignite.

Within available funds for Cross Cutting Research, the agreement provides \$1,500,000 to accelerate development and deployment of wireless sensor systems for coal-fired power generation in order to improve generating efficiency, reduce emissions, and lower maintenance costs.

Within available funds for Cross Cutting Research, the agreement provides \$5,000,000 for the Advanced Energy Storage Initiative.

The agreement provides no direction for plant optimization technologies or the Advanced Ultrasupercritical Program.

Within available funds for STEP, the agreement supports efforts, consistent with the original scope of work, to complete the necessary design and construction of the 10–MW pilot and to conduct the necessary testing for the facility. There is concern about repeated cost overruns for the project, and the Department is directed to brief the Committees on Appropriations of both Houses of Congress not later than 30 days after enactment of this Act on an updated scope and cost profile that incorporates all past, current, and potential future cost increases necessary to complete the project. The agreement also provides funds for competitively-awarded research and development activities, coordinated with the Offices of Nuclear Energy and Energy Efficiency and Renewable Energy, to advance the use of supercritical power cycles.

NATURAL GAS TECHNOLOGIES

The agreement provides \$25,000,000 for methane hydrate research; \$13,000,000 for Emissions Mitigation from Midstream Infrastructure; \$6,500,000 for Emissions Quantification from Natural Gas Infrastructure; and \$12,000,000 for Environmentally Prudent Development, including \$5,200,000 for the Risk Based Data Management System.

The agreement notes there is belief that FracFocus should maintain its autonomy and not be incorporated into any federal agency.

The Department is encouraged to perform a long-term methane hydrate production test in the Arctic, as proposed by the Methane Hydrate Advisory Committee's earlier recommendations (May 21, 2014). Further, within available funds for methane hydrate research, the agreement provides \$5,000,000 for university research and field investigations in the Gulf of Mexico to confirm the nature, regional context, environmental impacts, and hydrocarbon system behavior of gas hydrate deposits.

Within available funds for Emissions Mitigation from Midstream Infrastructure, the agreement recommends funds to support natural gas infrastructure research, including advanced materials and novel sensor technologies.

The Department is encouraged to work with regional universities to evaluate ways to create or add value to natural gas liquids in the Bakken and potential for use in the region.

The agreement notes the Department was previously directed in the fiscal year 2019 Act to submit to the Committees on Appropriations of both Houses of Congress not later than 18 months after the date of enactment a study on the potential for natural gas demand response across energy sectors geographic regions. The Department is encouraged to provide this report expeditiously.

UNCONVENTIONAL FOSSIL ENERGY TECHNOLOGIES

The agreement provides \$20,000,000 for research that develops improved enhanced recovery technologies. In continuing with prior direction, the Department shall ensure these funds are awarded to universities and not-for-profit research organizations.

The agreement provides not less than \$19,000,000 for the Unconventional Field Test Sites. The agreement supports leveraging these field test sites to test methods for improving recoveries from the growing inventory of existing wells. The Department is encouraged to continue research focused on produced water management and beneficial re-use, and methane emissions (particularly flaring) capture and beneficial re-use.

The agreement provides not less than \$4,000,000 for further research on multipronged approaches for characterizing the constituents of and managing the cleaning of water produced during the extraction of oil and natural gas, of which not less than \$2,000,000 is provided to partner with research universities engaged in the study of characterizing, cleaning, treating, and managing produced water and who are willing to engage through public private partnerships with the energy industry to develop and assess commercially viable technology to achieve the same. The Department is encouraged to explore research and development for safe drilling and completion technologies that use no fresh water and can be deployed in horizontal wells.

The Department was previously directed in the fiscal year 2020 Act to provide a report to the Committees on Appropriations of both houses of Congress that outlines the Department's efforts to maintain a stable petroleum engineering workforce and knowledge base, as well as future activities the Department can undertake to strengthen it. The Department is encouraged to submit the report expeditiously.

NATIONAL ENERGY TECHNOLOGY LABORATORY

Within available funds for NETL Infrastructure, the Department is directed to prioritize funds for Joule, the Computational Science and Engineering Center, the Center for Artificial Intelligence and Machine Learning, the Advanced Alloy Development Facility, site-wide upgrades for safety, and addressing and avoiding deferred maintenance.

NAVAL PETROLEUM AND OIL SHALE RESERVES

The agreement provides \$13,006,000 for the operation of the Naval Petroleum and Oil Shale Reserves.

STRATEGIC PETROLEUM RESERVE

The agreement provides \$188,000,000 for the Strategic Petroleum Reserve. The Department is directed to maintain 1,000,000 barrels of gasoline blendstock in the Northeast Gasoline Supply Reserve.

No funding is requested for the establishment of a new regional petroleum product reserve, and no funding is provided for this purpose. Further, the Department may not establish any new regional petroleum product reserves unless funding for such a proposed regional petroleum product reserve is explicitly requested in advance in an annual budget request and approved by Congress in an appropriations Act.

SPR PETROLEUM ACCOUNT

The agreement provides \$1,000,000 for the SPR Petroleum Account to pay for the costs of certain statutorily-mandated crude oil sales.

NORTHEAST HOME HEATING OIL RESERVE

The agreement provides \$6,500,000 for the Northeast Home Heating Oil Reserve.

ENERGY INFORMATION ADMINISTRATION

The agreement provides \$126,800,000 for the Energy Information Administration. The agreement recognizes the importance of building energy information and the opportunity for better data collection presented by new technologies. The Department is encouraged 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 Department is encouraged to upgrade the Commercial Buildings Energy Consumption Surveys to a real-time data collection system with rapid reporting of results, without compromising statistical validity or data security. The Department is also encouraged to collect additional data on light-emitting diode bulbs, commercial building codes, and electric transmission.

The Department is directed to submit to the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment of this Act a report on how the Energy Information Agency can supply increased data regarding the electricity consumption and emissions for retail electricity suppliers, and for city, within city limits, served by an electric utility. The report shall also include the potential costs and benefits associated with the collection and dissemination of such data, and identification of major suppliers and cities where collection and dissemination of such data could be completed at a reduced level of effort and cost.

The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment of this Act a report outlining resources necessary to further develop National Energy Modeling System capabilities to be able to simulate deep decarbonization scenarios, including economy-wide net-zero emissions policies.

The Department is encouraged to work with stakeholders to explore gathering reasonably accurate data on the delivered generation resource mix and emissions rates for every load-serving entity as defined in 16 U.S.C. §824q(2). The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act a recommendation to amend its data collection efforts and reflect progress as part of an annual report.

NON-DEFENSE ENVIRONMENTAL CLEANUP

The agreement provides \$319,200,000 for Non-Defense Environmental Cleanup.

Small Sites.—The agreement provides \$110,933,000 for Small Sites cleanup. Within this amount, \$12,000,000 is for the Energy Technology Engineering Center, \$11,000,000 is for Idaho National Laboratory, \$30,100,000 is to continue work at Lawrence Berkeley National Laboratory, \$47,833,000 is for Moab, and \$10,000,000 is for excess Office of Science facilities.

Energy Technology Engineering Center.—The Committee is pleased with the progress of building demolition, including the recent agreement between the Department and the State of California to demolish the remaining buildings on site. The Committee remains concerned about soil and groundwater remediation and encourages the parties to use the 2007 Consent Order and 2010 Administrative Order on Consent to enter negotiations on this topic. The Committee encourages the Department to continue working with the State of California on cleanup of the Site. The Department is directed to continue to act in accordance with applicable laws, orders, regulations, and agreements with the State of California.

Mercury Storage.—The agreement provides \$2,100,000 for mercury storage activities to comply with recent court actions and to revise its Fee Rule. The Department is directed to finalize the Fee Rule for mercury storage as expeditiously as possible and provide a monthly status update to the Committees on Appropriations of both Houses of Congress until the rule is finalized.

URANIUM ENRICHMENT DECONTAMINATION AND DECOMMISSIONING FUND

The agreement provides \$841,000,000 for activities funded from the Uranium Enrichment Decontamination and Decommissioning Fund. Within available funds, the agreement provides \$134,701,000 for East Tennessee Technology Park to continue cleanup and demolition of all remaining facilities, including the K-1200 complex and the K-1600 complex, and to conduct remedial actions and site closure activities. Within funds available for Pensions and Community and Regulatory Support, the agreement provides an additional \$10,000,000 above the budget request to ensure contractor pensions are adequately funded and up to an additional \$2,219,000 for community support at Portsmouth.

SCIENCE

The agreement provides \$7,026,000,000 for the Office of Science.

Additional direction related to Department-wide crosscutting initiatives is provided under the heading Crosscutting Initiatives in the front matter of Department of Energy.

The Department is directed to provide to the Committees on Appropriations of both Houses of Congress a briefing that details all programs, projects, and activities to be funded in the Office of Science that are not directed by this recommendation or explicitly included in the fiscal year 2021 budget request. The plan shall be provided not later than 90 days after enactment of this Act.

Artificial Intelligence and Machine Learning.—The agreement provides not less than \$100,000,000 for Artificial Intelligence and Machine Learning capabilities across the Office of Science Programs. The Department is directed to apply those capabilities to the Office of Science's mission with a focus on accelerating scientific discovery in its Scientific User Facilities and large experiments.

Biomedical Sciences.—The Department is encouraged to expand its relationships with the National Institutes of Health (NIH) in order to work together more strategically to leverage the Department's research capabilities, including instrumentation, materials, modeling and simulation, and data science. The agreement supports the budget request proposal of \$1,000,000 for collaboration with NIH within the Department's data and computational mission space.

Exascale Computing Initiative.—The agreement provides not less than \$474,945,000 for exascale activities.

Quantum Information Science.—The agreement provides not less than \$245,000,000 for the Office of Science's coordinated and focused research program in quantum information science. Within these available funds, the agreement provides not less than \$120,000,000 for research and \$125,000,000 for five National Quantum Information Science Research Centers. To the greatest extent practical, this effort shall be undertaken in coordination with the National Science Foundation and the National Institute of Standards and Technology. Further, the Department is directed to collaborate with private sector stakeholders, the user community and interagency partners, to develop a roadmap to provide researchers

access to quantum systems so as to enhance the U.S. quantum research enterprise, stimulate the fledgling U.S. quantum computing industry, educate the future quantum computing workforce, and accelerate advancement of quantum computer capabilities. The Department is directed to brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on such a roadmap.

Strategic Partnership Projects.—The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 30 days after enactment of this Act a briefing inventorying all Strategic Partnership Projects that have not received payment sufficient to cover completed work and how the Department plans to recoup any insufficient payments. This is the only direction related to Strategic Partnership Projects.

Distinguished Scientist Program.—The agreement provides \$4,000,000 to support the Department's Distinguished Scientist Program.

Negative Emissions Technology.—The agreement provides not less than \$22,500,000 in Basic Energy Sciences and Biological and Environmental Research for research and development of negative emissions technologies, including not less than \$7,500,000 for direct air capture. The Office of Science is directed to continue to collaborate with the Office of Fossil Energy and the Office of Energy Efficiency and Renewable Energy to support research, development, and demonstration projects to advance the development and commercialization of carbon removal technologies on a significant scale.

ADVANCED SCIENTIFIC COMPUTING RESEARCH

The agreement supports ASCR's leadership in emerging areas relevant to the Department's mission, including artificial intelligence and quantum information science. The agreement supports ASCR's pursuit of machine learning tools for scientific applications and its support for the development of algorithms for future deployable quantum computers. The agreement recognizes that a robust research program in applied and computational mathematics and computer science will be critical to continued progress in these areas and is supportive of the Department's efforts to prioritize these programs.

High Performance Computing and Network Facilities.—The agreement provides not less than \$150,000,000 for the Argonne Leadership Computing Facility, not less than \$225,000,000 for the Oak Ridge Leadership Computing Facility, not less than \$110,000,000 for the National Energy Research Scientific Computing Center, and \$90,000,000 for ESnet.

Mathematical, Computational, and Computer Sciences Research.—The agreement provides not less than \$250,000,000 for Mathematical, Computational, and Computer Sciences Research, including not less than \$10,000,000 for the Computational Science Graduate Fellowship program. The agreement provides up to \$40,000,000 for the development of AI-optimized emerging memory technology for AI-specialized hardware to drive national competitiveness.

BASIC ENERGY SCIENCES

The agreement provides \$24,088,000 for the Batteries and Energy Storage Innovation Hub, \$20,000,000 for the Fuels from Sunlight Energy Innovation Hub, and \$115,000,000 for the Energy Frontier Research Centers. The agreement supports the EPSCoR program and its goals of broadening participation in sustainable and competitive basic energy research in eligible jurisdictions. The Department is directed to continue annual or at minimum, biennial implementation grant solicitations for the EPSCoR program.

The agreement provides not less than \$525,000,000 for facilities operations of the nation's light sources, not less than \$292,000,000 for facilities operations of the high flux neutron sources, and not less than \$139,000,000 for facilities operations of the Nanoscale Science Research Centers (NSRCs).

The agreement provides not less than \$19,000,000 for other project costs, including \$3,000,000 for Proton Power Upgrade, \$2,000,000 for Linac Coherent Light Source-II HE, \$13,000,000 for Second Target Station, and \$1,000,000 for Cryomodule Repair & Maintenance Facility. The agreement provides not less than \$5,000,000 for NSRC Recapitalization and not less than \$5,500,000 for NSLS-II Experimental Tools-II.

The agreement provides \$26,000,000 for exascale systems.

The Department is directed to continue supporting the construction of additional beamlines in future budget requests so the nation's scientists can more fully leverage the investment that has been made in the NSLS II while it is the most powerful X-Ray light source in the nation.

The Department is encouraged to explore opportunities to develop an autonomous chemistry and materials synthesis platform. The capabilities will leverage advances in artificial intelligence to enable greater efficiencies and scientific throughput, leading to significant reduction of the total time and cost in novel materials discovery and innovation.

The Department is encouraged to continue funding to support research and development needs of graduate and postgraduate science programs at Historically Black Colleges and Universities.

BIOLOGICAL AND ENVIRONMENTAL RESEARCH

The agreement provides not less than \$390,000,000 for Biological Systems Science and not less than \$350,000,000 for Earth and Environmental Systems Sciences.

The Department is directed to maintain Genomic Science as a top priority, and the agreement provides not less than \$100,000,000 for Foundational Genomics Research and not less than \$100,000,000 for the Bioenergy Research Centers. The agreement provides not less than \$42,000,000 for Biomolecular Characterization and Imaging Science and not less than \$80,000,000 for the Joint Genome Institute. Within available funds for Biomolecular Characterization and Imaging Science, the agreement provides \$15,000,000 to continue the development of a multi-scale genes-to ecosystems approach that supports a predictive understanding of gene functions and how they scale with complex biological and environmental

systems. The agreement supports the Department's establishment of a national microbiome database collaborative.

The agreement provides not less than \$5,000,000 for low-dose radiation research. The Department is directed to work through the multi-agency sub-working group to develop the proper role and direction for the Department in future low-dose radiation research.

The agreement provides not less than \$78,000,000 for Environmental System Science, of which not less than \$10,000,000 is for Next Generation Ecosystem Experiments Arctic; \$8,300,000 is for the Spruce and Peatland Responses Under Changing Environments field site; \$5,000,000 is to initiate planning and pilot studies for new Terrestrial Ecosystem Science manipulation experiments; \$7,000,000 is for Next Generation Ecosystem Experiments Tropics; \$5,100,000 is for AmeriFLUX Long-Term Earth System Observations; not less than \$3,500,000 is to support ongoing research and discovery related to mercury biogeochemical transformations in the environment; and \$6,800,000 is for Watershed Function Science Focus Area.

The agreement provides \$15,000,000 for cloud-aerosol research and computing.

The recommendation includes \$30,000,000 for ongoing efforts to develop observational assets and associated research to study the nation's major land-water interfaces, including the Great Lakes and the Puget Sound, that leverages national laboratories' assets as well as local infrastructure and expertise at universities and other research institutions.

The Department is encouraged to continue to support the River Corridor Science Focus Area. The Department is encouraged to develop an integrated mountainous hydrology focus, which extends observations and models and leverages collaborations supported by other Federal agencies.

The Department is directed to submit to the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act a report that outlines the activities previously conducted under the Energy-Water Nexus across the Department, which activities have continued, which activities ended, and an explanation for the termination of each activity that ended. The Department is directed to coordinate all energy-water nexus activities across the Offices of Energy Efficiency and Renewable Energy, Electricity, Fossil Energy, Nuclear Energy, Science, and any other relevant program offices.

