

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
AK	POD	NHD	ANCHORAGE HARBOR, AK	\$10,485,000	\$9,685,000		\$9,685,000		Funds will be used for specific work activities including dredging.	
AK	POD	NHD	AURORA HARBOR, AK	\$75,000			\$0			
AK	POD	ENS, FDRR, REC	CHENA RIVER LAKES, AK	\$7,236,000	\$7,236,000	\$1,905,000	\$9,141,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including relocation of the debris baling area/construction of a baling deck (\$1,800,000).	Funds will be used for baling deck for debris removal; dam outlet channel rock repairs; operations for recreation visitor assistance and public safety; south seepage collector channel; asphalt roads repairs; and, improve seepage monitoring for Dam Safety Interim Risk Reduction measures.
AK	POD	NHS	DILLINGHAM HARBOR, AK	\$875,000	\$875,000		\$875,000		Funds will be used for specific work activities including dredging.	
AK	POD	NHS	ELFIN COVE, AK	\$0	\$0	\$75,000	\$75,000	5		Funds will be used for dredging environmental coordination and plans and specifications.
AK	POD	NHD	HOMER HARBOR, AK	\$615,000	\$615,000		\$615,000		Funds will be used for specific work activities including dredging.	
AK	POD	FDRR	INSPECTION OF COMPLETED WORKS, AK	3/	\$200,000		\$200,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
AK	POD	NHS	JUNEAU HARBOR, AK	\$75,000			\$0			
AK	POD	NHD	KETCHIKAN HARBOR, BAR POINT, AK	\$0	\$0	\$100,000	\$100,000	2		Funds will be used for maintenance of breakwater plans and specifications.
AK	POD	NHS	NINILCHIK HARBOR, AK	\$650,000	\$600,000	\$50,000	\$650,000	5	Funds will be used for specific work activities including dredging.	Funds will be used for maintenance of seawall environmental coordination.
AK	POD	NHD	NOME HARBOR, AK	\$2,220,000	\$2,220,000		\$2,220,000		Funds will be used for specific work activities including dredging.	
AK	POD	NHD	PROJECT CONDITION SURVEYS, AK	3/	\$750,000		\$750,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
AL	SAD	ENS, FDRR, HYD, JOINT, NIL, REC	ALABAMA RIVER LAKES, AL	\$13,890,000	\$13,890,000	\$372,000	\$14,262,000	6	Funds will be used for commonly performed O&M work. There is a total of \$60,000 cost savings measures to replace outdoor lighting with LED lights. Funds will also be used for specific work activities including: Dam Safety formal annual report (\$31,000); an operational conditional assessment (\$25,000); and, boundary monumentation and rectification (\$175,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,014,000 for commonly performed O&M jointly used by multiple business lines: HYD - 45%, NAV - 22%, FRM - 18%, and REC - 15%.	Funds will be used for pest ad invasive species management and updating the Alabama-Coosa-Tallapoosa water control manuals.
AL	SAD	ENS, NIH, REC	BLACK WARRIOR AND TOMBIGBEE RIVERS, AL	\$25,953,000	\$25,953,000	\$2,500,000	\$28,453,000	4	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,911,000); placement area maintenance (\$565,000); dewatering and inspections of locks (\$2,700,000); operations condition assessment (\$50,000); operation condition assessment (\$25,000); and, formal Dam Safety inspections (\$517,000). There is a total of \$30,000 in cost savings measures to replace outdoor lights with LED lights.	Funds will be used for navigation dredging.
AL	SAD	NIH	GULF INTRACOASTAL WATERWAY, AL	\$5,289,633	\$5,290,000	\$2,502,120	\$7,792,120	4	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,170,000), snag removal (\$550,000) and levee drainage structure replacements (\$995,000).	Funds will be used for dredging plans and specifications; West Bay disposal area maintenance and Hurricane Michael debris removal.
AL	SAD	FDRR	INSPECTION OF COMPLETED WORKS, AL	3/	\$168,000		\$168,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
AL	SAD	NHD	MOBILE HARBOR, AL	\$26,031,000	\$26,031,000	\$16,100,000	\$47,081,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$23,133,000) and placement area maintenance (\$1,844,000).	Funds will be used for additional dredging in Mobile Bay Channel and River Channel to include dredging in support of the Gulf Regional Demonstration Program. Funds will also be used for dredge material placement area maintenance.
AL	SAD	NHD	MOBILE HARBOR, AL			\$4,950,000		3		Donor and Energy Transfer Port.
AL	SAD	NHS	PERDIDO PASS CHANNEL, AL	\$5,000	\$5,000	\$1,000,000	\$1,005,000	5	Funds will be used for commonly performed O&M work.	Funds will be used for dredging of the impoundment basin.
AL	SAD	NHS	PROJECT CONDITION SURVEYS, AL	3/	\$150,000		\$150,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
AL	SAD	FDRR	SCHEDULING RESERVOIR OPERATIONS, AL	3/	\$85,000		\$85,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
AL	SAD	NIH	TENNESSEE - TOMBIGBEE WATERWAY WILDLIFE MITIGATION, AL & MS	\$1,800,000	\$1,800,000		\$1,800,000		Funds will be used for commonly performed O&M work.	
AL	SAD	ENS, NIH, REC	TENNESSEE - TOMBIGBEE WATERWAY, AL & MS	\$37,389,000	\$37,389,000	\$6,029,000	\$43,698,000	4	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,124,000); dam safety inspections (\$536,000); dewatering, inspection and repair of Heflin Lock (\$1,300,000); temporary office space lease (\$300,000); replacement of project office (\$9,000,000); and, Master Plan compliance (\$600,000).	Funds will be used for channel dredging and dewatering Whitten Lock for inspection and repair.
AL	SAD	ENS, NIH, REC	TENNESSEE - TOMBIGBEE WATERWAY, AL & MS			\$280,000		6		Funds will be used for operation of recreation visitor centers and pest and invasive species management.
AL	SAD	ENS, HYD, JOINT, NIL, REC	WALTER F GEORGE LOCK AND DAM, AL & GA	\$9,099,000	\$9,099,000		\$9,099,000		Funds will be used for commonly performed O&M work. Fund will also be used for specific work activities including repair of potable water system (\$18,000); and, environmental compliance (\$20,000). As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$1,470,000 shared between business lines as follows: HYD - 54% and NAV - 46%. Funds will be used for commonly performed O&M work and a dam safety periodic inspection (\$202,000).	
AL	SAD	NHS	WATER/ENVIRONMENTAL CERTIFICATION, AL	\$0	\$0	\$70,000	\$70,000	5		Funds will be used for water quality certification requirements.
AR	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	BEAVER LAKE, AR	\$11,099,000	\$11,099,000	\$737,000	\$11,836,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including replace trunnion access ladders (\$120,000); investigate operability during flood operations (\$796,000); and, acquisition of land for lake operations (\$1,744,000). As a multiple purpose project with power, the budgeted amount for the project includes \$890,000 for commonly performed O&M jointly used by multiple business lines: HYD - 68%, FRM - 23%, and ENS - 9%.	Funds will be used for pest and invasive species management; law enforcement; real estate boundary monumentation and rectification; and, resolution of real estate encroachments.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
AR	MVD	ENS, FDRR, HYD, JOINT, REC, WTR	BLAKELY MT DAM, LAKE OUACHITA, AR	\$7,858,000	\$7,858,000	\$529,000	\$8,387,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including providing funds for plans & specifications; and supporting the identification, aggregation, and visualization of the routine operational data that is being collected from individual hydropower units and plants and stored locally at the project site (\$90,000). As a multiple purpose project with power, the budgeted amount for the project includes \$345,000 for commonly performed O&M jointly used by multiple business lines: HYD – 51% and FRM – 49%. Funds will also be used for specific work activities including dam safety, periodic inspections, and hydraulic steel structures inspections.	Funds will be used for pest and invasive species management; real estate boundary monumentation and rectification; replace deteriorated shower building piping; replace Little Fir recreation area wastewater treatment plant; and, replace Little Fir and Twin Creek primary electrical systems.
AR	SWD	ENS, FDRR, REC, WTR	BLUE MOUNTAIN LAKE, AR	\$1,762,000	\$1,762,000		\$1,762,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a periodic inspection (\$8,000) and stilling basin inspection before periodic assessment (\$59,000).	
AR	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	BULL SHOALS LAKE, AR	\$7,466,000	\$7,466,000	\$1,500,000	\$8,966,000	6	Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$844,000 for commonly performed O&M jointly used by multiple business lines: HYD – 49% and FRM – 51%.	Funds will be used for zebra mussel mitigation.
AR	MVD	ENS, FDRR, HYD, JOINT, NIL, REC, WTR	DEGRAY LAKE, AR	\$7,148,000	\$7,148,000	\$237,000	\$7,385,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including providing funding for plans & specifications for Lighting Arrestors and Surge Capacitors Upgrade/Replacement (\$45,000). As a multiple purpose project with power, the budgeted amount for the project includes \$320,000 for commonly performed O&M jointly used by multiple business lines: REC-33%, FRM-27%, EN-24%, HYD-13%, and NAV-3%.	Funds will be used for management of existing water supply agreements; operation of visitor assistance centers; and, to replace the sewage treatment facilities at the Arlie Moore campground.
