

American Recovery and Reinvestment Act of 2009
Army Corps of Engineers - Civil Works Expenditure Plan
Operations and Maintenance

| Primary State | Project Name | Corps District | Purpose of Additional PY Capability | Amount (thousands) |
|---------------|------------------------------------|----------------|--|--------------------|
| GA | ATLANTIC INTRACOASTAL WATERWAY, GA | Savannah | Dredge additional 1,700 KCY material from critically shoaled areas to improve the ability to move energy related commodities and reduce the risk to commercial and recreational navigational users. | 5,900 |
| GA | BRUNSWICK HARBOR, GA | Savannah | Dredge 1,500 KCY of material from Entrance Channel to return the channel to authorized width and depth. This work will reduce the risk to commercial and public users navigating the project and eliminate light loading by commercial shipping, reducing shipping costs of commercial products | 6,000 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Monitoring of spawning of Shortnose sturgeon (endangered species) in the Savannah River. Identify if spawning is successful and the flow and site conditions. Data would be used to assess conditions under which flow discharges could be reduced to conserve water during the ongoing drought. | 30 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Construct restroom building at Poplar Springs Recreation Area. The lack of a sufficient restroom facility near the ramp creates an unsanitary situation that has a negative environmental impact and requires undue maintenance cleanup by project personnel | 40 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Perform shoreline stabilization work to replace failing structures and protect vital infrastructure (CPAF, FY09). Continued erosion of the Hartwell shoreline threatens vital recreation infrastructure such as roadways, campsites/picnic sites, restroom facilities, etc. This package reduces the risk of failure of recreation facilities | 350 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Cultural Resources Protection of the Tugaloo and Chauga Mounds to include subsurface radar investigations to further delineate the sites in order to implement improved site protection measures in order to prevent degradation of these historic sites. | 281 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Electrical service, water and sewer work at Hart Group Camp. Work is intended to create 6-8 campsites to host long term volunteer personnel in an effort to increase the Hartwell project's volunteer program. | 100 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Hire 6 summer temporary ranger personnel to provide adequate staffing during the recreation season. Ranger personnel are necessary to implement the project's water safety program, provide adequate visitor assistance patrols of project lands and waters and provide adequate recreation/natural resources program service levels at the Hartwell project | 300 |

| | | | | |
|----|------------------------|----------|--|-------|
| GA | HARTWELL LAKE, GA & SC | Savannah | This package increases O&M contract requirements and employees to provide additional repair and maintenance services of recreation facilities. Additional mowing and cleaning crews will be added to increase services to minimum Corps standards. | 350 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Rehab existing campsites/picnic sites and restroom access within selected recreation areas to meet accessibility requirements and bring sites up to current Corps standards. | 300 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Rehab existing campsites/picnic sites and restroom access within selected recreation areas to meet accessibility requirements and to bring sites up to current Corps standards. Activities will include increasing the size of RV and impact pads, adding amenities such as fire rings, lantern hangers and picnic tables where they do not currently exist or where existing amenities are worn out, addressing erosion problems and adding or improving barrier free access to facilities for individuals with physical disabilities | 300 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Paint Gantry Crane - This will remove the original lead primer and overcoatings of paint (the crane was originally fabricated and painted in 1960). This will complete the 2007 rehab/upgrade of the gantry crane which is the only crane available to maintain the generators and turbines and eliminate the lead paint hazard for workers and the Savannah River | 2,400 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Repair/Install courtesy docks. Repair of existing and installation of new docks at selected ramp access areas would greatly improve safety for the boating public. | 100 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Install a new accessible fishing dock at Twin Lakes Recreation Area. Installation of the dock would reduce the risk of personal injury by providing an additional safe access facility. | 60 |
| GA | HARTWELL LAKE, GA & SC | Savannah | This package is for the installation and 1-year operation of water quality monitors on the Savannah River. Data would be used to determine conditions under which project flow discharges could be reduced to conserve water during the ongoing drought. | 50 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Contract for paving selected recreation areas to bring them up to acceptable service levels. Existing roadways were resurfaced approximately 25 years ago. | 1,000 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Design and Construct New Station Battery Room. Reduces risks to employees. Adds safety features for ventilation and spill protection. | 450 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Clemson Pumping Station Office Replacement - The current office is a deteriorated trailer that is not secure, is susceptible to wind damage, and is not suitable for housing required electronic office equipment such as computers, faxes, radios and phones. | 100 |