The agreement provides up to \$6,000,000 to advance biological and environmental capabilities through the development and prototyping of fabricated ecosystems and sensors that enable interrogation of biological-environmental interactions across molecular to ecosystem-relevant scales under controlled laboratory conditions.

The agreement provides \$15,000,000 to support the exascale computing initiative. The Department is directed to enhance investments in machine learning to advance the use of diverse and increasingly autonomous datasets to understand environmental and climate dynamics; rapidly incorporate datasets into predictive watershed, ecosystem, and climate models; and project the onset of and track extreme events, such as atmospheric rivers and hurricanes.

The Department is encouraged to increase its funding for academia to perform independent evaluations of climate models using existing data sets and peer-reviewed publications of climate-scale processes to determine various models' ability to reproduce the actual climate. The Department is encouraged to establish an Earth System Grid Federation node for Arctic climate data. Given the clear synergies and overlap of missions, the Department is encouraged to increase collaboration with the National Oceanic and Atmospheric Administration (NOAA) in its climate research and modeling efforts.

FUSION ENERGY SCIENCES

The agreement provides not less than \$20,000,000 for the High-Energy-Density Laboratory Plasmas program to support initiatives in quantum information science, advance cutting-edge research in extreme states of matter, expand the capabilities of the LaserNetUS facilities, and provide initial investments in new intense, ultrafast laser technologies needed to retain U.S. leadership in these fields. To maintain U.S. leadership in intense, ultrafast lasers, the Department is directed to submit to the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment of this Act a report describing the Department's plans to respond to the recommendations of the Brightest Light Initiative Workshop Report, including facility investments and improvements needed to advance laser science technology and applications.

The agreement provides \$65,000,000 for NSTX-U operations and not less than \$21,000,000 for the Materials Plasma Exposure eXperiment. The Department is encouraged to support optimal facility operations levels for DIII-D.

The agreement provides \$4,000,000 for the Innovation Network for Fusion Energy (INFUSE) research and development program. The Fusion Energy Sciences Advisory Committee was previously directed to give full consideration to the establishment of a cost-share program for reactor technologies as part of the ongoing long-range strategic planning activity. The Department is encouraged to take into account the long-range strategic plan when developing future budget requests.

The agreement provides \$242,000,000 for the U.S. contribution to the ITER project, of which \$60,000,000 is for in-cash contributions. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment of this Act the performance baseline for the entire project, including an updated baseline for Subproject 1 and a baseline for Subproject 2.

HIGH ENERGY PHYSICS

The agreement provides not less than \$30,000,000 for the Sanford Underground Research Facility; \$16,000,000 for the Facility for Advanced Accelerator Experimental Tests-II; not less than \$6,000,000 for Cosmic Microwave Background-Stage 4; \$12,000,000 for the Dark Energy Spectroscope Instrument; \$6,000,000 for Lux Zeplin; and not less than \$18,500,000 for Vera C. Rubin Observatory operations. The agreement provides no direction for the HL-LHC Upgrade projects. The agreement supports activities toward the completion of the Large Synoptic Survey Telescope and Super Cryogenic Dark Matter Search projects.

The agreement notes the longstanding planning and contributions of resources by partner organizations with respect to data management on the Vera C. Rubin Observatory. The Department is directed to employ the computational expertise and existing capabilities in data management of the Vera C. Rubin Observatory, potentially in partnership with the national laboratories, to ensure the successful operation of this project and access for the broad research community. The Department is directed to brief the Committees on Appropriations of both Houses of Congress not later than 30 days after enactment of this Act on the status of the project, including plans for management of the data facility.

The Department is strongly urged 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. The Department is encouraged to fund facility operations at levels for optimal operations.

NUCLEAR PHYSICS

The Department is directed to give priority to optimizing operations for all Nuclear Physics user facilities.

The agreement provides not less than \$6,600,000 for the Gamma-Ray Energy Tracking Array, \$5,530,000 for sPHENIX, not less than \$5,000,000 for MOLLER, not less than \$1,400,000 for Ton-Scale Neutrino-less Double Beta Decay, not less than \$17,000,000 for the Electron Ion Collider, not less than \$3,000,000 for the High Rigidity Spectrometer, and \$3,000,000 for the U.S. Stable Isotope Production and Research Center. The agreement supports activities toward the completion of the Muon to Electron Conversion Experiment.

The agreement provides not less than \$1,000,000 to establish a traineeship program for students to develop the future workforce of radioisotope production. Further, the Department is directed to provide a plan to the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment of this Act to develop a consortium of research universities to apply advanced manufacturing techniques to radioisotope production, including automation, digitalization, artificial intelligence, fabrication, and state-of-the-art characterization instrumentation. This is the only direction related to a consortium of research universities to apply advanced manufacturing techniques to radioisotope production.

WORKFORCE DEVELOPMENT FOR TEACHERS AND SCIENTISTS

The agreement provides \$29,000,000 for Workforce Development for Teachers and Scientists. Within available funds, the agreement provides \$13,800,000 for Science Undergraduate Laboratory Internships, \$1,900,000 for Community College Internships, \$4,600,000 for the Graduate Student Research Program, \$1,800,000 for the Visiting Faculty Program, \$1,200,000 for the Albert Einstein Distinguished Educator Fellowship, \$2,900,000 for the National Science Bowl, \$700,000 for Technology Development and Online Application, \$600,000 for Evaluation Studies, and \$1,500,000 for Outreach.

The Department is directed to widely publicize its opportunities and diversify the applicant pool, with an emphasis on targeted recruitment of individuals traditionally underrepresented in STEM.

Further, the Department was previously directed in the fiscal year 2020 Act to provide to the Committees on Appropriations of both Houses of Congress a report on the how the Office of Science plans to comply with Executive Order 13853 to develop a pipeline to meet future needs in trade craft requirements and workforce development in coordination with the national laboratories. The Department is encouraged to submit the report expeditiously.

Within available funds for Outreach, the Department is directed to establish a working group comprised of the Office of Science and national laboratories and a consortium of universities to assist universities in the development of a curriculum to promote the next generation of scientists utilizing artificial intelligence, quantum information science, and machine learning. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment of this Act a report and briefing on a plan to meet universities' educational curriculum needs to support this future scientific workforce.

SCIENCE LABORATORIES INFRASTRUCTURE

In future budget requests, the Office of Science is directed to work with the Office of Nuclear Energy to demonstrate a commitment to operations and maintenance of nuclear facilities at Oak Ridge National Laboratory that supports multiple critical missions. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment of this Act a briefing on the funding levels required for operations and maintenance of Oak Ridge National Laboratory nuclear facilities.

Within available funds for General Plant Projects, the Department is directed to prioritize projects related to power resilience.

NUCLEAR WASTE DISPOSAL

The agreement provides \$27,500,000 for Nuclear Waste Disposal, of which \$20,000,000 is for interim storage and \$7,500,000 is for Nuclear Waste Fund oversight activities.

ADVANCED RESEARCH PROJECTS AGENCY—ENERGY

The agreement provides \$427,000,000 for the Advanced Research Projects Agency—Energy.

TITLE 17 INNOVATIVE TECHNOLOGY LOAN GUARANTEE PROGRAM
(INCLUDING RESCISSIONS OF FUNDS)

The agreement provides \$32,000,000 in administrative expenses for the Loan Guarantee Program. The proposed funding level is offset by \$3,000,000 in estimated collections from loan guarantee applicants, for a net appropriation of \$29,000,000.

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

The agreement includes a rescission of \$392,000,000 of emergency balances.

ADVANCED TECHNOLOGY VEHICLES MANUFACTURING LOAN PROGRAM
(INCLUDING RESCISSIONS OF FUNDS)

The agreement provides \$5,000,000 for the Advanced Technology Vehicles Manufacturing Loan Program. The agreement directs the Department to expeditiously evaluate and adjudicate all loan applications received. The agreement further directs the Department to provide to the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act a briefing that includes a status update on each loan application received.

The agreement includes a rescission of \$1,908,000,000 of emergency balances.

TRIBAL ENERGY LOAN GUARANTEE PROGRAM

The agreement provides \$2,000,000 for the Tribal Energy Loan Guarantee Program. The Department is encouraged to take formal steps to market this program and ensure the program's availability, benefits, and application process are made known to potential applicants who are ready to seek financing.

OFFICE OF INDIAN ENERGY POLICY AND PROGRAMS

The agreement provides \$22,000,000 for the Office of Indian Energy Policy and Programs. The agreement supports the efforts to utilize local subject matter experts to assist Indian Tribes and Alaska Native villages in developing energy projects and providing support for energy planning. The Department

is encouraged to use its cost share waiver authority under section 988 of the Energy Policy Act of 2005 when applicable.

The Office of Indian Energy is directed to design funding opportunity announcements that do not exclude Tribes based on land ownership structures.

DEPARTMENTAL ADMINISTRATION

The agreement provides \$166,000,000 for Departmental Administration.

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

Office of the Secretary – Program Direction.—The agreement provides \$5,582,000 for program direction and directs the Department to develop a research agenda related to arctic energy, including Counter-Unmanned Aircraft System technologies, and to brief the Committees on Appropriations of both Houses of Congress not later than 90 days after the enactment of this Act on this agenda. This is the only direction related to the Office of the Secretary.

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

Chief Information Officer.—The agreement provides \$140,200,000 for Department-wide information technology and cybersecurity efforts. Within this amount, not less than \$71,800,000 shall be for cybersecurity and secure information. The agreement includes \$2,000,000 to continue implementation of the 21st Century IDEA (Public Law 15-336).

Consistent with previous direction in the Senate Report for fiscal year 2020, the Department is directed to continue to implement the CIO Business Operations Support Services (CBOSS) program to maximize meeting the multiple mission requirements and support the Department's critical cybersecurity mission.

Artificial Intelligence and Technology Office.—The agreement provides \$2,500,000 for personnel expenses related to coordination of artificial intelligence and technology activities and does not provide funding for programmatic purposes. The Department is directed to continue programmatic activities regarding artificial intelligence and machine learning related to the Department's mission through the appropriate program offices, and the Secretary is directed to lead coordination of all program offices across the Department. No further direction is provided.

Economic Impact and Diversity.—The agreement provides \$10,169,000 for Economic Impact and Diversity and reiterates House direction regarding a STEM reporting requirement.

Other Departmental Administration.—The agreement provides \$5,000,000 above the budget request for the Office of Technology Transitions for a competitive funding opportunity for incubators supporting energy innovation clusters, with requirements as outlined in the House report. The agreement reiterates House direction regarding a reporting requirement on the value of creating a nonprofit foundation. The agreement provides \$1,700,000 within available funds for the Office of Policy to complete a U.S. energy employment report, with requirements as outlined in the House report. The Department is directed to produce and release this report annually.

The agreement provides \$24,918,000 for the Chief Human Capital Officer, \$35,000,000 for the Office of General Counsel, and \$7,000,000 for the Office of Policy. The agreement includes \$13,000,000 for Project Management Oversight and Assessments and reiterates House direction regarding addressing GAO's high-risk concerns.

OFFICE OF THE INSPECTOR GENERAL

The agreement provides \$57,739,000 for the Office of the Inspector General. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act a five-year staffing and program plan necessary to achieve its audit, inspection, and investigative mission.

ATOMIC ENERGY DEFENSE ACTIVITIES
NATIONAL NUCLEAR SECURITY ADMINISTRATION

The agreement provides \$19,732,200,000 for the National Nuclear Security Administration (NNSA).

The agreement includes funding for recapitalization of the nuclear weapons infrastructure, while modernizing and maintaining the nuclear deterrent without the need for underground testing. Recapitalizing the nuclear security enterprise is among our most important national security priorities.

The NNSA Act clearly lays out the functions of the NNSA and gives the Administrator authority over, and responsibility for, those functions. The agreement again directs that no funds shall be used to reorganize, re-classify, or study combining any of those functions with the Department.

Coordination between the Department of Energy and the Department of Defense is critical given the joint responsibilities for the nation's nuclear deterrent. Section 179 of title 10 of the United States Code provides a framework for coordination, including budget request development, between the departments using the Nuclear Weapons Council while recognizing the Department of Energy's independence in developing its budget request. The agreement supports this longstanding framework and encourages the Department to assess opportunities to improve coordination as appropriate. Further, the agreement strongly encourages better coordination between the Department and the National Nuclear Security Administration during its budget formulation process.

Project Management.—Concerns remain with NNSA's ability to properly estimate costs and timelines for large projects. The NNSA is encouraged to assess current performance on projects costing more than \$750,000,000, and to make appropriate project management changes. The agreement further encourages the NNSA to identify problems in cost and schedule estimates early, and to provide updated information to the Committees on Appropriations of both Houses of Congress in a timely manner.

Integrated University Program.—The Secretary is directed to carry out the requirements of the Integrated University Program in support of university research and development in areas relevant to the NNSA's mission. Within available funds, the agreement provides not less than \$5,000,000 for the Integrated University Program to cultivate the next generation of leaders in nonproliferation, nuclear security, and international security. The Department is directed to request funding for this program in future budget years. Funding for this program shall not come from prior year funds. The NNSA is directed to provide a report annually with the budget request that lists all the university programs requested, the recommended funding level, and the value that program provides the NNSA.

WEAPONS ACTIVITIES

The agreement provides \$15,345,000,000 for Weapons Activities.

The agreement reiterates House direction regarding an Integrated Priorities Report.

The agreement reiterates House direction regarding the Joint Nuclear Weapons Lifecycle Process.

The agreement reiterates direction included in the fiscal year 2020 Act concerning external peer review of non-nuclear components and subsystems.

The agreement reiterates House direction regarding a briefing on domestic uranium enrichment. A separate control point is included for HEU downblending.

W93 Modernization Activity.—The agreement includes funding for the initial studies to evaluate the W93 warhead. Prior to obligating funds, the NNSA, in coordination with the Department of Defense as necessary, shall brief the Committees on Appropriations of both Houses of Congress on the NNSA's plan to study and conduct the Phase 1 Concept Assessment. The plan shall include a timeline with projected milestones for completion. The NNSA shall ensure the Committees are apprised in a transparent and timely manner regarding the status of this activity. Upon completion of Phase 1 and prior to entering Phase 2, the NNSA shall brief the Committees on Appropriations of both Houses of Congress on the results of Phase 1 Concept Assessment. The W93 program provides a unique opportunity to influence the way the stockpile is managed in the future. The schedule for the Life Extension Programs (LEPs) currently underway is largely driven by obsolescence and the material condition of the warheads, which has created a bow wave with limited flexibility. The NNSA is encouraged to consider overall lifecycle costs and sustainment requirements for the warhead upfront and is directed to brief the Committees on Appropriations of both Houses of Congress quarterly on these efforts. The agreement also directs the NNSA to conduct an analysis of alternatives that specifically addresses ways of meeting design and manufacturing needs of allies that accounts for work completed as part of recent and ongoing LEPs and Alterations and to provide the analysis of alternatives not later than 180 days after enactment of this Act.

B83 Sustainment.—The agreement provides not more than \$30,795,000 and directs the NNSA to ensure the Committees on Appropriations of both Houses of Congress receive periodic and timely briefings concerning the status of sustainment efforts. Concerns persist about the feasibility of maintaining the B83-1 in the stockpile without deferring key maintenance activities and at reduced funding levels. At the same time, there is concern that the continued retention of the B83-1 may necessitate eventual modifications to the warhead. Such modifications would compete for resources with other ongoing and planned nuclear weapons modernization and development efforts. Accordingly, the agreement directs NNSA, with the assistance of the Nuclear Weapons Council (NWC) if necessary, to report to the Committees on Appropriations of both Houses of Congress not later than 90 days of enactment of this Act on the following: current surveillance findings regarding the B83-1, to include the results of the past three annual assessments and any identified limitations of the weapon; the estimated cost to maintain the B83-1 beyond its originally planned retirement date and a discussion of potential schedule impacts to other weapons

programs; a discussion of suitable replacements that the NWC has considered for the B83-1, to include the B61-12s or the B61-11s soon to be or already in the stockpile, as well as missile warheads. The agreement further directs that NNSA submit the report to the Comptroller General at the same time that it submits it to the Committees on Appropriations of both Houses of Congress, and that the Government Accountability Office review the report and brief the Committees on its observations not later than 90 days after receipt.

Production Modernization.—The agreement reiterates House direction regarding sustaining beryllium and graphite capabilities.

The agreement reiterates House direction to establish a Center of Excellence.