AR	SWD	ENS, FDRR, REC, WTR	DEQUEEN LAKE, AR	\$1,579,000	\$1,579,000	\$25,000	\$1,604,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including to conduct a table top emergency exercise (\$14,000).	Funds will be used to update the water control manual.
AR	SWD	ENS, FDRR, REC, WTR	DIERKS LAKE, AR	\$1,410,000	\$1,410,000	\$49,000	\$1,459,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including to conduct a dam safety table top emergency exercise (\$14,000).	Funds will be used for cultural resource site monitoring and protection; pest and invasive species management; and, updating the water control manual.
AR	SWD	ENS, FDRR, REC, WTR	GILLHAM LAKE, AR	\$2,545,000	\$2,545,000	\$25,000	\$2,570,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including repair emergency and service slide gates (\$1,195,000), conduct dam safety tabletop emergency exercises (\$14,000), and clean and reseal the control tower bridge deck (\$21,000).	Funds will be used to update the water control manual.
AR	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	GREERS FERRY LAKE, AR	\$9,043,000	\$9,043,000	\$911,000	\$9,954,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including to re-seal expansion joints and to spot repair a road (\$275,000) and revising the Greers Ferry Lake Shoreline Management Plan (\$650,000). As a multiple purpose project with power, the budgeted amount for the project includes \$934,000 for commonly performed O&M jointly used by multiple business lines: HYD – 59% and FRM – 41%.	Funds will be used for the operation and maintenance of visitor assistance centers and the Greers Ferry governor rehabilitation.
AR	MVD	NHS	HELENA HARBOR, PHILLIPS COUNTY, AR	\$15,000	\$15,000		\$15,000		Funds will be used for commonly performed O&M work.	
AR	MVD	FDRR	INSPECTION OF COMPLETED WORKS, AR	3/	\$1,151,000		\$1,151,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
AR	SWD	ENS, HYD, JOINT, NIH, REC, WTR	MCLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM, AR	\$52,475,000	\$52,475,000	\$6,900,000	\$59,391,000	4	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities, including channel dredging for MKARNS (\$2,043,000), periodic and stilling basin inspections and assessments (\$329,000), acquisition and administration of hyacinth control in Pool 2 and Arkansas Post Canal of the MKARNS (\$190,000), repair stoplog centerpost receivers and inspect miter gates at Ormond Lock #9 (\$3,000,000), rehabilitate and paint tainter gates at Wilbur D. Mills Dam (Package 1 of 4) (\$4,400,000), prepare Rehabilitation Evaluation Report (RER) for Terry Lock & Dam - Phase 1 (\$1,000,000), repair scour area immediately downstream of Lock 1 approach apron (\$899,000) and conduct a survey of boundary line to verify establishment of survey monuments (\$70,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,918,000 for commonly performed O&M jointly used by multiple business lines: HYD – 53% and NAV – 47% at Dardanelle and REC – 63%, HYD – 18%, NAV – 16%, and EN – 3% at Ozark.	Funds will be used for the Rehabilitation Evaluation Report (RER) for Terry Lock & Dam - Phase 2; replace Lock and Dam power, lighting, and control wiring; and, rehabilitate and paint tainter gates at the Wilbur D. Mills Dam No. 02.
AR	SWD	ENS, HYD, JOINT, NIH, REC, WTR	MCLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM, AR			\$16,000		6		Funds will be used for operation for recreation visitor centers.
AR	SWD	ENS, FDRR, REC, WTR	MILLWOOD LAKE, AR	\$3,245,000	\$3,245,000	\$42,000	\$3,287,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including conduct tabletop emergency exercises (\$18,000), replace/repair pool gauges (\$85,000), replace limit switches in hoist houses (\$110,000) and, updates to the Millwood Lake Master Plan/Shoreline Management Plan (\$600,000).	Funds will be used for pest and invasive species management and updating the water control plan.
AR	MVD	ENS, FDRR, HYD, JOINT, REC	NARROWS DAM, LAKE GREESON, AR	\$5,732,000	\$5,732,000		\$5,732,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including providing funding to replace lighting in the inspection gallery of the dam (replace electrical conduit and install new wiring and fixtures) (\$25,000). As a multiple purpose project with power, the budgeted amount for the project includes \$283,000 for commonly performed O&M jointly used by multiple business lines: HYD – 22% and FRM – 78%	
AR	SWD	ENS, FDRR, REC, WTR	NIMROD LAKE, AR	\$2,009,000	\$2,009,000		\$2,009,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including to conduct a periodic bridge inspection (\$1,000) and conduct a stilling basin inspection (\$59,000).	
AR	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	NORFORK LAKE, AR	\$7,342,000	\$7,342,000		\$7,342,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including repair bridge bearings (\$750,000) and continue Norfolk Lake Master Plan revisions (\$600,000). As a multiple purpose project with power, the budgeted amount for the project includes \$951,000 for commonly performed O&M jointly used by multiple business lines: HYD – 36% and FRM – 64%.	
AR	MVD	NHS	OSCEOLA HARBOR, AR	\$15,000	\$15,000		\$15,000		Funds will be used for commonly performed O&M work.	
AR	MVD	ENS, FDRR, NIL, REC	OUACHITA AND BLACK RIVERS, AR & LA	\$7,339,000	\$7,339,000	\$30,000	\$7,369,000	5	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including removal of silt accumulation due to flooding (\$40,000).	Funds will be used for physical/cyber security maintenance and replacement.
AR	MVD	NIH	PROJECT CONDITION SURVEYS, AR	3/	\$5,000		\$5,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
AR	MVD	NIL	WHITE RIVER, AR	\$25,000	\$25,000		\$25,000		Funds will be used for commonly performed O&M work.	
AS	POD	NHS	AUNUU HARBOR, AMERICAN SAMOA	\$0	\$0	\$650,000	\$650,000	5		Funds will be used to prepare the breakwater repair plans and specifications.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
AZ	SPD	ENS, FDRR, REC	ALAMO LAKE, AZ	\$2,905,000	\$2,905,000		\$2,905,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a periodic assessment (\$260,000) and the final phase of the update to water control manual (\$250,000).	
AZ	SPD	FDRR	INSPECTION OF COMPLETED WORKS, AZ	3/	\$250,000		\$250,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
AZ	SPD	ENS, FDRR, REC	PAINTED ROCK DAM, AZ	\$1,165,000	\$1,165,000		\$1,165,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a hydraulic steel structure inspection (\$70,000), and a bridge inspection (\$50,000).	
AZ	SPD	FDRR	SCHEDULING RESERVOIR OPERATIONS, AZ	3/	\$117,000		\$117,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
AZ	SPD	ENS, FDRR	WHITLOW RANCH DAM, AZ	\$559,000	\$559,000		\$559,000		Funds will be used for commonly performed O&M work.	
CA	SPD	ENS, FDRR, REC, WTR	BLACK BUTTE LAKE, CA	\$8,050,000	\$8,050,000	\$275,000	\$8,325,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a Hydraulic Steel Structure Inspection (\$60,000); replacement of headquarters building (\$5,000,000) and rehabilitate restrooms (\$90,000).	Funds will be used for pest and invasive species management and restroom rehabilitation.
CA	SPD	ENS, FDRR, REC, WTR	BUCHANAN DAM, HV EASTMAN LAKE, CA	\$4,977,000	\$4,977,000		\$4,977,000		Funds will be used for commonly performed O&M. Funds will also be used for specific work activities including arc flash hazard analysis (\$200,000), access road rockslide repair (\$2,300,000), and a dam safety inspection and assessment report (\$46,000).	
CA	SPD	NHD	CHANNEL ISLANDS HARBOR, CA	\$5,290,000	\$5,290,000	\$6,750,000	\$12,040,000	2	Funds will be used for specific work activities including dredging.	Funds will be used for dredging activities.
CA	SPD	ENS, FDRR, REC, WTR	COYOTE VALLEY DAM, LAKE MENDOCINO, CA	\$3,704,000	\$3,704,000	\$275,000	\$3,979,000	6	Funds will be used for commonly performed O&M work.	Funds will be used to update the water control manual.
CA	SPD	NHS	CRESCENT CITY HARBOR, CA	\$0	\$0	\$670,000	\$670,000	5		Funds will be used for the development of placement facility plans and specifications; environmental coordination, surveys and development of dredge material management plan requirements.
CA	SPD	ENS, FDRR, REC, WTR	DRY CREEK (WARM SPRINGS) LAKE AND CHANNEL, CA	\$6,816,000	\$6,816,000	\$1,220,000	\$8,036,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including an emergency water supply line repair (\$1,100,000) and boundary inspection and marking (\$10,000).	Funds will be used for operation and maintenance of visitor assistance centers; Coho salmon water filtration and incubation facility; and, a spillway erodability analysis.
CA	SPD	FDRR	FARMINGTON DAM, CA	\$712,000	\$712,000		\$712,000		Funds will be used for commonly performed O&M work.	
CA	SPD	ENS, FDRR, REC, WTR	HIDDEN DAM, HENSLEY LAKE, CA	\$2,638,000	\$2,638,000		\$2,638,000		Funds will be used for commonly performed O&M work. Funds will be used for specific work activities including bridge inspections (\$40,000), periodic assessments (\$148,000), and hydraulic steel structures inspection and assessment (\$60,000).	