| | | | | |
|----|--------------------------------|----------|--|-------|
| GA | HARTWELL LAKE, GA & SC | Savannah | Clean, Measure and Monitor Water Flow of Foundation Drains in the Hartwell Dam - To reduce uplift forces on the concrete gravity dam by allowing the ground water an escape route downstream. The drains have not been water-blast cleaned of calcium and sludge since 1997. | 50 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Award contract to design and install Motor Control Centers, including all power and control cables back to supply. | 1,541 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Award contract to design and install Station Service Switchgear equipment including all power and control cables connecting back to supply transformers. | 2,400 |
| GA | HARTWELL LAKE, GA & SC | Savannah | Repair/replace sanitary facilities within Campgrounds. Funding would bring facilities up to standards by replacing outdated, inefficient structures with modern facilities. This will reduce maintenance required to keep these older facilites operational. | 1,000 |
| GA | J STROM THURMOND LAKE, GA & SC | Savannah | Monitoring of spawning of Shortnose sturgeon (endangered species) in the Savannah River. Data would be used to assess conditions under which flow discharges could be reduced to conserve water during the ongoing drought | 30 |
| GA | J STROM THURMOND LAKE, GA & SC | Savannah | Conduct delineation of DDT contaminated soil at Lake Springs Airstrip, Best Management Practices on the forest road, and perform invasive species control. The DDT site work will bring the project into compliance with environmental regulations. | 465 |
| GA | J STROM THURMOND LAKE, GA & SC | Savannah | Pave roads in recreation areas, accessibility upgrades, renovate campsites, replace 2 comfort station. Campsite renovations will bring sites up to current Corps facility standards | 3,028 |
| GA | J STROM THURMOND LAKE, GA & SC | Savannah | Hire 7 - summer park rangers, 2 - 1 yr. temporary forestry Technicians, and 1- Administrative Assistant. Ranger personnel are necessary to implement the project's water safety program and to provide adequate visitor assistance patrols of project lands and waters | 400 |
| GA | J STROM THURMOND LAKE, GA & SC | Savannah | Installation and 1-year operation of water quality monitors on the Savannah River. Data would be used to determine conditions under which project flow discharges could be reduced to conserve water during the ongoing drought. | 50 |
| GA | J STROM THURMOND LAKE, GA & SC | Savannah | Phase II remediation of DDT contaminated soil at Lake Springs Airstrip, BMP on forest roads, invasive species control. The DDT site work will bring the project into compliance with environmental regulations. | 270 |
| GA | J STROM THURMOND LAKE, GA & SC | Savannah | Install County water at Lake Springs Day Use & Ridge Road Campground. | 835 |
| GA | J STROM THURMOND LAKE, GA & SC | Savannah | Perform corrosion protection and weld repair on Spillway Gates, which reduces the risk of gate failure. | 4,500 |

| | | | | |
|----|---|----------|---|-------|
| GA | RICHARD B RUSSELL DAM AND LAKE, GA & SC | Savannah | Monitor spawning of Shortnose sturgeon (endangered species) in the Savannah River. Identify if spawning is successful. Data would be used to assess conditions under which flow discharges could be reduced to conserve water during the ongoing drought. | 30 |
| GA | RICHARD B RUSSELL DAM AND LAKE, | Savannah | Headgate Corrosion Repair(Headgates Units 2 and 3). These gates are used to prevent the passage of water through the dam during maintenance (employee safety) and during emergency conditions (downstream safety). The existing headgates are corroded which could impact the structural integrity and increase the risk of catastrophic failure. | 750 |
| GA | RICHARD B RUSSELL DAM AND LAKE, | Savannah | Purchase 11 Gas Circuit Breakers in the Switchyard. These breakers are an environmental hazard if they fail, are obsolete and some spare parts are no longer available. This will increase overall power plant reliability and reduce future maintenance costs. | 1,900 |
| GA | RICHARD B RUSSELL DAM AND LAKE, GA & SC | Savannah | Installation of Generator Breakers Units 1-4. Breakers have been purchased. This package includes the additional equipment needed for installation. The breakers and associated buswork have been onsite for several years awaiting installation. Existing unit breakers are obsolete and failure is imminent | 1,700 |
| GA | RICHARD B RUSSELL DAM AND LAKE, GA & SC | Savannah | Installation and 1-year operation of water quality monitors on the Savannah River. Data would be used to determine conditions under which project flow discharges could be reduced to conserve water during the ongoing drought | 50 |
| GA | RICHARD B RUSSELL DAM AND LAKE, | Savannah | Install High Float Buoy Line System in Tailrace. This high float buoy line system is critical to maintaining pumpback capability during seasonal growth of aquatic pond grass. Mats of pond grass clog pump intakes. Buoy line system will provide a barrier to these floating mats of dead grass, reducing labor needed to keep intake gates clean and reducing the risk of damage to the units due to clogged intakes | 150 |
| GA | RICHARD B RUSSELL DAM AND LAKE, | Savannah | Pave Powerplant Entrance Road. Activity will increase roadway safety within the project and reduce future maintenance costs. | 770 |
| GA | RICHARD B RUSSELL DAM AND LAKE, | Savannah | Hydropower Pumpback Fish Deterent System Repair and Upgrade. Fish deterrent system is critical to pumpback operations. Failure of system will limit ability to pump during times of drought. This will increase overall power plant reliability and reduce future maintenance costs | 350 |
| GA | RICHARD B RUSSELL DAM AND LAKE, | Savannah | Water/Air Piping Corrosion Repair and Paint in Penstock Area. Corrosion in this area must be addressed or the resulting damage will require more extensive and expensive repairs. This work will reduce the required maintenance. | 307 |
| GA | RICHARD B RUSSELL DAM AND LAKE, | Savannah | Penstock Corrosion Repair, Sandblast and Paint - Corrosion in this area must be addressed or the resulting damage will require more extensive and expensive repairs. This work will reduce the required maintenance. | 1,500 |