Plutonium Pit Production.—The agreement reiterates House direction regarding plutonium pit production and clarifies that the plan to complete a resource-loaded integrated master schedule shall include all pit production-related project and program activities that shall provide additional details within high-level milestones for projects based on GAO best practices. The NNSA is directed to continue to provide a clear breakout of costs for activities in future budget requests and to include in future budget requests a breakdown of manpower needs for pit production and all support functions. The agreement includes not less than \$7,000,000 for workforce development and training for Historically Black Colleges and Universities, Hispanic Serving Institutions, and Tribal Colleges and Universities in South Carolina and New Mexico to support pit production. The agreement also includes \$8,000,000 for next-generation machining and assembly technology development for high volume pit production.

Pit and Plutonium Aging.—There is concern with the apparent lack of focus on advancing knowledge regarding pit and plutonium aging since the JASONs conducted its first study in 2006. Given the future needs of the nation's nuclear deterrent, a robust program of research and experimentation is needed. Therefore, NNSA is directed to develop a comprehensive, integrated ten-year research program for pit and plutonium aging that represents a consensus program among the national laboratories and federal sponsors. Such a plan shall include estimated cost of ongoing research, new or upgraded capability needs, and key near-, mid-, and long-range milestones. The plan shall be submitted to the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment of this Act.

Purified Uranium.—Concerns persist that the NNSA's current plan is ahead of need and may not be the most efficient course of action. The agreement directs the NNSA to perform a business case analysis to include the capabilities of the national laboratories and plants to confirm the best value source is being used and to continue efforts to mature and deploy direct electrolytic reduction technology.

Science.—Within amounts for Academic Alliances, \$5,000,000 shall be for Tribal Colleges and Universities and \$35,000,000 shall be for the Minority Serving Institutions and Partnership Program. The agreement encourages continued research in High Energy Density Plasmas and recognizes the partnerships between laboratories and research universities to address the critical need for skilled graduates to replace an aging workforce at NNSA laboratories. The agreement provides \$8,700,000 for the Joint Program in High Energy Density Laboratory Plasmas in Academic Programs.

Enhanced Capabilities for Subcritical Experiments.—In lieu of House direction, the agreement directs the NNSA to brief the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on the status of the updated performance baseline and a contingency plan if ECSE is not completed on the current schedule.

Inertial Confinement Fusion and High Yield.—Within available funds, not less than \$349,000,000 is for the National Ignition Facility, not less than \$82,000,000 is for OMEGA, not less than \$66,900,000 is for the Z Facility, and not less than \$6,000,000 is for the NIKE Laser at the Naval Research Laboratory. To help address target procurement issues, the agreement directs not less than \$31,000,000 is to be provided by the NNSA to target vendors for target research, development, and fabrication to cost-effectively operate the NIF, Z, and OMEGA Facilities.

Advanced Simulation and Computing.—Within funds provided for Advanced Simulation and Computing, \$25,000,000 shall be for research in, leading to the development of, memory technologies that will drive 40X performance gains beyond that achieved by exascale computing systems for critical mission applications. The Department is directed to brief the Committees on Appropriations of both Houses of Congress not later than 90 days after the enactment of this Act detailing how this money will be spent.

Stockpile Responsiveness Program.—The agreement reiterates House direction on this program.

Weapons Technology and Manufacturing Maturation.—The agreement provides \$10,000,000 within Advanced Manufacturing Development to improve manufacturing and safety.

Partnerships with the Office of Science.— The NNSA is strongly encouraged to develop additional partnerships with the Office of Science to utilize the Advanced Photon Source (APS) and Linac Coherent Light Source (LCLS) x-ray light sources. The NNSA is directed to brief the Committees on Appropriations of both Houses of Congress not later than 90 days of enactment of this Act on its plans to work with the Office of Science to incorporate additional capabilities in the planned upgrades at LCLS and APS that will address NNSA mission needs to interrogate the behavior of materials at length and timescales necessary to study materials aging and modern manufacturing methods.

Uranium Reserve.—In lieu of all direction on the Uranium Reserve program, the agreement provides \$75,000,000 in the Weapons Activities account. NNSA is directed to coordinate with and support the Office of Nuclear Energy in the development and implementation of the program. Further, the Department is directed to submit to the Committees on Appropriations of both Houses of Congress not later than 30 days after enactment of this Act a plan for the proposed establishment of a uranium reserve. The plan shall include the legal authorities in place or needed to establish and operate a uranium reserve,

including the purchase, conversion, and sale of uranium; a ten-year implementation plan of the activities for establishment and operations of a uranium reserve; and a ten-year cost estimate. The plan shall also include recommendations for ways to consolidate this program with other existing uranium management activities within the Department to create efficiencies.

Infrastructure & Operations.—The NNSA is directed to proceed with early planning to reach CD-1 for the Heterogeneous Integration Facility and to keep the Committees on Appropriations of both Houses of Congress informed of any delays or additional funding requirements to meet CD-1. The agreement includes direction for NNSA's Office of Nuclear Materials Integration to develop a plan and cost estimate to establish an analytical testing lab in partnership with NNSS. The agreement recognizes that trusted microelectronics are a national security priority and continues to support plans to upgrade the capability for producing trusted and strategic radiation-hardened microelectronics to ensure the safety, security, reliability, and effectiveness of the nation's nuclear deterrent.

Defense Nuclear Security.—The NNSA is encouraged to complete CD-1 and proceed expeditiously to construction for Project 17-D-710, West End Protected Area Reduction, Y-12.

DEFENSE NUCLEAR NONPROLIFERATION

The agreement provides \$2,260,000,000 for Defense Nuclear Nonproliferation.

The agreement provides not less than \$5,000,000 for research and engagement on applications of nuclear security, safeguards, and export controls for advanced nuclear reactor designs.

The Committee directs NNSA to cooperate and support the Office of Nuclear Energy in developing safeguards concepts, policies, and technologies to address the proliferation challenges unique to advanced nuclear reactors. Further, NNSA shall work with the Nuclear Regulatory Commission and the national laboratories and industry to ensure the implementation of "safeguards-by-design" features in advanced nuclear reactors.

Domestic Radiological Security.—Within available funds, not less than \$65,000,000 is for the Cesium Irradiator Replacement Program. Within this amount, \$30 million is to address recovery and decontamination efforts associated with the container breach and release of material in Seattle, Washington on May 2, 2019. Within available funds, the agreement encourages the Y-12 National Security Complex's Nuclear and Radiological Field Training Center to partner with interested State or local governments to improve capabilities to train first responders, National Guard specialized units, and other experts in nuclear operations, safeguards, cyber, and emergency operations.

Material Management and Minimization.—Within amounts for Laboratory and Partnership Support, \$50,000,000 is for the competitively-awarded funding opportunity to expedite the establishment of a stable domestic source of Mo-99 without the use of highly enriched uranium that was directed in the Energy and Water Development and Related Agencies Appropriations Act, 2020, and \$10,000,000 is to facilitate interactions between the national laboratories, production facilities, and the private sector in this area. The agreement reiterates House direction regarding a plan on Mo-99.

DNN R&D.—The agreement includes \$15,000,000 for University Consortia and Nonproliferation Steward. The agreement includes House direction regarding evaluating a nuclear materials processing testbed. Funding is provided above the request to advance U.S. capabilities to detect and characterize low yield and evasive underground nuclear explosions and weaponization activities.

NAVAL REACTORS
(INCLUDING TRANSFER OF FUNDS)

The agreement provides \$1,684,000,000 for Naval Reactors.

The agreement fully funds important national priorities, including the Columbia-class replacement submarine design, the prototype refueling, and the Spent Fuel Handling Recapitalization Project. Naval Reactors currently relies on highly enriched uranium from weapons that have been removed from the stockpile to fuel the Navy's aircraft carriers and submarines. Naval Reactors is encouraged to continue working with the NNSA to ensure there is a long-term plan that meets the Navy's needs for highly enriched uranium.

Naval Reactors Development.—With the completion of the Columbia-class and the S8G Prototype Refueling on the horizon, it is important for Naval Reactors to have a solid research and development plan for the future. Naval Reactors 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 on its current and planned research and development activities.

S8G Prototype Refueling.—On-time completion of the prototype refueling is important to demonstrating technology advancements for fleet application. Therefore, the agreement fully funds the budget request and directs Naval Reactors to ensure continued focus on this high priority until all refueling activities are finished.

FEDERAL SALARIES AND EXPENSES

The agreement provides \$443,200,000 for Federal Salaries and Expenses.

The agreement reiterates House direction regarding developing a plan for expedited hiring. The agreement recognizes the importance of recruiting and retaining the highly skilled personnel needed to meet NNSA's important mission. The NNSA is directed to continue providing monthly updates on the status of hiring and retention.

ENVIRONMENTAL AND OTHER DEFENSE ACTIVITIES

DEFENSE ENVIRONMENTAL CLEANUP

The agreement provides \$6,426,000,000 for Defense Environmental Cleanup. Within available funds, the Department is directed to fund the hazardous waste worker training program at \$10,000,000.

Future Budgets Requests.—The agreement directs the Department to include out-year funding projections in the annual budget request for Environmental Management and an estimate of the total cost and time to complete cleanup at each site.

Richland.—Additional funding is provided to continue cleanup of the 300-296 waste site under the 324 Building; increased surveillance and maintenance and risk reduction activities associated with legacy waste sites as recommended in the February 2020 Government Accountability Office Report; and community and regulatory support. Within available funds for Central Plateau Remediation, not less than \$28,000,000 is provided for groundwater remediation and site critical infrastructure. The agreement also includes \$2,500,000 to develop in-depth plans and processes for the permanent off-site removal of Sr-90 capsules currently stored at the West Encapsulation and Storage Facility. Further, within available funds, the agreement provides not less than \$8,500,000 for the Hazardous Materials Management and Emergency Response facilities.

The Department is directed to carry out maintenance and public safety efforts at historical sites, including the B Reactor. This includes facility improvements needed to expand public access and interpretive programs. None of the Richland Operations funds shall be used to directly carry out waste removal or treatment activities within the Office of River Protection's tank farms.

Office of River Protection.—Funds above the budget request are provided to continue tank waste retrievals and design and construct facilities necessary to meet near-term waste treatment goals. Funds are also provided to resume full engineering, procurement, and construction work on the High-Level Waste Treatment Facility and to ensure compliance with the 2016 Consent Decree and Tri-Party Agreement milestones. Funds that support the Waste Treatment Plant project are provided separately for: 1) Low-Activity Waste Treatment Facility, Analytical Laboratory, and Balance of Facilities; 2) High-Level Waste Treatment Facility; 3) Pre-Treatment Facility; and 4) Low Activity Waste Pretreatment System. The Department shall not move forward with placing the High-Level Waste Treatment Facility and Pre-Treatment Facility into preservation mode for any length of time.

The agreement notes that the budget request does not include funding for low level waste offsite disposal but that fiscal year 2020 funds are still available for this purpose. Accordingly, the recommendation provides no new funds for this effort and the Department shall provide notification to the Committee if any additional funds are proposed for this project, including the amount and source of funds.

The Department is reminded that meeting the Consent Decree milestone for operations of Direct Feed Low Activity Waste must remain the Department's top focus within the Office of River Protection.

Idaho Site.—The agreement includes House direction regarding the consideration of a university-led center. Efforts to analyze alternatives for the future of spent fuel facilities at Idaho to include multi-purpose canisters are supported.

NNSA Sites.—The agreement rejects the proposed rescission of funds previously directed to address high-risk and legacy contamination at Lawrence Livermore National Laboratory. The Department has not yet submitted the ten-year plan for decommissioning excess facilities at Livermore and is directed to provide the report expeditiously to enable Congressional oversight.

Within the funds provided for Los Alamos National Laboratory, the agreement provides \$3,394,000 for continued support of Miscellaneous Programs and Agreements in Principle. The agreement also provides \$6,000,000 for well R-72.

Oak Ridge Reservation.—Additional funds above the budget request are recommended to address the growing backlog of deferred maintenance associated with Environmental Management owned facilities. The Department should also focus on the cleanup of excess contaminated facilities, many of which are on the Department's list of high-risk facilities, to reduce threats to worker safety and health and to provide for future use, including remaining cleanup at the biology complex. Remediation of mercury contamination is an important precursor to full site remediation. Reducing the mercury being released into the East Fork of Poplar Creek continues to be among the highest priorities for the site.

The agreement provides \$5,900,000 for Community and Regulatory Support but notes the Department has not provided the work plan from the State of Tennessee. Continued funding is contingent upon measurable progress in review and disposition of regulatory documents necessary for cleanup at the site. The agreement also provides \$55,000,000 for disposition of material in Building 3019 and supports the Department's current approach to expedite the disposition using a public-private partnership that will reduce the overall cost of cleanup. The U-233 Disposition Program must remain a high priority for the site.

Concerns persist regarding the delays in issuing the Record of Decision for the new landfill and notes the Department has not provided the results of the evaluation of the cost of onsite disposal compared to the offsite disposal, and the economic impact to the local community. The Department is directed to brief the Committees on Appropriations of both Houses of Congress on this topic not later than 30 days after the enactment of this Act.

The Department is reminded that completion of preparations for hot cell processing and the start of hot cell processing and continued extraction of Thorium-229 must remain a priority.

Savannah River Site.—The agreement provides \$1,531,659,000 for the Savannah River Site, an increase of \$75,887,000 from fiscal year 2020. Within available funds, not less than \$3,000,000 is for disposition of spent fuel from the High Flux Isotope Reactor. Within available funds for Risk Management Operations, the agreement provides \$5,000,000 for remediation of the D-Area and \$20,000,000 for H-Canyon operations.

Waste Isolation Pilot Plant (WIPP).—The agreement supports the continued modernization of underground equipment to zero-emission battery-electric vehicles or very low emission equipment.

The agreement does not include funding for infrastructure improvements as outlined in the House report but directs the Department provide a report to the Committees on Appropriations of both Houses of Congress not later than 90 days after the enactment of this Act on WIPP-related road usage and future funding needs for this activity. The report may be coordinated with the State of New Mexico and shall include data from 1992 to 2020 that outlines WIPP-related road usage compared to other heavy road users, including the oil and gas industry and how previously appropriated funding for these activities were used. The report should also include a plan for future funding including specific cost estimates for each road, highway, and location planned for improvement.

Technology Development and Demonstration.—Within available funds, \$5,000,000 is provided for the National Spent Nuclear Fuel Program to address issues related to storing, transporting, processing, and disposing of Department-owned and managed spent nuclear fuel, with additional House direction; \$5,000,000 is provided for work on qualification, testing and research to advance the state-of-the-art on containment ventilation systems; and not less than \$5,000,000 is recommended to fund the existing cooperative agreement with the Consortium for Risk Evaluation with Stakeholder Participation. The agreement supports the Department's efforts to expand technology development and demonstration to address its long-term and technically complex cleanup challenges.

OTHER DEFENSE ACTIVITIES

The agreement provides \$920,000,000 for Other Defense Activities. With respect to Order 140.1, concerns persist with the Department's continued desire to reshape, often without merit, the Department's interactions with the Defense Nuclear Facilities Safety Board. Additionally, concerns persist regarding the Department's Order 140.1, and the Department is directed to brief the Committees on Appropriations of both Houses of Congress not later than 30 days after the enactment of this Act on the revised Order. Further, the Department is directed to work with the Board to establish a bilateral Memorandum of Understanding between the two agencies to assure operational interface issues between the two agencies are fully resolved.

Within available funds for Environment, Health, Safety and Security, the agreement provides not less than \$1,000,000 for the Epidemiologic Study of One Million U.S. Radiation Workers and Veterans, which was originally approved by the Office of Science in 2012.

The agreement includes \$12,000,000 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.

POWER MARKETING ADMINISTRATIONS

The agreement recognizes the important role the Power Marketing Administrations [PMAs] play in delivering affordable power, maintaining grid reliability, and supporting the Nation's federal multi-purpose water projects. The Department's request to divest the transmission assets of the Bonneville Power Administration, Southwestern Power Administration, and Western Area Power Administration could increase costs for millions of consumers, decrease grid reliability, and reduce services to rural communities. No funds are recommended to divest transmission assets of the PMAs. Further, the agreement reminds the Department of the prohibition on studying transfer of PMA assets, included in the Urgent Supplemental Appropriations Act, 1986 (Public Law 99-349).

BONNEVILLE POWER ADMINISTRATION FUND

The agreement provides no appropriation for the Bonneville Power Administration, which derives its funding from revenues deposited into the Bonneville Power Administration Fund.

OPERATION AND MAINTENANCE, SOUTHEASTERN POWER ADMINISTRATION

The agreement provides a net appropriation of \$0 for the Southeastern Power Administration.