CA	SPD	NHD	HUMBOLDT HARBOR AND BAY, CA	\$3,962,000	\$3,962,000	\$6,930,000	\$10,892,000	2	Funds will be used for specific work activities including dredging.	Funds will be used for additional dredging of the bar and entrance channel and interior channels.
CA	SPD	FDRR	INSPECTION OF COMPLETED WORKS, CA	3/	\$3,173,000		\$3,173,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
CA	SPD	ENS, FDRR, WTR	ISABELLA LAKE, CA	\$1,696,000	\$1,696,000		\$1,696,000		Funds will be used for commonly performed O&M. Funds will also be used for specific work activities including a Hydraulic Steel Structure Inspection (\$50,000) and Boundary Monumentation and Rectification (\$175,000).	
CA	SPD	NHD	LOS ANGELES - LONG BEACH HARBORS, CA	\$0	\$0	\$10,861,000	\$10,861,000	3		Donor and Energy Transfer Port.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
CA	SPD	ENS, FDRR, REC	LOS ANGELES COUNTY DRAINAGE AREA, CA	\$13,108,000	\$13,108,000	\$2,500,000	\$15,608,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including Bridge Inspections (\$240,000), IRRM-DSAC 2 for Lopez Dam (\$50,000), Levee Safety Inspections (\$228,000), and Update Water Control Manual for Whittier Narrows Dam (\$285,000).	Funds will be used for sediment removal in the Los Angeles River channel.
CA	SPD	FDRR	MERCED COUNTY STREAMS, CA	\$470,000	\$470,000		\$470,000		Funds will be used for commonly performed O&M work.	
CA	SPD	ENS, FDRR, REC	MOJAVE RIVER DAM, CA	\$1,329,000	\$1,329,000		\$1,329,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance of Outlet Conduit / Tunnel (\$300,000).	
CA	SPD	NHD	MORRO BAY HARBOR, CA	\$2,750,000	\$2,750,000		\$2,750,000		Funds will be used for specific work activities including dredging.	
CA	SPD	NHD	MOSS LANDING HARBOR, CA	\$0	\$0	\$7,050,000	\$7,050,000	2		Funds will be used for dredging and North Jetty repairs.
CA	SPD	ENS, FDRR, REC, WTR	NEW HOGAN LAKE, CA	\$3,583,000	\$3,583,000		\$3,583,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including an alignment survey (\$35,000); a hydraulic steel structure inspection (\$40,000); and, a boundary survey (\$200,000).	
CA	SPD	ENS, FDRR, REC	NEW MELONES LAKE, DOWNSTREAM CHANNEL, CA	\$2,197,000	\$2,197,000	\$565,000	\$2,762,000	6	Funds will be used for commonly performed O&M work. Funds also be used for specific work activities including boundary and flowage easement inspection and monitoring activities (\$400,000).	Funds will be used for operation and maintenance of visitor assistance centers and resolution of real estate encroachments.
CA	SPD	NHD	NOYO RIVER AND HARBOR, CA	\$0	\$0	\$4,235,000	\$4,235,000	2		Funds will be used for dredging activities.
CA	SPD	NHD	OAKLAND HARBOR, CA	\$20,563,000	\$20,563,000		\$20,563,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging and O&M of the Fruitvale Avenue railroad bridge.	
CA	SPD	NHD	OCEANSIDE HARBOR, CA	\$2,650,000	\$2,650,000		\$2,650,000		Funds will be used for specific work activities including dredging.	
CA	SPD	NHS	PETALUMA RIVER, CA	\$0	\$0	\$9,745,000	\$9,745,000	5		Funds will be used for dredging activities.
CA	SPD	ENS, FDRR, REC, WTR	PINE FLAT LAKE, CA	\$4,226,000	\$4,226,000	\$25,000	\$4,251,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for an alignment survey (\$16,000) and a hydraulic steel structural inspection (\$80,000)	Funds will be used for environmental compliance requirements.
CA	SPD	NHD	PORT HUENEME, CA	\$0	\$0	\$3,290,000	\$3,430,000	2		Funds will be used for dredging activities.
CA	SPD	NHD	PORT HUENEME, CA			\$140,000		3		Donor and Energy Transfer Port.
CA	SPD	NHD	PORT SAN LUIS, CA	\$0	\$0	\$2,420,000	\$2,420,000	2		Funds will be used for breakwater repairs.
CA	SPD	NHD	PROJECT CONDITION SURVEYS, CA	3/	\$1,494,000		\$1,494,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
CA	SPD	NHD	REDWOOD CITY HARBOR, CA	\$475,000	\$475,000		\$475,000		Funds will be used for specific work activities including dredging.	
CA	SPD	NHD	RICHMOND HARBOR, CA	\$14,519,000	\$14,519,000		\$14,519,000		Funds will be used for specific work activities including dredging.	
CA	SPD	NHD	SACRAMENTO RIVER (30 FOOT PROJECT), CA	\$2,030,000	\$2,030,000	\$4,500,000	\$6,530,000	2	Funding will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging.	Funds will be used for dredging activities.
CA	SPD	ENS, NHS, REC	SACRAMENTO RIVER AND TRIBUTARIES (DEBRIS CONTROL), CA	\$1,621,000	\$1,621,000		\$1,621,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including boundary monumentation and rectification for environmental stewardship (\$75,000) and Hydraulic Steel Structural Inspections (\$60,000).	
CA	SPD	NHS	SACRAMENTO RIVER SHALLOW DRAFT CHANNEL, CA	\$175,000	\$175,000		\$175,000		Funds will be used for replacement of the wing dam buoys.	
CA	SPD	NHD	SAN DIEGO HARBOR, CA	\$0	\$0	\$138,000	\$138,000	3		Donor and Energy Transfer Port.
CA	SPD	NHD	SAN DIEGO RIVER AND MISSION BAY, CA	\$0	\$0	\$2,000,000	\$2,000,000	2		Funds will be used for repair of the Mission Bay jetties.
CA	SPD	REC	SAN FRANCISCO BAY DELTA MODEL STRUCTURE, CA	\$743,000	\$743,000	\$272,000	\$1,015,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for maintenance of the visitor assistance centers.
CA	SPD	NHD	SAN FRANCISCO BAY LONG TERM MANAGEMENT STRATEGY, CA	\$405,000	\$405,000	\$1,200,000	\$1,605,000	2	Funds will be used for commonly performed O&M work.	Funds will be used for environmental coordination and to continue the development of the regional dredge material management plan.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
CA	SPD	NHD	SAN FRANCISCO HARBOR AND BAY, CA (DRIFT REMOVAL)	\$3,538,000	\$3,538,000		\$3,538,000		Funds will be used for commonly performed O&M work.	
CA	SPD	NHD	SAN FRANCISCO HARBOR, CA	\$4,530,000	\$4,530,000		\$4,530,000		Funds will be used for commonly performed O&M work.	
CA	SPD	NHD	SAN JOAQUIN RIVER, PORT OF STOCKTON, CA	\$4,530,000	\$4,530,000	\$2,750,000	\$7,280,000	2	Funds will be used for specific work activities including dredging.	Funds will be used for dredging activities.
CA	SPD	NHD	SAN PABLO BAY AND MARE ISLAND STRAIT, CA	\$2,880,000	\$2,880,000		\$2,880,000		Funds will be used for specific work activities including dredging.	
CA	SPD	NHS	SAN RAFAEL CREEK, CA	\$28,000	\$28,000	\$1,350,000	\$1,378,000	5	Funds will be used for commonly performed O&M work.	Funds will be used for environmental coordination and compliance; plans and specifications; and, dredge surveys.
CA	SPD	ENS, FDRR, REC	SANTA ANA RIVER BASIN, CA	\$6,158,000	\$6,158,000	\$3,750,000	\$9,908,000	6	Funds will be used for commonly performed O&M work at 6 dams and 16 miles of levee and channel. Funds will also be used for specific work activities including hydraulic steel structure inspections for two dams (\$140,000), Interim Risk Reduction Measures (\$110,000), and lighting upgrades at 4 dams (\$60,000).	Funds will be used for levee and channel maintenance and Prado Dam non-structural and structural interim risk reduction measures.
CA	SPD	NHD	SANTA BARBARA HARBOR, CA	\$3,620,000	\$3,620,000		\$3,620,000		Funds will be used for specific work activities including dredging.	
CA	SPD	NHD	SANTA CRUZ HARBOR, CA	\$0	\$0	\$540,000	\$540,000	2		Funds will be used for dredging activities to include reimbursement to the Port.
CA	SPD	FDRR	SCHEDULING RESERVOIR OPERATIONS, CA	3/	\$1,464,000		\$1,464,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
CA	SPD	ENS, FDRR, REC, WTR	SUCCESS LAKE, CA	\$2,729,000	\$2,729,000	\$125,000	\$2,854,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a hydraulic steel structure inspection (\$50,000) and GPS boundary survey and rectification.	Funds will be used for pest and invasive species management.
CA	SPD	NHD	SUISUN BAY CHANNEL, CA	\$5,800,000	\$5,800,000		\$5,800,000		Funds will be used for commonly performed O&M work.	
CA	SPD	ENS, FDRR, REC, WTR	TERMINUS DAM, LAKE KAWEAH, CA	\$3,205,000	\$3,205,000	\$200,000	\$3,405,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a hydraulic steel structure inspection (\$60,000).	Funds will be used for restroom rehabilitation.