| | | | | |
|--------------|---------------------------------|----------|--|---------------|
| GA | RICHARD B RUSSELL DAM AND LAKE, | Savannah | Corrosion Protection and Weld Repair on (10) Tainter Gates - Corrosion in this area must be addressed or the resulting damage will require more extensive and expensive repairs. This work will reduce the required maintenance. | 1,200 |
| GA | RICHARD B RUSSELL DAM AND LAKE, | Savannah | Draft Tube Crane Corrosion Repair(Sandblast and Paint) - Corrosion in this area must be addressed or the resulting damage will require more extensive and expensive repairs. This work will reduce the required maintenance. | 1,600 |
| GA | RICHARD B RUSSELL DAM AND LAKE, | Savannah | Install Security Gate and Perimeter Fencing at Powerplant. The new gate and fencing will reduce the risk of trespassing therefore increasing employee safety and facility security. | 250 |
| GA | SAVANNAH HARBOR, GA | Savannah | Dredge 1,200 KCY of additional material from Savannah River Inner Channel and Entrance. This work will reduce the risk to commercial and public users navigation the project and eliminate light loading by commercial shipping, reducing shipping costs of commercial products. | 5,000 |
| GA | SAVANNAH HARBOR, GA | Savannah | Erosion protection along toe of the disposal Area 14b, to prevent further erosion of disposal area river side dike and protect the current level of capacity. | 8,500 |
| GA | SAVANNAH HARBOR, GA | Savannah | Erosion protection along toe of the disposal Area 14a, to prevent further erosion of disposal area river side dike and protect the current level of capacity. | 10,000 |
| GA | SAVANNAH HARBOR, GA | Savannah | Construct a 4 acre bird island to complete remaining environmental mitigation features required by the DMMP. | 1,000 |
| GA | SAVANNAH HARBOR, GA | Savannah | Erosion protection along toe of the disposal Area 13b, to prevent further erosion of riverside dike, protect disposal area capacity and protect existing environmental mitigation. | 7,000 |
| GA | SAVANNAH HARBOR, GA | Savannah | Erosion protection along toe of the disposal Area 13a, to prevent further erosion of riverside dike, protect disposal area capacity and protect existing environmental mitigation. | 4,000 |
| TOTAL | | | | 78,737 |

| | |
|-----------------|------------------|
| Synopsis | |
| 5,900 | AIWW |
| 6,000 | Brunswick Harbor |
| 11,202 | Hartwell |
| 9,578 | J Strom Thurmond |
| 10,557 | Russell |
| 35,500 | Savannah Harbor |
| 78,737 | TOTAL |

American Recovery and Reinvestment Act of 2009
 Army Corps of Engineers - Civil Works Expenditure Plan
 Construction

| Primary State | Project Name | Corps District | Purpose of Additional PY Capability | Amount (thousands) |
|---------------|---|----------------|--|--------------------|
| GA | J STROM THURMOND LAKE, GA & SC | Savannah | Advertise and award carbon dioxide Fire Supression System | 1,500 |
| GA | J STROM THURMOND LAKE, GA & SC | Savannah | Advertise and award Asbestos Tray Replacement contract | 2,900 |
| GA | J STROM THURMOND LAKE, GA & SC | Savannah | Advertise and award Oil-Filled Busswork replacement contract | 2,500 |
| GA | Richard B. Russell Dam and Lake | Savannah | Contract for the Above Ground Cryogenics Facility to mitigate thermal impacts to striped bass habitat | 3,750 |
| GA | SAVANNAH HARBOR DISPOSAL AREAS, GA & SC | Savannah | Raise the dikes for Disposal Areas 14A by 6 feet to regain lost capacity in order to support the maintenance dredging of the Savannah Harbor | 4,200 |
| GA | SAVANNAH HARBOR EXPANSION, GA | Savannah | Contracted work includes the Independent External Review by Battelle (by mod to the current contract), Contract draft report, final report and printing. | 700 |
| TOTAL | | | | 15,550 |