OPERATION AND MAINTENANCE, SOUTHWESTERN POWER ADMINISTRATION

The agreement provides a net appropriation of \$10,400,000 for the Southwestern Power Administration. To ensure sufficient authority to meet purchase power and wheeling needs, the agreement includes \$19,000,000 above the level credited as offsetting collections by the Congressional Budget Office.

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

The agreement provides a net appropriation of \$89,372,000 for the Western Area Power Administration. To ensure sufficient authority to meet purchase power and wheeling needs, the agreement includes \$20,000,000 above the level credited as offsetting collections by the Congressional Budget Office.

FALCON AND AMISTAD OPERATING AND MAINTENANCE FUND

The agreement provides a net appropriation of \$228,000 for the Falcon and Amistad Operating and Maintenance Fund.

FEDERAL ENERGY REGULATORY COMMISSION
SALARIES AND EXPENSES

The agreement provides \$404,350,000 for the Federal Energy Regulatory Commission (FERC). Revenues for FERC are set to an amount equal to the budget authority, resulting in a net appropriation of \$0.

Interregional transmission planning is important to the effective deployment of renewable energy sources, and FERC is encouraged to undertake a review to evaluate the effectiveness of its existing interregional transmission coordination requirements and consider specific improvements to those requirements that would better promote the identification and development of more efficient and cost-effective transmission facilities and cost allocation methodologies that reflect the multiple benefits provided by interregional transmission facilities.

FERC is encouraged to prioritize meaningful opportunities for public engagement and coordination with state and local governments in the federal permitting and review processes of energy infrastructure proposals. Specifically, review processes should remain transparent and consistent, and ensure the health, safety, and security of the environment and each affected community.

Dam safety is a critical part of FERC's hydropower program and a shared responsibility with the states. FERC is encouraged to conduct a technical conference with the participation of states on the topic of improving dam safety.

FERC is directed to submit to the Committees on Appropriations of both Houses of Congress not later than 180 days after enactment of this Act a report detailing how it will establish and operate the Office of Public Participation required under section 319 of the Federal Power Act, beginning in fiscal year 2022. As part of the report, FERC shall provide an organizational structure and budget for the office sufficient to carry out its statutory obligations. The report shall assume that funding for the Office of Public Participation will be derived through annual charges and filing fees as authorized by the Federal Power Act and the Omnibus Budget Reconciliation Act of 1986.

Interstate Pipeline Reliability.—On September 23, 2020, the Government Accountability Office (GAO) published a report, *Interstate Transportation of Natural Gas Is Generally Reliable, but FERC Should Better Identify and Assess Emerging Risks* (GAO-20-658), which recommended FERC use all available information to identify and assess risks to the reliability of natural gas transmission service and to develop and document appropriate responses to service disruptions. FERC is directed to provide the Committees on Appropriations of both Houses of Congress not later than 60 days after enactment of this Act a briefing on implementation of GAO's recommendations. Further, FERC, in consultation with state regulators and the Pipeline and Hazardous Materials Safety Administration, is directed to submit to the Committees not later than 120 days after enactment of this Act a report on broader efforts to work with natural gas pipeline operators to ensure the reliability of the interstate natural gas pipeline system and include any statutory or regulatory barriers to achieving this goal.

GENERAL PROVISIONS—DEPARTMENT OF ENERGY
(INCLUDING TRANSFER OF FUNDS)

The agreement includes a provision prohibiting 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 Congress; requires notification or a report for certain funding actions; prohibits funds to be used for certain multi-year “Energy Programs” activities without notification; and prohibits the obligation or expenditure of funds provided in this title through a reprogramming of funds except in certain circumstances. The notification requirements in the provision also apply to the modification of any grant, contract, or Other Transaction Agreement where funds are allocated for new programs, projects, or activities not covered by a previous notification.

The agreement includes a provision authorizing intelligence activities of the Department of Energy for purposes of section 504 of the National Security Act of 1947.

The agreement includes a provision prohibiting the use of funds in this title for capital construction of high hazard nuclear facilities, unless certain independent oversight is conducted.

The agreement includes a provision prohibiting the use of funds 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 agreement includes a provision regarding authority to release refined petroleum product from the Strategic Petroleum Reserve.

The agreement includes a provision regarding environmental stewardship and endangered species recovery efforts.

[INSERT TABLE]

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
ENERGY PROGRAMS					
ENERGY EFFICIENCY AND RENEWABLE ENERGY					
Sustainable Transportation:					
Vehicle Technologies.....	396,000	74,400	400,000	+4,000	+325,600
Bioenergy Technologies.....	259,500	44,500	255,000	-4,500	+210,500
Hydrogen and Fuel Cell Technologies.....	150,000	42,000	150,000	---	+108,000
Subtotal, Sustainable Transportation.....	805,500	160,900	805,000	-500	+644,100
Renewable Energy:					
Solar Energy Technologies.....	280,000	67,000	280,000	---	+213,000
Wind Energy Technologies.....	104,000	22,100	110,000	+6,000	+87,900
Water Power Technologies.....	148,000	45,000	150,000	+2,000	+105,000
Geothermal Technologies.....	110,000	26,000	106,000	-4,000	+80,000
Subtotal, Renewable Energy.....	642,000	160,100	646,000	+4,000	+485,900
Energy Efficiency:					
Advanced Manufacturing.....	395,000	94,600	396,000	+1,000	+301,400
Building Technologies.....	285,000	61,000	290,000	+5,000	+229,000
Federal Energy Management Program.....	40,000	8,400	40,000	---	+31,600
Weatherization:					
Weatherization assistance program.....	305,000	---	310,000	+5,000	+310,000
Training and technical assistance.....	3,500	---	5,000	+1,500	+5,000
Subtotal, Weatherization.....	308,500	---	315,000	+6,500	+315,000

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
State Energy Program Grants.....	62,500	---	62,500	---	+62,500
Subtotal, Weatherization and Intergovernmental Program.....	371,000	---	377,500	+6,500	+377,500
Subtotal, Energy Efficiency.....	1,091,000	164,000	1,103,500	+12,500	+939,500
Corporate Support:					
Facilities and Infrastructure:					
National Renewable Energy Laboratory (NREL).....	130,000	107,000	130,000	---	+23,000
Program Direction	165,000	122,563	165,000	---	+42,437
Strategic Programs.....	14,500	5,000	14,500	---	+9,500
Subtotal, Corporate Support.....	309,500	234,563	309,500	---	+74,937
Subtotal, Energy Efficiency and Renewable Energy..	2,848,000	719,563	2,864,000	+16,000	+2,144,437
Rescission.....	-58,000	---	-2,240	+55,760	-2,240
TOTAL, ENERGY EFFICIENCY AND RENEWABLE ENERGY.....	2,790,000	719,563	2,861,760	+71,760	+2,142,197

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
CYBERSECURITY, ENERGY SECURITY, AND EMERGENCY RESPONSE					
Cybersecurity for Energy Delivery Systems.....	95,000	103,100	96,000	+1,000	-7,100
Infrastructure Security and Energy Restoration.....	48,000	70,000	48,000	---	-22,000
Program Direction.....	13,000	11,521	12,000	-1,000	+479
TOTAL, CYBERSECURITY, ENERGY SECURITY, AND EMERGENCY RESPONSE.....	156,000	184,621	156,000	---	-28,621
ELECTRICITY					
Transmission Reliability and Resilience.....	57,000	55,950	48,220	-8,780	-7,730
Resilient Distribution Systems.....	45,000	18,300	50,000	+5,000	+31,700
Energy Storage:					
Research.....	55,000	43,500	57,000	+2,000	+13,500
Construction: 20-0E-100 Grid Storage Launchpad.....	1,000	40,000	23,000	+22,000	-17,000
Subtotal, Energy Storage.....	56,000	83,500	80,000	+24,000	-3,500
Transformer Resilience and Advanced Components.....	7,000	9,000	7,500	+500	-1,500
DCEI Energy Mission Assurance.....	---	1,650	1,000	+1,000	-650
Transmission Permitting and Technical Assistance.....	7,000	7,000	7,000	---	---
Program Direction.....	18,000	19,645	18,000	---	-1,645
TOTAL, ELECTRICITY.....	190,000	195,045	211,720	+21,720	+16,675

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
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:					
Crosscutting Technology Development.....	25,000	28,000	28,000	+3,000	---
Joint Modeling and Simulation Program.....	35,000	30,000	35,000	---	+5,000
Nuclear Science User Facilities.....	30,000	28,000	30,000	---	+2,000
Transformational Challenger Reactor.....	23,450	30,000	29,869	+6,419	-131
Subtotal, Nuclear Energy Enabling Technologies..	113,450	116,000	122,869	+9,419	+6,869
Fuel Cycle Research and Development:					
Front End Fuel Cycle:					
Mining, Conversion, and Transportation.....	2,000	2,000	2,000	---	---
Civil Nuclear Enrichment.....	40,000	40,000	40,000	---	---
Subtotal, Front End Fuel Cycle.....	42,000	42,000	42,000	---	---
Material Recovery and Waste Form Development.....	30,000	12,000	25,000	-5,000	+13,000
Advanced Fuels:					
Accident Tolerant Fuels.....	95,800	36,000	105,800	+10,200	+69,800
Triso Fuel and Graphite Qualification.....	30,000	34,000	36,000	+6,000	+2,000
Subtotal, Advanced Fuels.....	125,800	70,000	141,800	+16,200	+71,800

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Fuel Cycle Laboratory R&D.....	20,000	3,000	20,000	---	+17,000
Used Nuclear Fuel Disposition R&D.....	62,500	60,000	62,500	---	+2,500
Integrated Waste Management System.....	25,000	---	18,000	-7,000	+18,000
Subtotal, Fuel Cycle Research and Development...	305,100	187,000	309,300	+4,200	+122,300
Reactor Concepts RD&D:					
Advanced Small Modular Reactor RD&D.....	100,000	10,000	115,000	+15,000	+105,000
Light Water Reactor Sustainability.....	47,000	30,500	47,000	---	+16,500
Advanced Reactor Technologies.....	55,000	71,000	46,000	-9,000	-25,000
Versatile Advanced Test Reactor R&D.....	65,000	---	---	-65,000	---
Subtotal, Reactor Concepts RD&D.....	267,000	111,500	208,000	-59,000	+96,500
Versatile Test Reactor Project:					
Other Project Costs.....	---	33,000	43,000	+43,000	+10,000
21-E-200 VTR Project.....	---	262,000	2,000	+2,000	-260,000
Subtotal, Versatile Test Reactor Project.....	---	295,000	45,000	+45,000	-250,000
Advanced Reactors Demonstration Program:					
National Reactor Innovation Center.....	20,000	10,000	30,000	+10,000	+20,000
Demonstration 1.....	80,000	---	80,000	---	+80,000
Demonstration 2.....	80,000	---	80,000	---	+80,000
Risk Reduction for Future Demonstrations.....	30,000	---	40,000	+10,000	+40,000

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Regulatory Development.....	15,000	7,500	15,000	---	+7,500
Advanced Reactors Safeguards.....	5,000	2,500	5,000	---	+2,500
Subtotal, Advanced Reactors Demonstration Program.....	230,000	20,000	250,000	+20,000	+230,000
Subtotal, Research and Development.....	925,550	729,500	945,169	+19,619	+215,669
Infrastructure:					
ORNL Nuclear Facilities O&M.....	20,000	---	20,000	---	+20,000
INL Facilities Operations and Maintenance.....	280,000	208,000	280,000	---	+72,000
Research Reactor Infrastructure	9,000	11,500	11,500	+2,500	---
Construction:					
16-E-200 Sample Preparation Laboratory, INL.....	25,450	18,000	26,000	+550	+8,000
Subtotal, Construction.....	25,450	18,000	26,000	+550	+8,000
Subtotal, Infrastructure.....	334,450	237,500	337,500	+3,050	+100,000
Idaho Sitewide Safeguards and Security.....	153,408	137,800	149,800	-3,608	+12,000
Program Direction.....	80,000	75,131	75,131	-4,869	---
TOTAL, NUCLEAR ENERGY.....	1,493,408	1,179,931	1,507,600	+14,192	+327,669
URANIUM RESERVE PROGRAM.....	---	150,000	---	---	-150,000

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
FOSSIL ENERGY RESEARCH AND DEVELOPMENT					
CCUS and Power Systems:					
Carbon Capture.....	117,800	78,000	126,300	+8,500	+48,300
Carbon Utilization.....	---	15,000	23,000	+23,000	+8,000
Carbon Storage.....	100,000	30,000	79,000	-21,000	+49,000
Advanced Energy Systems.....	120,000	285,400	122,000	+2,000	-163,400
Cross Cutting Research.....	56,000	101,750	72,000	+16,000	-29,750
NETL Coal Research and Development.....	61,000	36,000	---	-61,000	-36,000
STEP (Supercritical CO2).....	16,000	---	14,500	-1,500	+14,500
Transformational Coal Pilots.....	20,000	---	10,000	-10,000	+10,000
Subtotal, CCUS and Power Systems.....	490,800	546,150	446,800	-44,000	-99,350
Natural Gas Technologies:					
Research.....	51,000	15,000	57,000	+6,000	+42,000
Unconventional Fossil Energy Technologies from					
Petroleum - Oil Technologies.....	46,000	17,000	46,000	---	+29,000
Program Direction.....	61,500	62,451	61,500	---	-951
Special Recruitment Programs.....	700	900	700	---	-200
NETL Research and Operations.....	50,000	46,000	83,000	+33,000	+37,000
NETL Infrastructure.....	50,000	43,100	55,000	+5,000	+11,900
TOTAL, FOSSIL ENERGY RESEARCH AND DEVELOPMENT.....	750,000	730,601	750,000	---	+19,399
NAVAL PETROLEUM AND OIL SHALE RESERVES.....					
	14,000	13,006	13,006	-994	---

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
STRATEGIC PETROLEUM RESERVE					
Strategic Petroleum Reserve.....	195,000	187,081	188,000	-7,000	+919
Sale of Crude Oil.....	-450,000	---	---	+450,000	---
Use of Sale Proceeds.....	450,000	---	---	-450,000	---
TOTAL, STRATEGIC PETROLEUM RESERVE.....	195,000	187,081	188,000	-7,000	+919
SPR PETROLEUM ACCOUNT					
SPR Petroleum Reserve.....	10,000	---	1,000	-9,000	+1,000
Sale of Crude Oil.....	---	-87,000	---	---	+87,000
Use of Sale Proceeds.....	---	19,000	---	---	-19,000
TOTAL, SPR PETROLEUM ACCOUNT.....	10,000	-68,000	1,000	-9,000	+69,000
NORTHEAST HOME HEATING OIL RESERVE					
Northeast Home Heating Oil Reserve.....	10,000	---	6,500	-3,500	+6,500
Sale of Northeast Home Heating Oil Reserve.....	---	-84,000	---	---	+84,000
TOTAL, NORTHEAST HOME HEATING OIL RESERVE.....	10,000	-84,000	6,500	-3,500	+90,500

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
ENERGY INFORMATION ADMINISTRATION.....	126,800	128,710	126,800	---	-1,910
NON-DEFENSE ENVIRONMENTAL CLEANUP					
Fast Flux Test Reactor Facility (WA).....	2,500	2,500	2,500	---	---
Gaseous Diffusion Plants.....	113,085	115,554	115,554	+2,469	---
Small Sites.....	127,000	69,653	110,933	-16,067	+41,280
West Valley Demonstration Project.....	75,215	88,113	88,113	+12,898	---
Management and Storage of Elemental Mercury.....	1,200	---	2,100	+900	+2,100
Mercury Receipts.....	---	-3,000	3,000	+3,000	+6,000
Use of Mercury Receipts.....	---	3,000	-3,000	-3,000	-6,000
Community and Regulatory Support.....	200	---	---	-200	---
TOTAL, NON-DEFENSE ENVIRONMENTAL CLEANUP.....	319,200	275,820	319,200	---	+43,380
URANIUM ENRICHMENT DECONTAMINATION AND DECOMMISSIONING FUND					
Oak Ridge.....	195,693	144,701	134,701	-60,992	-10,000
Nuclear Facility D&D, Paducah.....	240,000	206,518	240,000	---	+33,482
Portsmouth:					
Nuclear Facility D&D, Portsmouth.....	367,193	351,854	367,193	---	+15,339
Construction:					
15-U-408 On-site Waste Disposal Facility, Portsmouth.....	41,102	46,639	46,639	+5,537	---

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
20-U-401 On-site Waste Disposal Facility (Cell Line 2&3).....	10,000	16,500	16,500	+6,500	---
Subtotal, Portsmouth.....	418,295	414,993	430,332	+12,037	+15,339
Pension and Community and Regulatory Support.....	21,762	18,748	30,967	+9,205	+12,219
Title X Uranium/Thorium Reimbursement Program.....	5,250	21,284	5,000	-250	-16,284
TOTAL, UED&D FUND.....	881,000	806,244	841,000	-40,000	+34,756