CA	SPD	NHD	VENTURA HARBOR, CA	\$0	\$0	\$1,625,000	\$1,625,000	2		Funds will be used for dredging activities.
CA	SPD	ENS, NHS	YUBA RIVER, CA	\$1,519,000	\$1,519,000	\$100,000	\$1,619,000	5	Funds will be used for commonly performed O&M. Funds will also be used for specific work activities including boundary monumentation and rectification for environmental stewardship (\$162,000).	Funds will be used for management of threatened and endangered species impacted by navigation activities.
CO	NWD	ENS, FDRR, REC	BEAR CREEK LAKE, CO	\$646,000	\$646,000		\$646,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including: Surveys in Support of Periodic Inspection #13 (\$90,000) and Weatherproof Right Abutment Pneumatic PZ Terminal House (\$63,000).	
CO	NWD	ENS, FDRR, REC	CHATFIELD LAKE, CO	\$1,961,000	\$1,961,000		\$1,961,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including: Bridge Inspection Chatfield Intake Structure Bridge (\$25,000) and Repair of Concrete Erosion Damage to Invert of Flood Control Conduit (\$314,000).	
CO	NWD	ENS, FDRR, REC	CHERRY CREEK LAKE, CO	\$1,061,000	\$1,061,000	\$750,000	\$1,811,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including: periodic inspection for Cherry Creek Lake (\$100,000) and review and update of the IRRM plan (\$30,000).	Funds will be used for the Fort Randall Spillway boat ramp and access road repairs.
CO	NWD	FDRR	INSPECTION OF COMPLETED WORKS, CO	3/	\$435,000		\$435,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
CO	SPD	ENS, FDRR, REC	JOHN MARTIN RESERVOIR, CO	\$3,865,000	\$3,865,000		\$3,865,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including the replacement of concrete dam raised sidewalks on both sides of crest road (1200 LF - 2400 LF total) (\$250,000), and to complete design and issue a contract to install of toe drain extensions at the Fort Lyon Levee, which protects a registered historic property and National Cemetery (\$485,000).	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
CO	SPD	FDRR	SCHEDULING RESERVOIR OPERATIONS, CO	3/	\$601,000		\$601,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
CO	SPD	ENS, FDRR, REC	TRINIDAD LAKE, CO	\$2,305,000	\$2,305,000		\$2,305,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of radio repeater antenna replacement (\$160,000), boundary line surveys, and maintenance and monitoring of boundary lines (\$300,000).	
CT	NAD	ENS, FDRR, REC	BLACK ROCK LAKE, CT	\$657,000	\$657,000		\$657,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance of project roadways (\$45,000).	
CT	NAD	ENS, FDRR, REC, WTR	COLEBROOK RIVER LAKE, CT	\$779,000	\$779,000		\$779,000		Funds will be used for commonly performed O&M work.	
CT	NAD	ENS, FDRR, REC	HANCOCK BROOK LAKE, CT	\$586,000	\$586,000		\$586,000		Funds will be used for commonly performed O&M work.	
CT	NAD	ENS, FDRR, REC	HOP BROOK LAKE, CT	\$1,214,000	\$1,214,000		\$1,214,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including conduct bridge inspections (\$3,000).	
CT	NAD	FDRR	INSPECTION OF COMPLETED WORKS, CT	3/	\$303,000		\$303,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
CT	NAD	ENS, FDRR, REC	MANSFIELD HOLLOW LAKE, CT	\$880,000	\$880,000		\$880,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including periodic inspections (\$100,000).	
CT	NAD	ENS, FDRR, REC	NORTHFIELD BROOK LAKE, CT	\$836,000	\$836,000		\$836,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including periodic assessments (\$50,000), dam spillway/discharge channel safety fence repairs and debris removal (\$155,000), replace security fencing and project gates (\$128,000) and conducting a forest inventory and timber survey (\$50,000).	
CT	NAD	NHS	PROJECT CONDITION SURVEYS, CT	3/	\$800,000		\$800,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
CT	NAD	FDRC	STAMFORD HURRICANE BARRIER, CT	\$851,000	\$851,000		\$851,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including replacing operating building roofs (\$285,000).	
CT	NAD	ENS, FDRR, REC	THOMASTON DAM, CT	\$1,139,000	\$1,139,000		\$1,139,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$10,000), repairs recommended in periodic assessment (\$55,000), upgrade dam tower and utility building electrical systems (\$26,000), replace security fencing and project gates (\$138,000), and security system upgrade/replacement and monitoring services (\$25,000).	
CT	NAD	ENS, FDRR, REC	WEST THOMPSON LAKE, CT	\$811,000	\$811,000		\$811,000		Funds will be used for common O&M work. Funds will also be used for specific work activities including bridge inspections (\$10,000).	
DC	NAD	FDRR	INSPECTION OF COMPLETED WORKS, DC	3/	\$85,000		\$85,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
DC	NAD	NHD	POTOMAC AND ANACOSTIA RIVERS, DC (DRIFT REMOVAL)	\$1,075,000	\$1,075,000	\$240,000	\$1,315,000	2	Funds will be used for commonly performed O&M work.	Funds will be used for dredging activities.
DC	NAD	NHS	PROJECT CONDITION SURVEYS, DC	3/	\$30,000		\$30,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
DC	NAD	NHD	WASHINGTON HARBOR, DC	\$25,000	\$25,000		\$25,000		Funds will be used for commonly performed O&M work.	
DE	NAD	NHS	INDIAN RIVER INLET & BAY, DE	\$33,000	\$33,000		\$33,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including Civil Works Geospatial Land Data Migration (\$3,000).	
DE	NAD	FDRR	INSPECTION OF COMPLETED WORKS, DE	3/	\$71,000		\$71,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
DE	NAD	NHD	INTRACOASTAL WATERWAY, DELAWARE RIVER TO CHESAPEAKE BAY, DE & MD	\$22,255,000	\$22,255,000	\$250,000	\$22,505,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$9,525,000), electrical grounding and repair of radio towers (\$600,000), repair substructure concrete on Reedy Point Bridge (\$1,600,000), and substructure concrete and miscellaneous steel repairs on Summit Bridge (\$2,900,000).	Funds will be used to roof repair and rehabilitation on the C&D facility.
DE	NAD	NIH	INTRACOASTAL WATERWAY, REHOBOTH BAY TO DELAWARE BAY, DE	\$150,000			\$0			
DE	NAD	NHD	PROJECT CONDITION SURVEYS, DE	3/	\$200,000		\$200,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
DE	NAD	NHD	WILMINGTON HARBOR, DE	\$7,740,000	\$7,740,000	\$2,600,000	\$10,340,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$7,250,000).	Funds will be used for maintenance of the dredge material disposal facilities.
FL	SAD	NHD	CANAVERAL HARBOR, FL	\$1,474,000	\$1,474,000	\$6,533,000	\$8,007,000	2	Funds will be used for commonly performed O&M work.	Funds will be used for Hurricane Dorian navigation mitigation dredging activities in Brevard County and inspection and repairs of the Canaveral Lock Western and Eastern sector gates.
FL	SAD	ENS, FDRR, NHS, REC	CENTRAL & SOUTHERN FLORIDA, FL	\$20,230,000	\$20,230,000	\$904,000	\$22,038,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including an operational conditional assessment (\$50,000), formal periodic inspection and reports for Herbert Hoover Dike (\$750,000), critical hurricane improvements of S-77 (\$904,000), revision of the LORS (\$1,000,000) and to replace the septic system at Buildings SF-1 and SF-2 with municipal sanitary sewer connection.	Funds will be used to meet hurricane standards for the W.P. Franklin Lock control building.
FL	SAD	ENS, FDRR, NHS, REC	CENTRAL & SOUTHERN FLORIDA, FL			\$904,000		6		Funds will be used to meet hurricane standards for the Port Mayaca Dam Spillway S-308 control building.
FL	SAD	NHS	ESCAMBIA AND CONECUH RIVERS, FL & AL	\$45,000	\$45,000		\$45,000		Funds will be used for commonly performed O&M work.	
FL	SAD	NHD	FERNANDINA HARBOR, FL	\$0	\$0	\$6,550,000	\$6,550,000	2		Funds will be used for dredging activities.
FL	SAD	FDRR	INSPECTION OF COMPLETED WORKS, FL	3/	\$1,173,000		\$1,173,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
FL	SAD	NIL	INTRACOASTAL WATERWAY, JACKSONVILLE TO MIAMI, FL	\$3,480,000	\$3,480,000	\$1,620,000	\$5,100,000	5	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including plans and specifications (\$250,000), environmental coordination (\$250,000), dredging (\$2,400,000), and supervision and administration (\$250,000).	Funds will be used for dredging activities.
FL	SAD	NHD	JACKSONVILLE HARBOR, FL	\$8,310,000	\$8,310,000	\$5,000,000	\$13,310,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$7,500,000).	Funds will be used for dredging activities.
FL	SAD	ENS, HYD, JOINT, NIL, REC	JIM WOODRUFF LOCK AND DAM, LAKE SEMINOLE, FL, AL & GA	\$8,202,000	\$8,202,000		\$8,202,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including operations condition assessment (\$25,000) and Master Plan compliance (\$600,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,299,000 for commonly performed O&M jointly used by multiple business lines: HYD - 35% and NAV - 65%.	