SCIENCE

Advanced Scientific Computing Research:					
Research.....	791,265	819,106	846,055	+54,790	+26,949
Construction:					
17-SC-20 Office of Science Exascale Computing Project (SC-ECP).....	188,735	168,945	168,945	-19,790	---
Subtotal, Advanced Scientific Computing Research.....	980,000	988,051	1,015,000	+35,000	+26,949
Basic Energy Sciences:					
Research.....	1,853,000	1,751,673	1,856,000	+3,000	+104,327
Construction:					
13-SC-10 LINAC coherent light source II (LCLS-II), SLAC.....	---	---	33,000	+33,000	+33,000

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
18-SC-10 Advanced Photon Source Upgrade (APS-U), ANL.....	170,000	150,000	160,000	-10,000	+10,000
18-SC-11 Spallation Neutron Source Proton Power Upgrade (PPU), ORNL.....	60,000	5,000	52,000	-8,000	+47,000
18-SC-12 Advanced Light Source Upgrade (ALS-U), LBNL.....	60,000	13,000	62,000	+2,000	+49,000
18-SC-13 Linac Coherent Light Source-II-High Energy (LCLS-II-HE), SLAC.....	50,000	14,000	52,000	+2,000	+38,000
19-SC-14 Second Target Station (STS), ORNL.....	20,000	1,000	29,000	+9,000	+28,000
21-SC-10 Cryomodule Repair and Maintenance Facility.....	---	1,000	1,000	+1,000	---
Subtotal, Construction.....	360,000	184,000	389,000	+29,000	+205,000
Subtotal, Basic Energy Sciences.....	2,213,000	1,935,673	2,245,000	+32,000	+309,327
Biological and Environmental Research.....	750,000	516,934	753,000	+3,000	+236,066
Fusion Energy Sciences Research.....	414,000	313,151	415,000	+1,000	+101,849
Construction:					
14-SC-60 U.S. Contributions to ITER (U.S. ITER). 20-SC-61 Matter in Extreme Conditions (MEC) Petawatt Upgrade, SLAC.....	242,000	107,000	242,000	---	+135,000
	15,000	5,000	15,000	---	+10,000
Subtotal, Construction.....	257,000	112,000	257,000	---	+145,000
Subtotal, Fusion Energy Sciences.....	671,000	425,151	672,000	+1,000	+246,849

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
High Energy Physics					
Research.....	814,000	697,631	794,000	-20,000	+96,369
Construction:					
11-SC-40 Long Baseline Neutrino Facility / Deep Underground Neutrino Experiment (LBNF/DUNE), FNAL.....	171,000	100,500	171,000	---	+70,500
11-SC-41 Muon to electron conversion experiment, FNAL.....	---	---	2,000	+2,000	+2,000
18-SC-42 Proton Improvement Plan II (PIP-II), FNAL.....	60,000	20,000	79,000	+19,000	+59,000
Subtotal, Construction.....	231,000	120,500	252,000	+21,000	+131,500
Subtotal, High Energy Physics.....	1,045,000	818,131	1,046,000	+1,000	+227,869
Nuclear Physics:					
Research.....	660,000	635,027	690,700	+30,700	+55,673
Construction:					
14-SC-50 Facility for Rare Isotope Beams, MSU...	40,000	5,300	5,300	-34,700	---
20-SC-51 U.S. Stable Isotope Production and Research Center, ORNL.....	12,000	12,000	12,000	---	---
20-SC-52 Electron Ion Collider, BNL.....	1,000	1,000	5,000	+4,000	+4,000
Subtotal, Construction.....	53,000	18,300	22,300	-30,700	+4,000
Subtotal, Nuclear Physics.....	713,000	653,327	713,000	---	+59,673

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Workforce Development for Teachers and Scientists.....	28,000	20,500	29,000	+1,000	+8,500
Science Laboratories Infrastructure:					
Infrastructure Support:					
Payment in Lieu of Taxes.....	4,540	4,650	4,650	+110	---
Oak Ridge Landlord.....	5,610	5,860	5,860	+250	---
Facilities and Infrastructure.....	56,850	6,200	29,790	-27,060	+23,590
Oak Ridge Nuclear Operations.....	26,000	6,000	26,000	---	+20,000
Subtotal, Infrastructure Support.....	93,000	22,710	66,300	-26,700	+43,590
Construction:					
17-SC-71 Integrated Engineering Research Center, FNAL.....	22,000	12,000	10,250	-11,750	-1,750
18-SC-71 Energy Sciences Capability, PNNL.....	23,000	23,000	23,000	---	---
19-SC-71 Science User Support Center, BNL.....	20,000	7,000	20,000	---	+13,000
19-SC-72 Electrical Capacity and Distribution Capability, ANL.....	30,000	---	---	-30,000	---
19-SC-73 Translational Research Capability, ORNL..	25,000	10,000	22,000	-3,000	+12,000
19-SC-74 BioEPIC, LBNL.....	15,000	6,000	20,000	+5,000	+14,000
20-SC-71 Critical Utilities Rehabilitation Project, BNL.....	20,000	15,000	20,000	---	+5,000
20-SC-72 Seismic and Safety Modernization, LBNL..	10,000	10,000	5,000	-5,000	-5,000
20-SC-73 CEBAF Renovation and Expansion, TJNAF ..	2,000	2,000	2,000	---	---
20-SC-74 Craft Resources Support Facility, ORNL ..	15,000	25,000	25,000	+10,000	---
20-SC-75 Large Scale Collaboration Center, SLAC ..	11,000	8,000	11,000	---	+3,000

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
20-SC-76 Tritium System Demolition and Disposal, PPPL.....	13,000	19,400	13,000	---	-6,400
20-SC-77 Argonne Utilities Upgrade, ANL	500	2,000	500	---	-1,500
20-SC-78 Linear Assets Modernization Project, LBNL	500	2,000	500	---	-1,500
20-SC-79 Critical Utilities Infrastructure Revitalization, SLAC	500	2,000	500	---	-1,500
20-SC-80 Utilities Infrastructure Project, FNAL ..	500	2,000	500	---	-1,500
21-SC-71 Princeton Plasma Innovation Center, PPPL	---	2,000	150	+150	-1,850
21-SC-72 Critical Infrastructure Recovery & Renewal, PPPL.....	---	2,000	150	+150	-1,850
21-SC-73 Ames Infrastructure Modernization.....	---	2,000	150	+150	-1,850
Subtotal, Construction:.....	208,000	151,400	173,700	-34,300	+22,300
Subtotal, Science Laboratories Infrastructure.	301,000	174,110	240,000	-61,000	+65,890
Safeguards and Security.....	112,700	115,623	121,000	+8,300	+5,377
Program Direction.....	186,300	190,306	192,000	+5,700	+1,694
TOTAL, SCIENCE.....	7,000,000	5,837,806	7,026,000	+26,000	+1,188,194
NUCLEAR WASTE DISPOSAL.....	---	27,500	27,500	+27,500	---
ADVANCED RESEARCH PROJECTS AGENCY-ENERGY					
ARPA-E Projects.....	390,000	---	392,000	+2,000	+392,000
Program Direction.....	35,000	21,256	35,000	---	+13,744

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Rescission of Prior Year Balances.....	---	-332,000	---	---	+332,000
TOTAL, ARPA-E.....	425,000	-310,744	427,000	+2,000	+737,744
TITLE 17 - INNOVATIVE TECHNOLOGY LOAN GUARANTEE PGM					
Administrative Expenses.....	32,000	3,000	32,000	---	+29,000
Offsetting Collection.....	-3,000	-3,000	-3,000	---	---
Rescission.....	---	-160,659	---	---	+160,659
Rescission of emergency funding.....	---	---	-392,000	-392,000	-392,000
Cancellation of Commitment Authority.....	---	-224,000	---	---	+224,000
TOTAL, TITLE 17 - INNOVATIVE TECHNOLOGY LOAN GUARANTEE PROGRAM.....	29,000	-384,659	-363,000	-392,000	+21,659
ADVANCED TECHNOLOGY VEHICLES MANUFACTURING LOAN PGM					
Administrative Expenses.....	5,000	---	5,000	---	+5,000
Rescission of emergency funding.....	---	---	-1,908,000	-1,908,000	-1,908,000
TOTAL, ADVANCED TECHNOLOGY VEHICLES MANUFACTURING LOAN PROGRAM.....	5,000	---	-1,903,000	-1,908,000	-1,903,000
TRIBAL ENERGY LOAN GUARANTEE PROGRAM					
Administrative Expenses.....	2,000	---	2,000	---	+2,000

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Rescission.....	---	-8,500	---	---	+8,500
TOTAL, TRIBAL ENERGY LOAN GUARANTEE PROGRAM.....	2,000	-8,500	2,000	---	+10,500
OFFICE OF INDIAN ENERGY POLICY AND PROGRAMS					
Indian Energy Program.....	17,000	4,479	17,000	---	+12,521
Program Direction.....	5,000	3,526	5,000	---	+1,474
TOTAL, OFFICE OF INDIAN ENERGY POLICY AND PROGRAMS.....	22,000	8,005	22,000	---	+13,995
DEPARTMENTAL ADMINISTRATION					
Administrative Operations:					
Salaries and Expenses:					
Office of the Secretary.....	5,119	5,582	5,582	+463	---
Congressional and Intergovernmental Affairs.....	4,395	5,616	5,000	+605	-616
Chief Financial Officer.....	52,000	53,591	53,590	+1,590	-1
Economic Impact and Diversity.....	10,169	9,931	10,169	---	+238
Chief Information Officer.....	140,200	134,778	140,200	---	+5,422
Artificial Intelligence and Technology Office...	2,500	---	2,500	---	+2,500
International Affairs.....	26,825	---	26,825	---	+26,825
Other Departmental Administration:					
Other Departmental Administration.....	152,262	183,763	159,301	+7,039	-4,462
Subtotal, Salaries and Expenses.....	393,470	373,261	403,167	+9,697	+29,906

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Strategic Partnership Projects.....	40,000	40,000	40,000	---	---
Subtotal, Departmental Administration.....	433,470	413,261	443,167	+9,697	+29,906
Funding from Other Defense Activities.....	-179,092	-183,789	-183,789	-4,697	---
Total, Departmental Administration (Gross).....	254,378	229,472	259,378	+5,000	+29,906
Miscellaneous revenues.....	-93,378	-93,378	-93,378	---	---
TOTAL, DEPARTMENTAL ADMINISTRATION (Net).....	161,000	136,094	166,000	+5,000	+29,906
ARTIFICIAL INTELLIGENCE AND TECHNOLOGY OFFICE.....	---	4,912	---	---	-4,912
INTERNATIONAL AFFAIRS.....	---	32,959	---	---	-32,959
OFFICE OF THE INSPECTOR GENERAL					
Office of the Inspector general.....	54,215	57,739	57,739	+3,524	---
TOTAL, ENERGY PROGRAMS.....	14,633,623	9,819,734	12,444,825	-2,188,798	+2,625,091

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

ATOMIC ENERGY DEFENSE ACTIVITIES					
NATIONAL NUCLEAR SECURITY ADMINISTRATION					
WEAPONS ACTIVITIES					
Stockpile Management:					
Stockpile Major Modernization					
B61 Life Extension Program.....	792,611	815,710	815,710	+23,099	---
W76-2 Modification Program.....	10,000	---	---	-10,000	---
W88 Alteration Program.....	304,186	256,922	256,922	-47,264	---
W80-4 Life Extension Program.....	898,551	1,000,314	1,000,314	+101,763	---
W87-1 Modification Program.....	112,011	541,000	541,000	+428,989	---
W93.....	---	53,000	53,000	+53,000	---
Subtotal, Stockpile Major Modernization.....	2,117,359	2,666,946	2,666,946	+549,587	---
Stockpile Sustainment:					
B61 Stockpile systems.....	71,232	---	---	-71,232	---
W76 Stockpile systems.....	89,804	---	---	-89,804	---
W78 Stockpile systems.....	81,299	---	---	-81,299	---
W80 Stockpile systems.....	80,204	---	---	-80,204	---
B83 Stockpile systems.....	51,543	---	---	-51,543	---
W87 Stockpile systems.....	98,262	---	---	-98,262	---
W88 Stockpile systems.....	157,815	---	---	-157,815	---
Subtotal, Stockpile Sustainment.....	630,159	---	---	-630,159	---

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Stockpile Sustainment.....	---	998,357	998,357	+998,357	---
Weapons dismantlement and disposition.....	56,000	50,000	56,000	---	+6,000
Production Operations.....	---	568,941	568,941	+568,941	---
Stockpile Services:					
Production support.....	543,964	---	---	-543,964	---
Research and Development support.....	39,339	---	---	-39,339	---
R and D certification and safety.....	236,235	---	---	-236,235	---
Management, Technology, and Production.....	305,000	---	---	-305,000	---
Subtotal, Stockpile Services.....	1,124,538	---	---	-1,124,538	---
Subtotal, Stockpile Management.....	3,928,056	4,284,244	4,290,244	+362,188	+6,000
Strategic Materials:					
Uranium Sustainment.....	94,146	---	---	-94,146	---
Plutonium Sustainment:					
Plutonium Sustainment Operations.....	691,284	---	---	-691,284	---
Plutonium Pit Production Project.....	21,156	---	---	-21,156	---
Subtotal, Plutonium sustainment.....	712,440	---	---	-712,440	---
Tritium Sustainment.....	269,000	---	---	-269,000	---
Lithium Sustainment.....	28,800	---	---	-28,800	---
Domestic Uranium Enrichment.....	70,000	---	---	-70,000	---
HEU Downblend.....	90,000	---	---	-90,000	---

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Strategic materials sustainment.....	256,808	---	---	-256,808	---
Subtotal, Strategic materials.....	1,521,194	---	---	-1,521,194	---
Production Modernization					
Primary Capability Modernization					
Plutonium Modernization					
Los Alamos Plutonium Operations.....	---	610,599	610,599	+610,599	---
21-D-512, Plutonium Pit Production Project, LANL	---	226,000	226,000	+226,000	---
Subtotal, Los Alamos Plutonium Modernization..	---	836,599	836,599	+836,599	---
Savannah River Plutonium Operations.....	---	200,000	200,000	+200,000	---
21-D-511, Savannah River Plutonium Processing Facility, SRS.....	---	241,896	241,896	+241,896	---
Subtotal, Savannah River Plutonium Modernization.....	---	441,896	441,896	+441,896	---
Enterprise Plutonium Support.....	---	90,782	90,782	+90,782	---
Subtotal, Plutonium Modernization.....	---	1,369,277	1,369,277	+1,369,277	---
High Explosives & Energetics.....	---	63,620	63,620	+63,620	---

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	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
HESE OPCs.....	---	3,750	3,750	+3,750	---
Subtotal, HE & Energetics.....	---	67,370	67,370	+67,370	---
Subtotal, Primary Capability Modernization.....	---	1,436,647	1,436,647	+1,436,647	---
Secondary Capability Modernization.....	---	457,004	---	---	-457,004
Uranium Sustainment.....	---	---	242,732	+242,732	+242,732
Process Technology Development.....	---	---	63,957	+63,957	+63,957
Depleted Uranium Modernization.....	---	---	110,915	+110,915	+110,915
Lithium Modernization.....	---	---	39,400	+39,400	+39,400
Subtotal, Secondary Capability Modernization..	---	457,004	457,004	+457,004	---
Tritium and Domestic Uranium Enrichment.....	---	457,112	---	---	-457,112
Tritium Sustainment and Modernization.....	---	---	312,109	+312,109	+312,109
Domestic Uranium Enrichment.....	---	---	70,000	+70,000	+70,000
HEU Downblend.....	---	---	90,000	+90,000	+90,000
Uranium Reserve.....	---	---	75,000	+75,000	+75,000
Subtotal, Tritium & DUE.....	---	457,112	547,109	+547,109	+89,997
Non-Nuclear Capability Modernization.....	---	107,137	107,137	+107,137	---
Total, Production Modernization.....	---	2,457,900	2,547,897	+2,547,897	+89,997