FL	SAD	NHD	MANATEE HARBOR, FL	\$230,000	\$230,000	\$2,500,000	\$2,730,000	2	Funds will be used for commonly performed O&M work.	Funds will be used for maintenance of the dredge material placement facility.
FL	SAD	NHD	MIAMI HARBOR, FL	\$230,000	\$230,000	\$2,371,000	\$2,601,000	3	Funds will be used for commonly performed O&M work.	Donor and Energy Transfer Port.
FL	SAD	ENS, NHS, REC	OKEECHOBEE WATERWAY, FL	\$2,736,000	\$2,736,000	\$300,000	\$3,036,000	5	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including the periodic inspection of St. Lucie Lock and Dam (\$120,000) and to replace toilets with incinerating toilets at Moore Haven Lock (\$13,000).	Funds will be used to develop the plans and specifications for the St. Lucie Gate Repairs.
FL	SAD	NHD	PALM BEACH HARBOR, FL	\$3,970,000	\$3,970,000		\$3,970,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,640,000).	
FL	SAD	NHD	PANAMA CITY HARBOR, FL	\$0	\$0	\$3,850,000	\$3,850,000	2		Funds will be used for jetty rehabilitation required as a result of Hurricane Michael damages.
FL	SAD	NHD	PORT EVERGLADES HARBOR, FL	\$373,000	\$373,000	\$214,000	\$587,000	3	Funds will be used for commonly performed O&M work.	Donor and Energy Transfer Port.
FL	SAD	NHS	PROJECT CONDITION SURVEYS, FL	3/	\$1,275,000		\$1,275,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
FL	SAD	NHD	REMOVAL OF AQUATIC GROWTH	\$3,410,000	\$3,410,000		\$3,410,000		Funds will be used for commonly performed O&M work.	
FL	SAD	FDOR	SCHEDULING RESERVOIR OPERATIONS, FL	3/	\$120,000		\$120,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
FL	SAD	ENR	SOUTH FLORIDA ECOSYSTEM RESTORATION, FL	\$5,454,000	\$5,454,000	\$8,367,000	\$13,821,000	6	Funds are provided to satisfy existing biological opinions needs.	Funds are provided for the Federal cost share for O&M work that was not funded in FY 2019 and FY 2020.
FL	SAD	NHD	TAMPA HARBOR, FL	\$8,530,000	\$8,530,000		\$8,530,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$7,800,000).	
FL	SAD	NHS	WATER/ENVIRONMENTAL CERTIFICATION, FL	\$0	\$0	\$180,000	\$180,000	5		Funds will be used for water quality certification requirements.
GA	SAD	ENS, FDOR, HYD, JOINT, REC, WTR	ALLATOONA LAKE, GA	\$8,747,000	\$8,747,000	\$391,000	\$9,138,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including boundary monumentation and rectification (\$110,000) and water supply agreement management (\$25,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,078,000 for commonly performed O&M jointly used by multiple business lines: HYD - 78% and FRM - 22%.	Funds will be used to complete the water supply reallocation study.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
GA	SAD	ENS, NIL, REC	APALACHICOLA, CHATTAHOOCHEE AND FLINT RIVERS, GA, AL & FL	\$1,622,000	\$1,622,000	\$12,000	\$1,634,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including annual dam safety periodic inspection (\$191,000) and environmental compliance management (\$5,000).	Funds will be used for minimum reliable operation of recreation features.
GA	SAD	NIL	ATLANTIC INTRACOASTAL WATERWAY, GA	\$200,000	\$200,000	\$264,000	\$3,589,000	1	Funds will be used for commonly performed O&M work.	Funds will be used for dredging activities.
GA	SAD	NIL	ATLANTIC INTRACOASTAL WATERWAY, GA			\$3,125,000		5		Funds will be used for dredging activities.
GA	SAD	NHD	BRUNSWICK HARBOR, GA	\$5,783,000	\$5,783,000	\$5,127,000	\$10,910,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$5,043,000).	Funds will be used for dredging activities and dredge material disposal facility maintenance and construction.
GA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	BUFORD DAM AND LAKE SIDNEY LANIER, GA	\$10,262,000	\$10,262,000	\$15,000	\$10,277,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including update to the shoreline management database (\$40,000); boundary maintenance (\$250,000); and, water supply agreement management. As a multiple purpose project with power, the budgeted amount for the project includes \$1,143,000 for commonly performed O&M jointly used by multiple business lines: HYD - 75%, NAV - 4%, and FRM - 21%.	Funds will be used for cultural resource site monitoring and protection.
GA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	CARTERS DAM AND LAKE, GA	\$7,366,000	\$7,366,000		\$7,366,000		Funds will be used for commonly performed O&M work. Funds will be used for specific work activities including environmental compliance management (\$20,000) and analysis of hydropower operational data (\$25,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,465,000 for commonly performed O&M jointly used by multiple business lines: HYD - 65% and FRM - 35%.	
GA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	HARTWELL LAKE, GA & SC	\$10,450,000	\$10,450,000	\$600,000	\$11,050,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including resetting missing monuments to protect encroachments (\$125,000). As a multiple purpose project with power, the budgeted amount for the project includes \$766,000 for commonly performed O&M jointly used by multiple business lines: HYD - 90%, NAV - 4% and FRM - 6%.	Funds will be used to replace failed Clemson Pump Station pumps.
GA	SAD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, GA	3/	\$0	\$15,000	\$15,000	6		Funds will be used to conduct annual inspections of completed environmental projects and notify sponsors of corrective actions required as described in the project operation and maintenance manual.
GA	SAD	FDRR	INSPECTION OF COMPLETED WORKS, GA	3/	\$161,000		\$161,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
GA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	J STROM THURMOND LAKE, GA & SC	\$10,713,000	\$10,713,000	\$380,000	\$11,093,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including to conduct an Operations Condition Assessment (\$25,000); boundary surveying and recertification (\$16,000); pest and invasive species management (\$78,000); complete revision of the project Master Plan (\$175,000); and, creel surveys to monitor the impacts of hydrilla control efforts (\$115,000). As a multiple purpose project with power, the budgeted amount for the project includes \$861,000 for commonly performed O&M jointly used by multiple business lines: HYD - 85%, NAV - 8% and FRM - 7%.	Funds will be used for maintenance of recreation areas and service facilities.
GA	SAD	NIL	PROJECT CONDITION SURVEYS, GA	3/	\$100,000		\$100,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBDU	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
GA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	RICHARD B RUSSELL DAM AND LAKE, GA & SC	\$9,231,000	\$9,231,000		\$9,231,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$2,449,000 for commonly performed O&M jointly used by multiple business lines: FRM - 0.25%, HYD - 79% and REC - 20.75%.	
GA	SAD	NHD	SAVANNAH HARBOR, GA	\$28,640,000	\$28,640,000	\$21,300,000	\$49,940,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$23,240,000).	Funds will be used for dredging activities and dredge material disposal facility maintenance and construction.
GA	SAD	NHS	SAVANNAH RIVER BELOW AUGUSTA, GA	\$169,000	\$169,000		\$169,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a periodic inspection of the Butler Creek Bridge (\$10,000).	
GA	SAD	ENS, FDRR, HYD, JOINT, REC	WEST POINT DAM AND LAKE, GA & AL	\$7,825,000	\$7,825,000	\$20,000	\$7,845,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including environmental compliance (\$20,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,134,000 for commonly performed O&M jointly used by multiple business lines: HYD - 45%, NAV - 2%, FRM - 15%, ENS - 11% and REC - 27%.	Funds will be used for pest and invasive species management.
GU	POD	NHS	AGAT SMALL BOAT HARBOR, GAUM	\$0	\$0	\$713,000	\$713,000	5		Funds will be used to prepare the dredging plans and specifications.
HI	POD	REC	BARBERS POINT HARBOR, HI	\$297,000	\$297,000	\$60,000	\$357,000	6	Funds will be used for commonly performed O&M.	Funds will be used for office space renovations.
HI	POD	NHD	HILO HARBOR, HI	\$582,000	\$582,000		\$582,000		Funds will be used to finish the design report using the survey analysis and prepare the design package, to include environmental analyses and detailed plans and specifications, for repair of the breakwater structure at Hilo Harbor. The basis of design report will analyze repair options to include documentation of current field investigations and determine the recommended course of action.	
HI	POD	NHD	HONOLULU HARBOR, HI	\$175,000	\$175,000		\$175,000		Funds will be used for specific work activities including environmental monitoring.	
HI	POD	FDRR	INSPECTION OF COMPLETED WORKS, HI	3/	\$613,000		\$613,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
HI	POD	NHD	PROJECT CONDITION SURVEYS, HI	3/	\$581,000		\$581,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
IA	MVD	ENS, FDRR, REC	CORALVILLE LAKE, IA	\$4,447,000	\$4,447,000	\$325,000	\$4,772,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities to replace the overhead crane cable and sheave (\$100,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance as well as for operations of high efficiency day use and water and land access areas.
IA	NWD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, IA	3/	\$0	\$6,000	\$6,000	6		Funds will be used to conduct annual inspections of completed environmental projects and notify sponsors of corrective actions required as described in the project operation and maintenance manual.
IA	MVD	FDRR	INSPECTION OF COMPLETED WORKS, IA	3/	\$1,422,000		\$1,422,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
IA	NWD	ENS, NIL	MISSOURI RIVER - SIOUX CITY TO THE MOUTH, IA, KS, MO & NE	\$10,543,000	\$10,543,000	\$3,000,000	\$15,743,000	4	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including critical structure maintenance for navigation (\$1,560,000).	Funds will be used for high priority repairs due to FY2019 flood damages to navigation structures.
IA	NWD	ENS, NIL	MISSOURI RIVER - SIOUX CITY TO THE MOUTH, IA, KS, MO & NE			\$2,200,000		5		Funds will be used for high priority repairs due to FY2019 flood damages to navigation structures.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
IA	NWD	NIL	MISSOURI RIVER FISH AND WILDLIFE RECOVERY, IA, KS, MO, MT, NE, ND & SD	\$4,743,000	\$4,743,000	\$1,400,000	\$6,143,000	5	Funds will be used for commonly performed O&M work.	Funds will be used for high priority repairs to mitigation lands due to FY2019 flood damages.
IA	MVD	NHS	PROJECT CONDITION SURVEYS, IA	3/	\$2,000		\$2,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
IA	NWD	ENS, FDRR, REC, WTR	RATHBUN LAKE, IA	\$2,504,000	\$2,504,000	\$317,000	\$2,821,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a bridge safety inspection (\$9,000).	Funds will be used for pest and invasive species management and maintenance of recreation features.
IA	MVD	ENS, FDRR, REC	RED ROCK DAM AND LAKE RED ROCK, IA	\$5,178,000	\$5,178,000	\$2,275,000	\$7,453,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including to install permanent exterior lighting and security cameras to ensure dam safety; development of plans and specifications for construction contract to repair concrete wall and apron (\$435,000).	Funds will be used for real estate boundary and flowage easement inspection; monitoring and maintenance and operations of recreation areas; to replace the shower building at the North Overlook Campground and, provide electrical repairs required as a result of the March 2019 floods.
IA	MVD	ENS, FDRR, REC, WTR	SAYLORVILLE LAKE, IA	\$5,762,000	\$5,762,000	\$323,680	\$6,085,680	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including completion of plans and specifications for emergency bulkhead procurement (\$100,000).	Funds will be used for real estate boundary and flowage easement inspection; pest and invasive species management; monitoring and maintenance; and, public safety and visitor assistance activities.
ID	NWD	ENS, JOINT, REC	ALBENI FALLS DAM, ID	\$1,179,000	\$1,179,000	\$123,000	\$1,302,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bank stabilization (\$8,000) and boundary and flowage easement surveying and maintenance (\$2,000). As a multiple purpose project with power, the budgeted amount for the project includes \$100,000 for commonly performed O&M jointly used by multiple business lines: NAV – 50% and FRM – 50%.	Funds will be used for maintenance of recreation features.
ID	NWD	ENS, JOINT, REC	DWORSHAK DAM AND RESERVOIR, ID	\$4,431,000	\$3,905,000		\$3,905,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$3,358,000 for commonly performed O&M jointly used by multiple business lines: NAV – 16% and FRM – 84%.	
ID	NWD	FDRR	INSPECTION OF COMPLETED WORKS, ID	3/	\$382,000		\$382,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
ID	NWD	ENS, FDRR, REC	LUCKY PEAK LAKE, ID	\$3,402,000	\$3,402,000		\$3,402,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including continued slide gate cylinder repair work (\$436,000); periodic inspections (\$295,000); a building energy audit (\$20,000); and, to install a new boundary fence to reduce encroachment (\$44,000).	
ID	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, ID	3/	\$721,000		\$721,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
IL	LRD	NHD	CALUMET HARBOR AND RIVER, IL & IN	\$2,630,000	\$2,630,000		\$2,630,000		Funds will be used for commonly performed operation and maintenance work. Funds will also be used for specific work activities including sediment management within the DMDF which will allow normal dredging/storage operations to continue (\$636,000); repair to a 500-foot section of the harbor shore arm, stabilizing the degraded timber crib with grout fill (\$1,572,000); environmental permit update (\$42,000).	
IL	MVD	ENS, FDRR, REC, WTR	CARLYLE LAKE, IL	\$5,737,000	\$5,737,000	\$414,000	\$6,151,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including implementation of modern geospatial data and system technologies (\$5,000).	Funds will be used for real estate boundary line invasive species management, monument replacement and encroachment resolution and operation and maintenance of visitor centers.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
IL	LRD	NHD	CHICAGO HARBOR, IL	\$3,080,000	\$3,080,000	\$5,865,000	\$8,945,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including multi-beam survey of the lock chamber and gate bays to check on possible movement of floor slabs and stability blocks (\$15,000), Emergency Action Plan update (\$10,000), hydrosurvey of lock chamber (\$11,000), annual dam safety monitoring (\$30,000) and dam safety training for Chicago district technical staff (\$5,000).	Funds will be used for minimum security compliance; a sector gate reliability study and lock chamber wall resurfacing.
IL	LRD	FDRR	CHICAGO RIVER, IL	\$612,000	\$612,000		\$612,000		Funds will be used for commonly performed O&M work.	
IL	LRD	ENR	CHICAGO SANITARY AND SHIP CANAL DISPERSAL BARRIER, IL	\$13,943,000	\$13,943,000	\$500,000	\$14,443,000	6	Funds will be used for operation and maintenance of the entire electric dispersal barriers system (Barriers I, IIA, & IIB) and backup generators, including project management, contracting, environmental support, site security, cybersecurity, utility bills, vehicles, labor, and clearing and trimming of vegetation along the Des Plaines River barrier as well as ongoing telemetry work to verify the effectiveness of the barriers and to optimize their operation.	Funds will be used for barrier optimization research.
IL	MVD	ENS, FDRR	FARM CREEK RESERVOIRS, IL	\$537,000	\$537,000	\$57,000	\$594,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities to conduct a periodic inspection and operational condition assessment of the project (\$85,000) and real estate and legal costs to research titles, establish property line and needed coordination to sell the unneeded property (\$100,000).	Funds will be used for pest and invasive species management and Farmdale boundary and flowage easement monumentation.
IL	MVD	ENS, NIH, REC	ILLINOIS WATERWAY (MVR PORTION), IL & IN	\$78,968,000	\$78,968,000	\$8,753,000	\$87,788,000	4	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging; Major Maintenance at LaGrange L/D, installation of bulkhead recesses at both Brandon Road and Dresden Island L/Ds, and procure miter gates for Brandon Road and Dresden Island L/Ds (\$58,702,000).	Funds will be used for Lagrange lock and dam major maintenance; Dresden lock and dam bulkhead recesses rehabilitation; and supervision and administration of previously awarded contracts for Marseilles Bulkhead Recesses and Peoria Base Wall Repair.
IL	MVD	NIH	ILLINOIS WATERWAY (MVR PORTION), IL & IN			\$30,000		5		Funds will be used for supervision and administration of a previously awarded contract for Culvert Valves and Valve Cylinders.
IL	MVD	ENS, REC	ILLINOIS WATERWAY (MVR PORTION), IL & IN			\$37,000		6		Funds will be used for pest and invasive species management and maintenance of Visitor Centers.
IL	MVD	ENS, NIH	ILLINOIS WATERWAY (MVS PORTION), IL & IN	\$2,065,000	\$2,065,000	\$45,000	\$2,110,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,350,000).	Funds will be used for boundary maintenance.
IL	LRD, MVD	FDRR	INSPECTION OF COMPLETED WORKS, IL	3/	\$2,397,000		\$2,397,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
IL	MVD	ENS, NIL, REC	KASKASKIA RIVER NAVIGATION, IL	\$2,228,000	\$2,228,000	\$1,000,000	\$3,278,000	5	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging to less than authorized channel width at the mouth to support current levels of service for existing traffic levels (\$325,000).	Funds will be used for dredging activities required as a result of the 2019 storm damages.
IL	MVD	ENS, NIL, REC	KASKASKIA RIVER NAVIGATION, IL			\$50,000		6		Funds will be used for pest and invasive species management.
IL	LRD	NHD	LAKE MICHIGAN DIVERSION, IL	\$860,000	\$860,000		\$860,000		Funds will be used for commonly performed O&M work.	
IL	MVD	ENS, FDRR, REC, WTR	LAKE SHELBYVILLE, IL	\$5,161,000	\$5,161,000	\$913,000	\$6,074,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including implementation of modern geospatial data and system technologies (\$5,000).	Funds will be used for pest and invasive species management; real estate boundary and flowage easement inspection, monitoring and maintenance; and, maintenance of visitor centers and recreation features.
IL	MVD	ENS, NIH, REC	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVR PORTION), IL	\$50,759,000	\$50,759,000	\$510,000	\$52,544,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging from Lock 11 to 22; planning, survey, and monitoring actions associated with dredge placement sites; actions to acquire and manage real estate associate (\$4,570,000) and resolution of 5 major house/living space encroachments, associated minor encroachments, and trespasses (\$100,000).	Funds will be used for dredging activities.