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	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Stockpile Research, Technology, and Engineering					
Assessment Science.....	---	773,111	---	---	-773,111
Primary Assessment Technologies.....	---	---	150,000	+150,000	+150,000
Dynamic Materials Properties.....	---	---	130,981	+130,981	+130,981
Advanced Diagnostics.....	---	---	35,989	+35,989	+35,989
Secondary Assessment Technologies.....	---	---	84,000	+84,000	+84,000
Enhanced Capabilities for Subcritical Experiments.....	---	---	215,579	+215,579	+215,579
Hydrodynamic & Subcritical Execution Support.....	---	---	152,845	+152,845	+152,845
Subtotal, Assessment Science.....	---	773,111	769,394	+769,394	-3,717
Engineering and Integrated Assessments.....	---	337,404	---	---	-337,404
Archiving & Support.....	---	---	45,760	+45,760	+45,760
Delivery Environments.....	---	---	39,235	+39,235	+39,235
Weapons Survivability.....	---	---	59,500	+59,500	+59,500
Aging & Lifetimes.....	---	---	62,260	+62,260	+62,260
Stockpile Responsiveness.....	---	---	70,000	+70,000	+70,000
Advanced Certification & Qualification.....	---	---	60,649	+60,649	+60,649
Subtotal, Engineering and Integrated Assessments.....	---	337,404	337,404	+337,404	---
Inertial Confinement Fusion.....	---	554,725	575,000	+575,000	+20,275
Subtotal, Inertial Confinement Fusion.....	---	554,725	575,000	+575,000	+20,275
Advanced Simulation and Computing.....	---	732,014	732,014	+732,014	---

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Weapon Technology and Manufacturing Maturation....	---	297,965	---	---	-297,965
Surety Technology.....	---	---	54,365	+54,365	+54,365
Weapon Technology Development.....	---	---	131,692	+131,692	+131,692
Advanced Manufacturing Development.....	---	---	111,908	+111,908	+111,908
Subtotal, Weapon Technology and Manufacturing Maturation.....	---	297,965	297,965	+297,965	---
Academic Programs.....	---	86,912	101,912	+101,912	+15,000
Total, Stockpile Research and Engineering.....	---	2,782,131	2,813,689	+2,813,689	+31,558
Research, Development, Test and Evaluation (RDT&E):					
Science:					
Advanced Certification.....	57,710	---	---	-57,710	---
Primary Assessment Technologies.....	95,169	---	---	-95,169	---
Dynamic Materials Properties.....	128,000	---	---	-128,000	---
Advanced Radiography.....	32,710	---	---	-32,710	---
Secondary Assessment Technologies.....	77,553	---	---	-77,553	---
Academic Alliances and Partnerships.....	56,000	---	---	-56,000	---
Enhanced Capabilities for Subcritical Experiments.....	145,160	---	---	-145,160	---
Subtotal, Science.....	592,302	---	---	-592,302	---
Engineering:					
Enhanced Surety.....	43,000	---	---	-43,000	---
Delivery Environments.....	35,945	---	---	-35,945	---

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Nuclear Survivability.....	53,932	---	---	-53,932	---
Studies and Assessments.....	5,607	---	---	-5,607	---
Enhanced Surveillance.....	55,000	---	---	-55,000	---
Stockpile Responsiveness.....	70,000	---	---	-70,000	---
Subtotal, Engineering.....	263,484	---	---	-263,484	---
Inertial confinement fusion ignition and high yield:					
Ignition and Other Stockpile Programs.....	106,000	---	---	-106,000	---
Diagnostics, Cryogenics and Experimental Support.....	75,000	---	---	-75,000	---
Pulsed Power Inertial Confinement Fusion.....	8,571	---	---	-8,571	---
Joint Program in High Energy Density Laboratory Plasmas.....	8,492	---	---	-8,492	---
Facility operations and target production.....	366,937	---	---	-366,937	---
Subtotal, Inertial Confinement Fusion Ignition and High Yield.....	565,000	---	---	-565,000	---
Advanced Simulation and Computing:					
Advanced Simulation and Computing.....	789,849	---	---	-789,849	---

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Advanced Manufacturing Development:					
Additive Manufacturing.....	18,500	---	---	-18,500	---
Component Manufacturing Development.....	48,410	---	---	-48,410	---
Process Technology Development.....	70,000	---	---	-70,000	---
Subtotal, Advanced manufacturing development...	136,910	---	---	-136,910	---
Subtotal, RDT&E.....	2,347,545	---	---	-2,347,545	---
Infrastructure and Operations:					
Operations of facilities.....	900,000	1,014,000	1,014,000	+114,000	---
Safety and environmental operations.....	110,000	165,354	165,354	+55,354	---
Maintenance and repair of facilities.....	456,000	792,000	687,000	+211,000	-125,000
Subtotal, Operations.....	1,466,000	1,971,354	1,846,354	+380,354	-125,000
Recapitalization:					
Infrastructure and safety.....	447,657	670,000	573,717	+126,060	-96,283
Capability based investments.....	135,341	149,117	149,117	+13,776	---
Planning for Programmatic Construction (Pre-CD-1)...	---	84,787	10,000	+10,000	-74,787
Subtotal, Recapitalization.....	582,998	903,904	732,834	+149,836	-171,070
I&O Construction:					
Programmatic Construction					
06-D-141 Uranium Processing Facility, Y-12.....	745,000	750,000	750,000	+5,000	---

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
07-D-220-04 TRU Liquid Waste Facility, LANL.....	---	36,687	36,687	+36,687	---
15-D-301 HE Science & Engineering Facility, PX....	80,000	43,000	43,000	-37,000	---
15-D-302 TA-55 Reinvestment project III, LANL.....	---	30,000	30,000	+30,000	---
17-D-640 U1a complex enhancements project, NNSA...	35,000	160,600	160,600	+125,600	---
18-D-620 Exascale Computing Facility Modernization Project, LLNL.....	50,000	29,200	29,200	-20,800	---
18-D-650 Tritium Finishing Facility, SRS.....	27,000	27,000	27,000	---	---
18-D-690, Lithium processing facility, Y-12	32,000	109,405	109,405	+77,405	---
21-D-510 HE Synthesis, Formulation, and Production, PX.....	---	31,000	31,000	+31,000	---
Chemistry and Metallurgy Replacement (CMRR):					
04-D-125 Chemistry and metallurgy replacement project, LANL.....	168,444	169,427	169,427	+983	---
Subtotal, Programmatic Construction and CMRR..	1,137,444	1,386,319	1,386,319	+248,875	---
Mission Enabling					
15-D-611 Emergency Operations Center, SNL.....	4,000	36,000	36,000	+32,000	---
15-D-612 Emergency Operations Center, LLNL.....	5,000	27,000	27,000	+22,000	---

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

19-D-670 138kV Power Transmission System Replacement, NNSS.....	6,000	59,000	59,000	+53,000	---
Subtotal, Mission Enabling.....	15,000	122,000	122,000	+107,000	---

Subtotal, I&O Construction:.....	1,152,444	1,508,319	1,508,319	+355,875	---

Subtotal, Infrastructure and Operations.....	3,201,442	4,383,577	4,087,507	+886,065	-296,070
Secure Transportation Asset:					
STA Operations and Equipment.....	185,000	266,390	225,000	+40,000	-41,390
Program Direction.....	107,660	123,684	123,684	+16,024	---
Subtotal, Secure Transportation Asset.....	292,660	390,074	348,684	+56,024	-41,390
Defense Nuclear Security:					
Defense Nuclear Security (DNS).....	750,000	815,895	763,078	+13,078	-52,817
Construction:					
17-D-710 West End Protected Area Reduction Project, Y-12.....	25,000	11,000	26,000	+1,000	+15,000
Subtotal, Defense Nuclear Security.....	775,000	826,895	789,078	+14,078	-37,817

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Information Technology and Cyber Security.....	300,000	375,511	366,233	+66,233	-9,278
Legacy Contractor Pensions (WA).....	91,200	101,668	101,668	+10,468	---
TOTAL, WEAPONS ACTIVITIES.....	12,457,097	15,602,000	15,345,000	+2,887,903	-257,000
DEFENSE NUCLEAR NONPROLIFERATION					
Defense Nuclear Nonproliferation Programs:					
Material Management and Minimization:					
Conversion.....	99,000	170,000	110,000	+11,000	-60,000
Nuclear Material Removal.....	32,925	40,000	40,000	+7,075	---
Material Disposition.....	186,608	190,711	190,711	+4,103	---
Laboratory and Partnership Support.....	45,000	---	60,000	+15,000	+60,000
Subtotal, Material Management and Minimization....	363,533	400,711	400,711	+37,178	---
Global Material Security:					
International Nuclear Security.....	58,000	66,391	78,939	+20,939	+12,548
Domestic Radiologic Security.....	147,002	101,000	185,000	+37,998	+84,000
International Radiologic Security.....	78,907	73,340	90,000	+11,093	+16,660
Nuclear Smuggling Detection and Deterrence.....	159,000	159,749	175,000	+16,000	+15,251
Subtotal, Global Material Security.....	442,909	400,480	528,939	+86,030	+128,459
Nonproliferation and Arms Control.....	140,000	138,708	148,000	+8,000	+9,292
National Technical Nuclear Forensics R&D.....	---	40,000	40,000	+40,000	---

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Defense Nuclear Nonproliferation R&D:					
Proliferation Detection.....	299,046	235,220	255,000	-44,046	+19,780
Nuclear Detonation Detection.....	196,617	236,531	267,000	+70,383	+30,469
Nonproliferation Fuels Development.....	15,000	---	20,000	+5,000	+20,000
Nonproliferation Stewardship Program.....	22,500	59,900	59,900	+37,400	---
Subtotal, Defense Nuclear Nonproliferation R&D....	533,163	531,651	601,900	+68,737	+70,249
Nonproliferation Construction:					
99-D-143 Mixed Oxide (MOX) Fuel Fabrication Facility, SRS.....	220,000	---	---	-220,000	---
18-D-150 Surplus Plutonium Disposition Project, SRS.	79,000	148,589	148,589	+69,589	---
Subtotal, Nonproliferation Construction.....	299,000	148,589	148,589	-150,411	---
Nuclear Counterterrorism and Incident Response:					
Emergency Operations.....	35,545	36,000	36,000	+455	---
Counterterrorism and Counterproliferation.....	336,550	341,513	341,513	+4,963	---
Subtotal, Nuclear counterterrorism and incident response.....	372,095	377,513	377,513	+5,418	---
Legacy contractor pensions.....	13,700	14,348	14,348	+648	---
Use of prior-year balances.....	---	-21,000	---	---	+21,000
TOTAL, DEFENSE NUCLEAR NONPROLIFERATION.....	2,164,400	2,031,000	2,260,000	+95,600	+229,000

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
NAVAL REACTORS					
Naval Reactors Development.....	516,205	590,306	568,000	+51,795	-22,306
Columbia-class Reactor Systems Development.....	75,500	64,700	64,700	-10,800	---
S8G Prototype Refueling.....	170,000	135,000	135,000	-35,000	---
Naval Reactors Operations and Infrastructure.....	553,591	506,294	530,600	-22,991	+24,306
Program Direction.....	50,500	53,700	51,700	+1,200	-2,000
Construction:					
14-D-901 Spent Fuel Handling Recapitalization project, NRF.....	238,000	330,000	330,000	+92,000	---
19-D-930 KS Overhead Piping.....	20,900	---	---	-20,900	---
20-D-931, KL Fuel Development Laboratory.....	23,700	---	---	-23,700	---
21-D-530 KL Steam and Condensate Upgrades.....	---	4,000	4,000	+4,000	---
Subtotal, Construction.....	282,600	334,000	334,000	+51,400	---
TOTAL, NAVAL REACTORS.....	1,648,396	1,684,000	1,684,000	+35,604	---
FEDERAL SALARIES AND EXPENSES.....	434,699	454,000	443,200	+8,501	-10,800
TOTAL, NATIONAL NUCLEAR SECURITY ADMINISTRATION...	16,704,592	19,771,000	19,732,200	+3,027,608	-38,800

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
DEFENSE ENVIRONMENTAL CLEANUP					
Closure Sites Administration.....	4,987	4,987	4,987	---	---
Richland:					
River Corridor and Other Cleanup Operations.....	236,102	54,949	232,479	-3,623	+177,530
Central Plateau Remediation.....	654,800	498,335	670,000	+15,200	+171,665
RL Community and Regulatory Support.....	10,121	2,500	8,621	-1,500	+6,121
Construction:					
18-D-404 WESF Modifications and Capsule Storage...	11,000	---	15,000	+4,000	+15,000
Subtotal, Construction.....	11,000	---	15,000	+4,000	+15,000
Subtotal, Richland.....	912,023	555,784	926,100	+14,077	+370,316
Office of River Protection:					
Waste Treatment and Immobilization Plant					
Commissioning.....	15,000	50,000	50,000	+35,000	---
Rad Liquid Tank Waste Stabilization and Disposition.	775,000	597,757	784,000	+9,000	+186,243
Construction:					
01-D-16 D High-level Waste Facility.....	25,000	---	25,000	---	+25,000
01-D-16 E Pretreatment Facility.....	15,000	---	---	-15,000	---
18-D-16 Waste Treatment and Immobilization Plant - LBL/Direct Feed LAW.....	776,000	609,924	786,000	+10,000	+176,076
Subtotal, Construction.....	816,000	609,924	811,000	-5,000	+201,076

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
ORP Low-level Waste Offsite Disposal.....	10,000	---	---	-10,000	---
Subtotal, Office of River Protection.....	1,616,000	1,257,681	1,645,000	+29,000	+387,319
Idaho National Laboratory:					
Idaho Cleanup and Waste Disposition.....	430,000	257,554	430,000	---	+172,446
Idaho Community and Regulatory Support.....	3,500	2,400	3,500	---	+1,100
Total, Idaho National Laboratory.....	433,500	259,954	433,500	---	+173,546
NNSA Sites and Nevada Offsites:					
Lawrence Livermore National Laboratory.....	1,727	1,764	1,764	+37	---
Separations Process Research Unit.....	15,300	15,000	15,000	-300	---
Nevada.....	60,737	60,737	60,737	---	---
Sandia National Laboratory.....	2,652	4,860	4,860	+2,208	---
Los Alamos National Laboratory.....	220,000	120,000	226,000	+6,000	+106,000
LLNL Excess Facilities D&D.....	65,000	---	35,000	-30,000	+35,000
Total, NNSA Sites and Nevada Off-sites.....	365,416	202,361	343,361	-22,055	+141,000
Oak Ridge Reservation:					
OR Nuclear Facility D&D.....	213,000	109,077	254,132	+41,132	+145,055
U233 Disposition Program.....	55,000	45,000	55,000	---	+10,000
OR Cleanup and disposition.....	101,100	58,000	112,471	+11,371	+54,471
Construction:					
14-D-403 Outfall 200 Mercury Treatment Facility.	70,000	20,500	20,500	-49,500	---

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
17-D-401 On-site Waste Disposal Facility.....	---	22,380	22,380	+22,380	---
Subtotal, Construction.....	70,000	42,880	42,880	-27,120	---
OR Community & Regulatory Support.....	5,900	4,930	5,900	---	+970
OR Technology Development and Deployment.....	5,000	3,000	5,000	---	+2,000
Total, Oak Ridge Reservation.....	450,000	262,887	475,383	+25,383	+212,496
Savannah River Site:					
SR Site Risk Management Operations:					
SR Site Risk Management Operations.....	506,366	455,122	500,000	-6,366	+44,878
Construction:					
18-D-402 Emergency Operations Center Replacement, SR.....	6,792	---	6,500	-292	+6,500
Total, SR Site Risk Management Operations.....	513,158	455,122	506,500	-6,658	+51,378
SR Community and Regulatory Support.....	11,249	4,989	11,549	+300	+6,560
SR Radioactive Liquid Tank Waste Stabilization and Disposition.....	820,106	970,332	910,832	+90,726	-59,500
Construction:					
05-D-405 Salt Waste Processing Facility, SRS....	21,200	---	---	-21,200	---
17-D-402 Saltstone Disposal Unit #7, SRS.....	40,034	10,716	10,716	-29,318	---
18-D-402 Saltstone Disposal unit #8/9.....	20,000	65,500	65,500	+45,500	---
19-D-701 SR Security System Replacement.....	4,525	---	1,000	-3,525	+1,000
20-D-401 Saltstone Disposal Unit #10, 11, 12....	500	---	562	+62	+562

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
20-D-402 Advanced Manufacturing Collaborative Facility (AMC).....	25,000	25,000	25,000	---	---
Subtotal, Construction.....	111,259	101,216	102,778	-8,481	+1,562
Total, Savannah River Site.....	1,455,772	1,531,659	1,531,659	+75,887	---
Waste Isolation Pilot Plant:					
Waste Isolation Pilot Plant.....	294,353	323,260	313,260	+18,907	-10,000
Construction:					
15-D-411 Safety Significant Confinement Ventilation System, WIPP.....	58,054	---	35,000	-23,054	+35,000
15-D-412 Exhaust Shaft, WIPP.....	44,500	50,000	55,000	+10,500	+5,000
21-D-401 Hoisting Capability Project.....	---	10,000	10,000	+10,000	---
Total, Waste Isolation Pilot Plant.....	396,907	383,260	413,260	+16,353	+30,000
Program Direction.....	281,119	275,285	289,000	+7,881	+13,715
Program Support.....	12,979	12,979	12,979	---	---
Safeguards and Security.....	313,097	320,771	320,771	+7,674	---
Technology Development.....	25,000	25,000	30,000	+5,000	+5,000
Use of Prior-Year Balances.....	-11,800	---	---	+11,800	---
Subtotal, Defense Environmental Cleanup.....	6,255,000	5,092,608	6,426,000	+171,000	+1,333,392

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Rescission.....	---	-109,000	---	---	+109,000
TOTAL, DEFENSE ENVIRONMENTAL CLEANUP.....	6,255,000	4,983,608	6,426,000	+171,000	+1,442,392
OTHER DEFENSE ACTIVITIES					
Environment, Health, Safety and Security:					
Environment, Health, Safety and Security.....	136,839	134,320	134,320	-2,519	---
Program Direction - Environment, Health, Safety and Security.....	71,000	75,368	72,000	+1,000	-3,368
Subtotal, Environment, Health, safety and security	207,839	209,688	206,320	-1,519	-3,368
Enterprise Assessments:					
Enterprise Assessments.....	24,068	26,949	24,435	+367	-2,514
Program Direction.....	54,711	54,635	54,635	-76	---
Subtotal, Enterprise Assessments.....	78,779	81,584	79,070	+291	-2,514
Specialized security activities.....	273,409	258,411	283,500	+10,091	+25,089
Office of Legacy Management:					
Legacy Management Activities - Defense.....	142,767	293,873	142,797	+30	-151,076
Program Direction - Legacy Management.....	19,262	23,120	20,262	+1,000	-2,858
Subtotal, Office of Legacy Management.....	162,029	316,993	163,059	+1,030	-153,934

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Defense Related Administrative Support.....	179,092	183,789	183,789	+4,697	---
Office of Hearings and Appeals.....	4,852	4,262	4,262	-590	---
TOTAL, OTHER DEFENSE ACTIVITIES.....	906,000	1,054,727	920,000	+14,000	-134,727
TOTAL, ATOMIC ENERGY DEFENSE ACTIVITIES.....	23,865,592	25,809,335	27,078,200	+3,212,608	+1,268,865
POWER MARKETING ADMINISTRATIONS (1)					
SOUTHEASTERN POWER ADMINISTRATION					
Operation and Maintenance					
Purchase Power and Wheeling.....	70,704	85,401	66,163	-4,541	-19,238
Program Direction.....	6,597	11,246	11,246	+4,649	---
Subtotal, Operation and Maintenance.....	77,301	96,647	77,409	+108	-19,238
Less Alternative Financing (for PPW).....	-14,704	-14,163	-14,163	+541	---
Less Alternative Financing (for PD).....	---	-4,000	-4,000	-4,000	---
Offsetting Collections (for PPW).....	-56,000	-71,238	-52,000	+4,000	+19,238
Offsetting Collections (for PD).....	-6,597	-7,246	-7,246	-649	---
TOTAL, SOUTHEASTERN POWER ADMINISTRATION.....	---	---	---	---	---

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
SOUTHWESTERN POWER ADMINISTRATION					
Operation And Maintenance					
Operation And Maintenance	13,639	13,292	13,292	-347	---
Purchase Power And Wheeling	68,000	95,000	54,000	-14,000	-41,000
Program Direction	35,157	35,635	35,635	+478	---
Construction	15,067	13,267	13,267	-1,800	---
Subtotal, Operation and Maintenance	131,863	157,194	116,194	-15,669	-41,000
Less Alternative Financing (for O&M)	-6,018	-5,635	-5,635	+383	---
Less Alternative Financing (for PPW)	-25,000	-25,000	-20,000	+5,000	+5,000
Less Alternative Financing (for Construction)	-10,070	-8,167	-8,187	+1,903	---
Less Alternative Financing (for PD)	---	-852	-852	-852	---
Offsetting Collections (for PD)	-31,467	-31,483	-31,483	-16	---
Offsetting Collections (for O&M)	-5,908	-5,657	-5,657	+251	---
Offsetting Collections (for PPW)	-43,000	-70,000	-34,000	+9,000	+36,000
TOTAL, SOUTHWESTERN POWER ADMINISTRATION	10,400	10,400	10,400	---	---
WESTERN AREA POWER ADMINISTRATION					
Operation and Maintenance:					
Construction And Rehabilitation	45,887	26,251	26,251	-19,636	---
Operation And Maintenance	72,176	77,874	77,874	+5,698	---
Purchase Power And Wheeling	515,769	520,933	485,890	-29,879	-35,043

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(Amounts in thousands)

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Program Direction.....	250,091	253,575	253,575	+3,484	---
Subtotal, Operation and Maintenance.....	883,923	878,633	843,590	-40,333	-35,043
Less Alternative Financing (for O&M).....	-6,600	-6,297	-6,297	+303	---
Less Alternative Financing (for Construction).....	-39,922	-20,353	-20,353	+19,569	---
Less Alternative Financing (for PD).....	-44,719	-48,546	-48,546	-3,827	---
Less Alternative Financing (for PPW).....	-288,769	-293,890	-293,890	-5,121	---
Offsetting Collections (for PD).....	-149,142	-145,010	-145,010	+4,132	---
Offsetting Collections (for O&M).....	-24,445	-24,744	-24,744	-299	---
Purchase Power & Wheeling Financed from Offsetting (P.L. 108-447/109-103).....	-227,000	-227,043	-192,000	+35,000	+35,043
Offsetting Collections - Colorado River Dam (P.L. 98-381).....	-8,954	-8,378	-8,378	+576	---
Use of Prior-Year Balances.....	-5,000	-15,000	-15,000	-10,000	---
Rescission of Prior-Year Balances.....	-176	---	---	+176	---
TOTAL, WESTERN AREA POWER ADMINISTRATION.....	89,196	89,372	89,372	+176	---

FALCON AND AMISTAD OPERATING AND MAINTENANCE FUND

Falcon And Amistad Operation And Maintenance.....	5,647	7,302	7,302	+1,655	---
Offsetting Collections - Falcon and Amistad Fund....	-2,932	-5,548	-5,548	-2,616	---
Less Alternative Financing - Falcon and Amistad Fund	-1,187	-1,526	-1,526	-339	---

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(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Use of Prior-Year Balances.....	-1,300	---	---	+1,300	---
TOTAL, FALCON AND AMISTAD O&M FUND.....	228	228	228	---	---
TOTAL, POWER MARKETING ADMINISTRATIONS.....	99,824	100,000	100,000	+176	---
FEDERAL ENERGY REGULATORY COMMISSION					
Federal Energy Regulatory Commission.....	382,000	404,350	404,350	+22,350	---
FERC Revenues.....	-382,000	-404,350	-404,350	-22,350	---
Total, FEDERAL ENERGY REGULATORY COMMISSION...	---	---	---	---	---

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
General Provisions					
Energy Programs Rescission.....	-12,723	---	---	+12,723	---
Colorado River Basin Fund (305(b)).....	---	---	2,000	+2,000	+2,000
Sale of Petroleum Product.....	---	-807,000	---	---	+607,000
Total, General Provisions.....	-12,723	-807,000	2,000	+14,723	+609,000
=====					
GRAND TOTAL, DEPARTMENT OF ENERGY.....	38,586,316	35,122,089	39,625,025	+1,038,709	+4,502,956
(Total amount appropriated).....	(38,657,215)	(35,956,228)	(41,927,265)	(+3,270,050)	(+5,971,037)
(Rescissions).....	(-70,899)	(-834,159)	(-2,240)	(+68,659)	(+831,919)
=====					

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
SUMMARY OF ACCOUNTS					
Energy Efficiency and Renewable Energy.....	2,790,000	719,563	2,861,760	+71,760	+2,142,197
Cybersecurity, Energy Security, and Emergency Response	156,000	184,621	156,000	---	-28,621
Electricity.....	190,000	195,045	211,720	+21,720	+16,675
Nuclear Energy.....	1,493,408	1,179,931	1,507,600	+14,192	+327,669
Uranium Reserve Program.....	---	150,000	---	---	-150,000
Fossil Energy Research and Development.....	750,000	730,601	750,000	---	+19,399
Naval Petroleum & Oil Shale Reserves.....	14,000	13,006	13,006	-994	---
Strategic Petroleum Reserve.....	195,000	187,081	188,000	-7,000	+919
SPR Petroleum Account.....	10,000	-68,000	1,000	-9,000	+69,000
Northeast Home Heating Oil Reserve.....	10,000	-84,000	6,500	-3,500	+90,500
Energy Information Administration.....	126,800	128,710	126,800	---	-1,910
Non-Defense Environmental Cleanup.....	319,200	275,820	319,200	---	+43,380
Uranium Enrichment D&D Fund.....	881,000	806,244	841,000	-40,000	+34,756
Science.....	7,000,000	5,837,806	7,026,000	+26,000	+1,188,194
Nuclear Waste Disposal.....	---	27,500	27,500	+27,500	---
Advanced Research Projects Agency-Energy.....	425,000	-310,744	427,000	+2,000	+737,744
Title 17 Innovative technology loan guarantee program.	29,000	-384,659	-363,000	-392,000	+21,659
Advanced Technology Vehicles Manufacturing Loan Program.....	5,000	---	-1,903,000	-1,908,000	-1,903,000
Tribal Energy Loan Guarantee program.....	2,000	-8,500	2,000	---	+10,500
Office of Indian Energy Policy and Programs.....	22,000	8,005	22,000	---	+13,995
Departmental administration.....	161,000	136,094	166,000	+5,000	+29,906
Artificial Intelligence and Technology Office.....	---	4,912	---	---	-4,912
International Affairs.....	---	32,959	---	---	-32,959
Office of the Inspector General.....	54,215	57,739	57,739	+3,524	---
Atomic energy defense activities:					

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
National Nuclear Security Administration:					
Weapons activities.....	12,457,097	15,602,000	15,345,000	+2,887,903	-257,000
Defense nuclear nonproliferation.....	2,164,400	2,031,000	2,260,000	+95,600	+229,000
Naval reactors.....	1,648,396	1,684,000	1,684,000	+35,604	---
Federal Salaries and Expenses.....	434,699	454,000	443,200	+8,501	-10,800
Subtotal, National Nuclear Security Admin.....	16,704,592	19,771,000	19,732,200	+3,027,608	-38,800
Defense Environmental Cleanup.....	6,255,000	4,983,608	6,426,000	+171,000	+1,442,392
Other Defense Activities.....	906,000	1,054,727	920,000	+14,000	-134,727
Total, Atomic Energy Defense Activities.....	23,865,592	25,809,335	27,078,200	+3,212,608	+1,268,865
Power Marketing Administrations (1):					
Southwestern Power Administration.....	10,400	10,400	10,400	---	---
Western Area Power Administration.....	89,196	89,372	89,372	+176	---
Falcon and Amistad Operating and Maintenance Fund...	228	228	228	---	---
Total, Power Marketing Administrations.....	99,824	100,000	100,000	+176	---
Federal Energy Regulatory Commission:					
Salaries and Expenses.....	382,000	404,350	404,350	+22,350	---
Revenues.....	-382,000	-404,350	-404,350	-22,350	---

DEPARTMENT OF ENERGY

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

General Provision:					
Energy Programs Rescission.....	-12,723	---	---	+12,723	---
Sale of Petroleum Product.....	---	-607,000	---	---	+607,000
Colorado River Basin Fund (305(b)).....	---	---	2,000	+2,000	+2,000

Subtotal, General Provisions.....	-12,723	-607,000	2,000	+14,723	+609,000
=====					
Total Summary of Accounts, Department of Energy...	38,586,316	35,122,069	39,625,025	+1,038,709	+4,502,956
=====					

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

TITLE IV—INDEPENDENT AGENCIES

APPALACHIAN REGIONAL COMMISSION

The agreement provides \$180,000,000 for the Appalachian Regional Commission (ARC). The following is the only direction for the Appalachian Regional Commission.

The agreement includes the budget request proposal to address the substance abuse crisis that disproportionately affects Appalachia.

Within available funds, not less than \$15,000,000 is for counties within the Northern Appalachian region to support economic development, manufacturing, and entrepreneurship.

Within available funds, \$55,000,000 is for the POWER+ Plan.

Within available funds \$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. The agreement provides \$5,000,000 for a program of high-speed broadband deployment in economically distressed counties within the North Central and Northern Appalachian regions.

Within available funds, not less than \$16,000,000 is for a program of industrial site and workforce development in Southern and South Central Appalachia, focused primarily on the automotive supplier sector and the aviation sector. Up to \$13,500,000 of that amount is for activities in Southern Appalachia. The funds shall be distributed to states that have distressed counties in Southern and South Central Appalachia using the ARC Area Development Formula.

Within available funds, \$16,000,000 is for a program of basic infrastructure improvements in distressed counties in Central Appalachia. Funds shall be distributed according to ARC's distressed counties formula and shall be in addition to the regular allocation to distressed counties.

The agreement reiterates House direction regarding a formal report on funding directed to persistent poverty counties and high poverty areas.

DEFENSE NUCLEAR FACILITIES SAFETY BOARD SALARIES AND EXPENSES

The agreement provides \$31,000,000 for the Defense Nuclear Facilities Safety Board. The Board is directed to ensure a minimum of 110 full-time equivalents are on board or report to the Committees on Appropriations of both Houses of Congress why it was unable to do so. The agreement reiterates House direction regarding a Memorandum of Understanding between the Board and the Department of Energy.

DELTA REGIONAL AUTHORITY
SALARIES AND EXPENSES

The agreement provides \$30,000,000 for the Delta Regional Authority.

Within available funds, the agreement includes not less than \$15,000,000 for flood control, basic public infrastructure development and transportation improvements, which shall be allocated separate from the state formula funding method.

The agreement reiterates House direction regarding a formal report on funding directed to persistent poverty counties and high poverty areas.

The agreement does not include a statutory waiver with regard to DRA's priority of funding, and directs DRA to focus on activities relating to basic public infrastructure and transportation infrastructure before allocating funding toward other priority areas.

DENALI COMMISSION

The agreement provides \$15,000,000 for the Denali Commission.

The agreement reiterates House direction regarding a formal report on funding directed to persistent poverty counties and high poverty areas.

NORTHERN BORDER REGIONAL COMMISSION

The agreement provides \$30,000,000 for the Northern Border Regional Commission.

Within available funds, not less than \$4,000,000 is for initiatives that seek to address the decline in forest-based economies throughout the region, \$1,000,000 is for the State Capacity Building Grant Program, and \$5,000,000 is for broadband initiatives. The agreement reiterates House direction regarding a formal report on funding directed to persistent poverty counties and high poverty areas.

SOUTHEAST CRESCENT REGIONAL COMMISSION

For expenses necessary for the Southeast Crescent Regional Commission in carrying out activities authorized by subtitle V of title 40, United States Code, \$1,000,000 to remain available until expended.

SOUTHWEST BORDER REGIONAL COMMISSION

For expenses necessary for the Southwest Border Regional Commission in carrying out activities authorized by subtitle V of title 40, United States Code, \$250,000 to remain available until expended. The Administration is encouraged to promptly appoint a Federal Co-Chair in order to establish key partnerships

with local communities, improve economic conditions and travel along the southwest border, and to consider opportunities to establish a regional presence in or near major inland ports of entry.

NUCLEAR REGULATORY COMMISSION
SALARIES AND EXPENSES

The agreement provides \$830,900,000 for the Nuclear Regulatory Commission. This amount is offset by estimated revenues of \$710,293,000, resulting in a net appropriation of \$120,607,000.

Unobligated Balances from Prior Appropriations and Reprogramming Guidelines.—The Commission carries unobligated balances from appropriations received in prior years. The agreement requires the use of \$35,000,000 of these balances, derived from fee-based activities. The Commission is directed 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. Because the Commission has already collected fees corresponding to these activities in prior years, the agreement does not include these funds within the fee base calculation for determining authorized revenues and does not provide authority to collect additional offsetting receipts for their use. Any remaining unobligated balances carried forward from prior years are subject to the reprogramming guidelines in section 402 of this Act and shall be used only to supplement appropriations consistent with those guidelines.