IL	MVD	NIH	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVR PORTION), IL			\$1,075,000		4		Funds will be used for supervision and administration of a previously awarded contracts for Lock and Dam 11 Relief Wells, Lock and Dam 15 Guidewall and Lock and Dam 20 Anchorage System.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
IL	MVD	REC	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVR PORTION), IL			\$200,000		6		Funds will be used to replace the shower building at Clark's Ferry Campground.
IL	MVD	ENS, NIH, REC	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVS PORTION), IL	\$25,159,417	\$25,159,000	\$2,000,000	\$27,605,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities to include effort to support current levels of service for existing traffic levels, engineering during construction of previously awarded contracts at Lock 24, 25 and Mel Price, and inspections of hydraulic steel structures at Lock 24, 25 and Mel Price (\$7,718,000).	Funds will be used for dredging activities required as a result of the 2019 storm damages.
IL	MVD	ENS, REC	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVS PORTION), IL			\$446,000		6		Funds will be used for cultural resource site monitoring and protection; real estate boundary monumentation, rectification and maintenance; and operation and maintenance of visitor centers and recreation features.
IL	LRD	NHD	PROJECT CONDITION SURVEYS, IL	3/	\$75,000		\$75,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
IL	MVD	ENS, FDRR, REC, WTR	REND LAKE, IL	\$5,133,000	\$5,133,000	\$990,000	\$6,123,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including surveying costs to replace missing monuments and correct boundary line issues related to missing monuments and posts (\$50,000) and performing a sedimentation study in accordance with the Water Supply Contract with the State of Illinois (\$130,000).	Funds will be used for pest and invasive species boundary maintenance; public safety operation; and, operation and maintenance of recreation features.
IL	LRD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, IL	3/	\$709,000		\$709,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
IL	LRD	NHD	WAUKEGAN HARBOR, IL	\$1,489,000	\$1,489,000		\$1,489,000		Funds will be used for specific work activities including dredging of approximately 80,000 cubic yards of shoaling from the approach channel to restore minimum functional depth (\$1,372,000).	
IN	LRD	ENS, FDRR, REC, WTR	BROOKVILLE LAKE, IN	\$5,583,700	\$5,584,000		\$5,584,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including repairing leaking seals on main emergency gates (\$110,000); riprapping upstream side of dam (\$3,878,700); pollinator habitat establishment (\$24,000); and, a freshwater mussel survey (\$5,000).	
IN	LRD	NHD	BURNS WATERWAY HARBOR, IN	\$4,335,000	\$4,335,000		\$4,335,000		Funds will be used for commonly performed operation and maintenance work. Funds will also be used for specific work activities including dredging approximately 70,000 cubic yards within the approach channel area (\$1,263,000) and riprapping placement in the harbor arms to control erosion from prop wash and stabilize deep scour holes at the head of the north breakwater (\$2,878,000).	
IN	LRD	ENS, FDRR, REC	CAGLES MILL LAKE, IN	\$1,218,000	\$1,218,000		\$1,218,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including threatened and endangered species surveys (\$5,000).	
IN	LRD	ENS, FDRR, REC	CECIL M HARDEN LAKE, IN	\$1,203,000	\$1,203,000		\$1,203,000		Funds will be used for commonly performed O&M work.	
IN	LRD	NHD	INDIANA HARBOR, IN	\$8,352,000	\$8,352,000		\$8,352,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dam safety training and inspection (\$67,000) and removing 60,000 CY of Non-TSCA sediment at the harbor entrance (\$3,250,000).	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
IN	LRD	FDRR	INSPECTION OF COMPLETED WORKS, IN	3/	\$985,000		\$985,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
IN	LRD	ENS, FDRR, REC	J EDWARD ROUSH LAKE, IN	\$1,866,000	\$1,866,000	\$5,000	\$1,871,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$15,000) and installation of a safety railing (\$60,000).	Funds will be used for pest and invasive species management.
IN	LRD	ENS, FDRR, REC	MISSISSINEWA LAKE, IN	\$2,298,000	\$2,298,000	\$5,000	\$2,303,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including retreat channel bank stabilization (\$535,000).	Funds will be used for pest and invasive species management.
IN	LRD	ENS, FDRR, REC, WTR	MONROE LAKE, IN	\$1,433,000	\$1,329,000		\$1,329,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of "J" seals on the maintenance bulkhead (\$150,000).	
IN	LRD	ENS, FDRR, REC, WTR	PATOKA LAKE, IN	\$1,371,000	\$1,211,000		\$1,211,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including repairs to wet wells in the control tower (\$200,000) and cultural resources site monitoring and protection (\$10,000).	
IN	LRD	NHS	PROJECT CONDITION SURVEYS, IN	3/	\$152,000		\$152,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
IN	LRD	ENS, FDRR, REC	SALAMONIE LAKE, IN	\$2,213,000	\$2,213,000	\$2,748,000	\$4,961,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of 20 ton hoist in control tower (\$580,000).	Funds will be used for pest and invasive species management and repair of the Retreat Channel, toe drain and supporting structures.
IN	LRD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, IN	3/	\$141,000		\$141,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
KS	NWD	ENS, FDRR, REC, WTR	CLINTON LAKE, KS	\$3,531,000	\$3,531,000	\$250,000	\$3,781,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including the inspection and repairs on the Emergency and Service Sluice Gates Hydraulic Steel Structure (\$1,000,000) and repair of concrete gutters on downstream abutments (\$65,000).	Funds will be used for maintenance of recreation features.
KS	SWD	ENS, FDRR, REC, WTR	COUNCIL GROVE LAKE, KS	\$2,183,000	\$2,183,000		\$2,183,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including preparing plans and specifications for repairs to the dam embankment (\$120,000); preparing plans and specifications to paint the spillway bridge superstructure (\$65,000); preparation of a bridge load rating and crane placement plan (\$100,000); and, updating the project Master Plan (\$300,000).	
KS	SWD	ENS, FDRR, REC, WTR	EL DORADO LAKE, KS	\$948,000	\$948,000		\$948,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including revising the project Master Plan (\$300,000).	
KS	SWD	ENS, FDRR, REC, WTR	ELK CITY LAKE, KS	\$1,508,000	\$1,508,000		\$1,508,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including preparation of a bridge load rating and crane placement plan (\$100,000) and updating the project Master Plan (\$300,000).	
KS	SWD	ENS, FDRR, REC	FALL RIVER LAKE, KS	\$1,302,000	\$1,302,000		\$1,302,000		Funds will be used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
KS	NWD	ENS, FDRR, REC, WTR	HILLSDALE LAKE, KS	\$1,222,000	\$1,222,000	\$9,000	\$1,231,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a periodic assessment (\$100,000); a periodic inspection (\$100,000); and, an operational condition assessment (\$20,000).	Funds will be used for pest and invasive species management and native grass restoration for pollinator health.
KS	NWD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, KS	3/	\$0	\$8,000	\$8,000	6		Funds will be used to conduct annual inspections of completed environmental projects and notify sponsors of corrective actions required as described in the project operation and maintenance manual.
KS	SWD	FDRR	INSPECTION OF COMPLETED WORKS, KS	3/	\$1,617,000		\$1,617,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
KS	SWD	ENS, FDRR, REC, WTR	JOHN REDMOND DAM AND RESERVOIR, KS	\$1,879,000	\$1,879,000		\$1,879,000		Funds will be used for commonly performed O&M work.	
KS	NWD	ENS, FDRR, REC, WTR	KANOPOLIS LAKE, KS	\$5,799,000	\$3,005,000	\$104,000	\$3,109,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including silt and rock removal (\$4,000,000); boundary inspection and marking (\$21,000); and, continuation of a water reallocation study (\$25,000).	Funds will be used for pest and invasive species management.
KS	SWD	ENS, FDRR, REC, WTR	MARION LAKE, KS	\$2,290,000	\$2,290,000		\$2,290,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including preparing an update to the project Master Plan (\$300,000).	
KS	NWD	ENS, FDRR, REC, WTR	MELVERN LAKE, KS	\$3,021,000	\$3,021,000	\$309,000	\$3,330,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including an operational condition assessment (\$20,000); a bridge and underwater inspection (\$26,000); a periodic assessment (\$100,000); a periodic inspection (\$100,000); boundary monumentation and rectification for environmental stewardship (\$50,000); and, continuation of a water reallocation study (\$300,000).	Funds will be used for management of cultural resources; pest and invasive species management; and, operation of recreation features.
KS	NWD	ENS, FDRR, REC, WTR	MILFORD LAKE, KS	\$2,775,000	\$2,775,000		\$2,775,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a relief well rejuvenation (\$300,000).	
KS	SWD	ENS, FDRR, REC, WTR	PEARSON - SKUBITZ BIG HILL LAKE, KS	\$1,457,000	\$1,457,000		\$1,457,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including repairing service gates (\$55,000) and boundary line fencing (\$25,000).	
KS	NWD	ENS, FDRR, REC, WTR	PERRY LAKE, KS	\$2,822,000	\$2,874,000		\$2,874,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a bridge inspection (\$3,000); a relief well rejuvenation (\$120,000); and, boundary maintenance tree and vegetation removal (\$52,000).	
KS	NWD	ENS, FDRR, REC, WTR	POMONA LAKE, KS	\$2,560,000	\$2,560,000		\$2,560,000		Funds will be used for commonly performed O&M work.	