Integrated University Program.—The Commission is directed to use \$16,000,000 of prior-year, unobligated balances for the Integrated University Program, of which, \$5,500,000 shall be 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. Because the Commission has already collected fees corresponding to these activities in previous years, the agreement does not include these funds within the fee base calculation for determining authorized revenues and does not provide authority to collect additional offsetting receipts for their use.

Accident Tolerant Fuels Program.—The agreement directs the Commission to submit 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 preparedness for accident tolerant fuel licensing with a focus on what steps are being taken to ensure that licensing activities, including higher burnup and enrichment, support projected deployment schedules.

Digital Technologies.—The agreement directs the Commission to provide to the Committees on Appropriations of both Houses of Congress not later than 30 days after the enactment of this Act a briefing on the progress of its efforts to enable safe and efficient design options that allow licensees to deploy digital technologies.

Commission Workforce.—Not later than 30 days after the enactment of this Act, the Commission shall provide to the Committees on Appropriations of both Houses of Congress a briefing on its efforts to maintain its workforce, including recruiting, hiring, and training scientists and engineers to meet its mission today and in the future.

Inspectors.—The agreement encourages the Commission to use its existing regulatory authority to assign resident inspectors at nuclear power plants while the plant is in the fuel handling and transfer phases of decommissioning.

(Dollars in thousands)

Account	Final Bill
Nuclear Reactor Safety.....	\$452,849
Integrated University Program.....	16,000
Nuclear Materials and Waste Safety.....	102,864
Decommissioning and Low-Level Waste.....	22,771
Corporate Support.....	271,416
Use of Prior-Year Balances.....	-35,000
TOTAL, Nuclear Regulatory Commission.....	830,900

OFFICE OF INSPECTOR GENERAL

The agreement provides \$13,499,000 for the Office of Inspector General in the Nuclear Regulatory Commission. This amount is offset by revenues of \$11,106,000, resulting in a net appropriation of \$2,393,000.

The agreement provides \$1,206,000 to provide inspector general services for the Defense Nuclear Facilities Safety Board.

NUCLEAR WASTE TECHNICAL REVIEW BOARD
SALARIES AND EXPENSES

The agreement provides \$3,600,000 for the Nuclear Waste Technical Review Board.

GENERAL PROVISIONS—INDEPENDENT AGENCIES

The agreement includes a provision instructing the Nuclear Regulatory Commission on responding to congressional requests for information.

The agreement includes a provision relating to reprogramming.

TITLE V—GENERAL PROVISIONS
(INCLUDING TRANSFER OF FUNDS)

The agreement includes a provision relating to lobbying restrictions.

The agreement includes a provision relating to transfer authority. 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. In addition to transfers provided in this Act or other appropriations Acts, and existing authorities, such as the Economy Act (31 U.S.C. 1535), by which one part of the United States Government may provide goods or services to another part, this Act allows transfers using section 4705 of the Atomic Energy Defense Act (50 U.S.C. 2745) and 15 U.S.C. 638 regarding SBIR/STTR.

The agreement includes a provision prohibiting funds to be used in contravention of the executive order entitled “Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations.”

The agreement includes a provision prohibiting the use of funds to establish or maintain a computer network unless such network blocks the viewing, downloading, and exchanging of pornography, except for law enforcement investigation, prosecution, or adjudication activities.

The agreement includes a provision to waive requirements related to non-federal cost-share grants and cooperative agreements for the Delta Regional Authority, the Northern Border Regional Commission, and the Denali Commission.

[INSERT TABLE]

ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE I - DEPARTMENT OF DEFENSE - CIVIL					
DEPARTMENT OF THE ARMY					
Corps of Engineers - Civil					
Investigations.....	151,000	102,635	153,000	+2,000	+50,365
Construction.....	2,681,000	2,173,189	2,692,645	+11,645	+519,456
Mississippi River and Tributaries.....	375,000	209,863	380,000	+5,000	+170,137
Operation and Maintenance.....	3,790,000	1,996,499	3,849,655	+59,655	+1,853,156
Regulatory Program.....	210,000	200,000	210,000	---	+10,000
Formerly Utilized Sites Remedial Action Program (FUSRAP).....	200,000	---	250,000	+50,000	+250,000
Flood Control and Coastal Emergencies.....	35,000	77,000	35,000	---	-42,000
Expenses.....	203,000	187,000	206,000	+3,000	+19,000
Office of Assistant Secretary of the Army (Civil Works).....	5,000	5,000	5,000	---	---
Rescission.....	---	---	-500	-500	-500
Water Infrastructure Finance and Innovation Program Account.....	---	---	14,200	+14,200	+14,200
Harbor Maintenance Trust Fund.....	---	1,015,000	---	---	-1,015,000
	=====	=====	=====	=====	=====
Total, title I, Department of Defense - Civil...	7,650,000	5,966,186	7,795,000	+145,000	+1,828,814
	=====	=====	=====	=====	=====

ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE II - DEPARTMENT OF THE INTERIOR					
Central Utah Project					
Central Utah Project Completion Account.....	20,000	10,000	21,000	+1,000	+11,000
Bureau of Reclamation					
Water and Related Resources.....	1,512,151	979,000	1,521,125	+8,974	+542,125
Central Valley Project Restoration Fund.....	54,849	55,875	55,875	+1,026	---
California Bay-Delta Restoration.....	33,000	33,000	33,000	---	---
Policy and Administration.....	60,000	60,000	60,000	---	---
	-----	-----	-----	-----	-----
Total, Bureau of Reclamation.....	1,660,000	1,127,875	1,670,000	+10,000	+542,125
	=====	=====	=====	=====	=====
Total, title II, Department of the Interior.....	1,680,000	1,137,875	1,691,000	+11,000	+553,125
	=====	=====	=====	=====	=====

ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE III - DEPARTMENT OF ENERGY					
Energy Programs					
Energy Efficiency and Renewable Energy.....	2,848,000	719,563	2,864,000	+16,000	+2,144,437
Rescission.....	-58,000	---	-2,240	+55,760	-2,240
Subtotal.....	2,790,000	719,563	2,861,760	+71,760	+2,142,197
Cybersecurity, Energy Security, and Emergency Response Electricity.....	156,000 190,000	184,621 195,045	156,000 211,720	--- +21,720	-28,621 +16,675
Nuclear Energy.....	1,340,000	1,042,131	1,357,800	+17,800	+315,669
Defense function.....	153,408	137,800	149,800	-3,608	+12,000
Subtotal.....	1,493,408	1,179,931	1,507,600	+14,192	+327,669
Uranium Reserve Program.....	---	150,000	---	---	-150,000
Fossil Energy Research and Development.....	750,000	730,601	750,000	---	+19,399
Naval Petroleum and Oil Shale Reserves.....	14,000	13,006	13,006	-994	---
Sale from Strategic Petroleum Reserves.....	---	-242,000	---	---	+242,000
Use of Sale of Petroleum Product.....	---	242,000	---	---	-242,000
Strategic Petroleum Reserve.....	195,000	187,081	188,000	-7,000	+919
Sale of crude oil.....	-450,000	---	---	+450,000	---
Use of sale proceeds.....	450,000	---	---	-450,000	---
Subtotal.....	195,000	187,081	188,000	-7,000	+919

ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
SPR Petroleum Account.....	10,000	---	1,000	-9,000	+1,000
Sale from Strategic Petroleum Reserve	---	-87,000	---	---	+87,000
Use of sale proceeds.....	---	19,000	---	---	-19,000
Subtotal.....	10,000	-68,000	1,000	-9,000	+69,000
Northeast Home Heating Oil Reserve.....	10,000	---	6,500	-3,500	+6,500
Sale of Home Heating Oil Reserve.....	---	-84,000	---	---	+84,000
Subtotal.....	10,000	-84,000	6,500	-3,500	+90,500
Energy Information Administration.....	126,800	128,710	126,800	---	-1,910
Non-defense Environmental Cleanup.....	319,200	275,820	319,200	---	+43,380
Mercury receipts.....	---	-3,000	-3,000	-3,000	---
Use of Mercury receipts.....	---	3,000	3,000	+3,000	---
Subtotal.....	319,200	275,820	319,200	---	+43,380
Uranium Enrichment Decontamination and Decommissioning Fund.....	881,000	806,244	841,000	-40,000	+34,756
Science.....	7,000,000	5,837,806	4,726,000	-2,274,000	-1,111,806
Emergency funding.....	---	---	2,300,000	+2,300,000	+2,300,000
Subtotal.....	7,000,000	5,837,806	7,026,000	+26,000	+1,188,194

ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Nuclear Waste Disposal.....	---	27,500	27,500	+27,500	---
Advanced Research Projects Agency-Energy.....	425,000	21,256	427,000	+2,000	+405,744
Rescission.....	---	-332,000	---	---	+332,000
Subtotal.....	425,000	-310,744	427,000	+2,000	+737,744
Title 17 Innovative Technology Loan Guarantee Program.....	32,000	3,000	32,000	---	+29,000
Offsetting collection.....	-3,000	-3,000	-3,000	---	---
Rescission.....	---	-160,659	---	---	+160,659
Rescission of emergency funding.....	---	---	-392,000	-392,000	-392,000
Cancellation of Commitment Authority.....	---	-224,000	---	---	+224,000
Subtotal.....	29,000	-384,659	-363,000	-392,000	+21,659
Advanced Technology Vehicles Manufacturing Loan Program.....	5,000	---	5,000	---	+5,000
Rescission of emergency funding.....	---	---	-1,908,000	-1,908,000	-1,908,000
Subtotal.....	5,000	---	-1,903,000	-1,908,000	-1,903,000
Tribal Energy Loan Guarantee Program.....	2,000	---	2,000	---	+2,000
Rescission.....	---	-8,500	---	---	+8,500
Subtotal.....	2,000	-8,500	2,000	---	+10,500
Office of Indian Energy Policy and Programs.....	22,000	8,005	22,000	---	+13,995

ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Departmental Administration.....	254,378	229,472	259,378	+5,000	+29,906
Miscellaneous revenues.....	-93,378	-93,378	-93,378	---	---
Net appropriation.....	161,000	136,094	166,000	+5,000	+29,906
Artificial Intelligence and Technology Office.....	---	4,912	---	---	-4,912
International Affairs.....	---	32,959	---	---	-32,959
Office of the Inspector General.....	54,215	57,739	57,739	+3,524	---
Total, Energy programs.....	14,633,623	9,819,734	12,444,825	-2,188,798	+2,625,091

ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Atomic Energy Defense Activities					
National Nuclear Security Administration					
Weapons Activities.....	12,457,097	15,602,000	15,345,000	+2,887,903	-257,000
Defense Nuclear Nonproliferation.....	2,164,400	2,031,000	2,260,000	+95,600	+229,000
Naval Reactors.....	1,648,396	1,684,000	1,684,000	+35,604	---
Federal Salaries and Expenses.....	434,699	454,000	443,200	+8,501	-10,800
Total, National Nuclear Security Administration.	16,704,592	19,771,000	19,732,200	+3,027,608	-38,800
Environmental and Other Defense Activities					
Defense Environmental Cleanup.....	6,255,000	5,092,608	6,426,000	+171,000	+1,333,392
Rescission.....	---	-109,000	---	---	+109,000
Subtotal.....	6,255,000	4,983,608	6,426,000	+171,000	+1,442,392
Other Defense Activities.....	906,000	1,054,727	920,000	+14,000	-134,727
Total, Environmental and Other Defense Activities.	7,161,000	6,038,335	7,346,000	+185,000	+1,307,665
Total, Atomic Energy Defense Activities.....	23,865,592	25,809,335	27,078,200	+3,212,608	+1,268,865

ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill Final Bill	Final Bill vs Enacted	Final Bill vs Request
Power Marketing Administrations /1					
Operation and maintenance, Southeastern Power					
Administration.....	6,597	7,246	7,246	+649	---
Offsetting collections.....	-6,597	-7,246	-7,246	-649	---
Subtotal.....	---	---	---	---	---
Operation and maintenance, Southwestern Power					
Administration.....	47,775	47,540	47,540	-235	---
Offsetting collections.....	-37,375	-37,140	-37,140	+235	---
Subtotal.....	10,400	10,400	10,400	---	---
Construction, Rehabilitation, Operation and Maintenance, Western Area Power Administration.....					
Administration.....	262,959	259,126	259,126	-3,833	---
Offsetting collections.....	-173,587	-169,754	-169,754	+3,833	---
Rescission.....	-176	---	---	+176	---
Subtotal.....	89,196	89,372	89,372	+176	---
Falcon and Amistad Operating and Maintenance Fund.....					
Administration.....	3,160	5,776	5,776	+2,616	---
Offsetting collections.....	-2,932	-5,548	-5,548	-2,616	---
Subtotal.....	228	228	228	---	---
Total, Power Marketing Administrations.....	99,824	100,000	100,000	+176	---

ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Federal Energy Regulatory Commission					
Salaries and expenses.....	382,000	404,350	404,350	+22,350	---
Revenues applied.....	-382,000	-404,350	-404,350	-22,350	---
Subtotal.....	---	---	---	---	---
General Provision - Department of Energy					
Energy Programs Rescission (rescission).....	-12,723	---	---	+12,723	---
Colorado River Basin Fund (sec.305(b)).....	---	---	2,000	+2,000	+2,000
Sale of Petroleum Product.....	---	-607,000	---	---	+607,000
Total, General Provisions.....	-12,723	-607,000	2,000	+14,723	+609,000
=====					
Total, title III, Department of Energy.....	38,586,316	35,122,069	39,625,025	+1,038,709	+4,502,956
Appropriations.....	(38,657,215)	(35,732,228)	(39,627,265)	(+970,050)	(+3,895,037)
Rescissions.....	(-70,899)	(-610,159)	(-2,240)	(+68,659)	(+607,919)
=====					
TITLE IV - INDEPENDENT AGENCIES					
Appalachian Regional Commission.....	175,000	165,000	180,000	+5,000	+15,000
Defense Nuclear Facilities Safety Board.....	31,000	28,836	31,000	---	+2,164
Delta Regional Authority.....	30,000	2,500	30,000	---	+27,500
Denali Commission.....	15,000	7,300	15,000	---	+7,700
Northern Border Regional Commission.....	25,000	850	30,000	+5,000	+29,150

ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

Southeast Crescent Regional Commission.....	250	---	1,000	+750	+1,000
Southwest Border Regional Commission.....	---	---	250	+250	+250
Nuclear Regulatory Commission:					
Salaries and expenses.....	842,236	849,900	830,900	-11,336	-19,000
Revenues.....	-717,125	-729,293	-710,293	+6,832	+19,000

Subtotal.....	125,111	120,607	120,607	-4,504	---

Office of Inspector General.....	13,314	13,499	13,499	+185	---
Revenues.....	-10,929	-11,106	-11,106	-177	---

Subtotal.....	2,385	2,393	2,393	+8	---

Total, Nuclear Regulatory Commission.....	127,496	123,000	123,000	-4,496	---
Nuclear Waste Technical Review Board.....	3,600	3,600	3,600	---	---
Legislative Proposal.....	---	2,000	---	---	-2,000

Subtotal.....	3,600	5,600	3,600	---	-2,000
=====					
Total, title IV, Independent agencies.....	407,346	333,086	413,850	+6,504	+80,764
=====					

ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Grand total.....	48,323,662	42,559,216	49,524,875	+1,201,213	+6,965,659
Appropriations.....	(48,394,561)	(43,169,375)	(49,527,615)	(+1,133,054)	(+6,358,240)
Emergency appropriations.....	---	---	(2,300,000)	(+2,300,000)	(+2,300,000)
Rescissions.....	(-70,899)	(-610,159)	(-2,740)	(+68,159)	(+607,419)
Rescissions of emergency appropriations.....	---	---	(-2,300,000)	(-2,300,000)	(-2,300,000)
Grand total less emergencies.....	48,323,662	42,559,216	49,524,875	+1,201,213	+6,965,659

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

ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
DISCRETIONARY RECAP BY TITLE					
Title I, Department of Defense - Civil.....	7,650,000	5,966,186	7,795,000	+145,000	+1,828,814
Title II, Department of the Interior.....	1,680,000	1,137,875	1,691,000	+11,000	+553,125
Title III, Department of Energy.....	38,586,316	35,122,069	39,625,025	+1,038,709	+4,502,956
Title IV, Independent Agencies.....	407,346	333,086	413,850	+6,504	+80,764
Subtotal.....	48,323,662	42,559,216	49,524,875	+1,201,213	+6,965,659
Scorekeeping adjustments.....	19,338	17,125	-72,875	-92,213	-90,000
Total.....	48,343,000	42,576,341	49,452,000	+1,109,000	+6,875,659