KS	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, KS	3/	\$686,000		\$686,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
KS	SWD	ENS, FDRR, REC, WTR	TORONTO LAKE, KS	\$729,000	\$729,000		\$729,000		Funds will be used for commonly performed O&M work.	
KS	NWD	ENS, FDRR, REC, WTR	TUTTLE CREEK LAKE, KS	\$2,711,000	\$2,711,000		\$2,711,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a periodic inspection preparation (\$20,000), a periodic assessment (\$20,000), management of threatened and endangered species (\$15,000), and a spillway gate shaft alignment (\$350,000).	
KS	NWD	ENS, FDRR, REC	WILSON LAKE, KS	\$1,800,000	\$1,800,000	\$300,000	\$2,100,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including an operational condition assessment (\$20,000) and a periodic inspection (\$100,000).	Funds will be used for operation of recreation features.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
KY	LRD	ENS, HYD, JOINT, NIH, REC, WTR	BARKLEY DAM AND LAKE BARKLEY, KY & TN	\$11,091,000	\$11,091,000	\$5,406,800	\$19,385,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a shoreline management plan update (\$30,000) and operational management plan update (\$25,000) and a water availability study (\$30,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,014,000 for commonly performed O&M jointly used by multiple business lines: HYD – 6%, NAV – 68%, and FRM – 26%.	Funds will be used to replace intake and spillway crane.
KY	LRD	ENS, HYD, JOINT, NIH, REC, WTR	BARKLEY DAM AND LAKE BARKLEY, KY & TN			\$2,887,200		6		Funds will be used to replace intake and spillway crane; replace the sewer line at the Old Kuttawa Recreation Area; and repair a campground wastewater/septic system.
KY	LRD	ENS, FDRR, REC, WTR	BARREN RIVER LAKE, KY	\$4,087,000	\$4,087,000		\$4,087,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including installing a new liner inside the bypass elbow (\$163,000); boundary surveying and rectification (\$300,000); endangered mussel monitoring (\$34,000); and, mussel surveys (\$15,000).	
KY	LRD	NHS	BIG SANDY HARBOR, KY	\$2,054,000	\$2,054,000		\$2,054,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$2,034,000).	
KY	LRD	ENS, FDRR, REC	BUCKHORN LAKE, KY	\$2,299,000	\$2,299,000	\$125,000	\$2,424,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a migratory waterfowl survey (\$6,000).	Funds will be used for piezometer installation and replacement.
KY	LRD	ENS, FDRR, REC, WTR	CARR CREEK LAKE, KY	\$2,382,000	\$2,422,000	\$44,000	\$2,466,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections and evaluations (\$9,000); replacement of a corroded and compromised metal culvert pipe (\$450,000); timberland habitat improvement for threatened and endangered bats (\$8,000); and, a water reallocation study (\$40,000).	Funds will be used for pest and invasive species management.
KY	LRD	ENS, FDRR, REC, WTR	CAVE RUN LAKE, KY	\$1,551,000	\$1,551,000		\$1,551,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including installation of new ladder sections in control tower (\$32,000); continuation of rip rap replacement in the retreat channel (\$60,000); developing reservoir eco-curves (\$10,000); and, a master plan update (\$275,000).	
KY	LRD	ENS, FDRR, REC	DEWEY LAKE, KY	\$1,956,000	\$1,956,000	\$30,000	\$1,986,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activity including completing a Historic Properties Management Plan (\$71,000).	Funds will be used for maintenance of recreation features.
KY	MVD	NHS	ELVIS STAHR (HICKMAN) HARBOR, KY	\$935,000	\$935,000		\$935,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$920,000).	
KY	LRD	ENS	FALLS OF THE OHIO NATIONAL WILDLIFE, KY & IN	\$29,000	\$29,000		\$29,000		Funds will be used for commonly performed O&M work.	
KY	LRD	ENS, FDRR, REC	FISHTRAP LAKE, KY	\$2,719,000	\$2,719,000	\$588,000	\$3,307,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activity to repair spalling concrete on tainter gate abutments (\$550,000).	Funds will be used for real estate boundary monumentation and rectification.
KY	LRD	ENS, FDRR, REC, WTR	GRAYSON LAKE, KY	\$2,000,000	\$2,000,000		\$2,000,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities to repair and replace security fencing (\$55,000) and to complete a water reallocation study (\$250,000).	
KY	LRD	ENS, NIL	GREEN AND BARREN RIVERS, KY	\$2,797,000	\$2,797,000		\$2,797,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including an OCA inspection at Green River Lock and Dam 1 & 2 (\$24,000) and a lighting upgrade at Green River Lock 2 (\$100,000).	
KY	LRD	ENS, FDRR, REC, WTR	GREEN RIVER LAKE, KY	\$3,295,000	\$3,455,000		\$3,455,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including replacing multi-level assemblies (\$570,000) and replacing elevator electrical components (\$160,000).	
KY	LRD	FDRR	INSPECTION OF COMPLETED WORKS, KY	3/	\$887,000		\$887,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
KY	LRD	NIL	KENTUCKY RIVER, KY	\$217,000	\$217,000		\$217,000		\$200,000 of the funds provided in FY 2020 will be used to dispose of Kentucky Locks 1 through 4 to the Kentucky River Authority, which currently manages locks and dams 5 through 14, per the recommended plan included in the Corps' March 2018 Kentucky Locks and Dams 1, 2, 3, and 4 Disposition Study. \$17,000 will be used for commonly performed O&M work.	
KY	LRD	ENS, HYD, JOINT, REC, WTR	LAUREL RIVER LAKE, KY	\$2,441,000	\$2,441,000		\$2,441,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including initiation of a second water reallocation study (\$30,000). As a multiple purpose project with power, the budgeted amount for the project includes \$694,000 for commonly performed O&M jointly used by multiple business lines: HYD – 24% and REC – 76%.	
KY	LRD	ENS, FDRR, REC, WTR	MARTINS FORK LAKE, KY	\$1,734,000	\$1,734,000		\$1,734,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a master plan update (\$150,000) and boundary surveying and rectification (\$150,000).	
KY	LRD	FDRR	MIDDLESBORO CUMBERLAND RIVER BASIN, KY	\$273,000	\$273,000		\$273,000		Funds will be used for commonly performed O&M work.	
KY	LRD	ENS, FDRR, REC, WTR	NOLIN LAKE, KY	\$3,203,000	\$3,203,000	\$34,000	\$3,237,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including repairing dam screens (\$175,000).	Funds will be used for pest and invasive species management.
KY	LRD	ENS, NIH	OHIO RIVER LOCKS AND DAMS, KY, IL, IN & OH	\$50,577,000	\$50,577,000	\$900,000	\$52,077,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a periodic inspection of Cannelton Locks and Dam (\$80,000); surveys at Cannelton Locks and Dam (\$30,000); installation of lower miter gate at north chamber McAlpine Locks and Dam (\$16,550,000); installation of replacement miter gate and culvert valve cylinders at Smithland Locks and Dam (\$300,000); periodic inspection of JT Myers Locks and Dam (\$80,000); surveys of JT Myers Locks and Dam (\$30,000); periodic inspection of Olmsted Locks and Dam (\$120,000); surveys of Olmsted Locks and Dam (\$30,000); repair of mooring bitt tracks at JT Myers Locks and Dam (\$4,800,000); replacement of tainter gate cable connections at JT Myers Locks and Dam (\$1,850,000); and replacement of tainter gate cable connections at Smithland Locks and Dam (\$1,300,000).	Funds will be used to maintain the dam and facility for navigation purposes.
KY	LRD	ENS, NIH	OHIO RIVER LOCKS AND DAMS, KY, IL, IN & OH			\$600,000		4		Funds will be used for electrical system rehabilitation of the John T. Myers Lock and Dam.
KY	LRD	NIH	OHIO RIVER OPEN CHANNEL WORK, KY, IL, IN, OH, PA & WV	\$6,891,000	\$6,891,000		\$6,891,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$6,028,000) and environmental support to dredging activities (\$72,000).	
KY	LRD	ENS, FDRR, REC, WTR	PAINTSVILLE LAKE, KY	\$1,362,000	\$1,362,000	\$741,000	\$2,103,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a periodic inspection (\$26,000), steel structure inspections (\$4,000), and an environmental compliance (ERGO) inspection (\$5,000).	Funds will be used for the master plan update and real estate boundary monumentation and rectification.
KY	LRD	NIH	PROJECT CONDITION SURVEYS, KY	3/	\$5,000		\$5,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
KY	LRD	ENS, FDRR, REC, WTR	ROUGH RIVER LAKE, KY	\$3,404,000	\$3,404,000		\$3,404,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including resolution of real estate encroachments (\$200,000).	
KY	LRD	ENS, FDRR, REC	TAYLORSVILLE LAKE, KY	\$1,166,000	\$1,166,000		\$1,166,000		Funds will be used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
KY	LRD	ENS, HYD, JOINT, REC, WTR	WOLF CREEK DAM, LAKE CUMBERLAND, KY	\$10,647,000	\$10,647,000		\$10,647,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including an analysis of hydropower operational data (\$25,000); boundary surveying and rectification (\$175,000); and, continuation of a water supply reallocation study (\$100,000). As a multiple purpose project with power, the budgeted amount for the project includes \$2,688,000 for commonly performed O&M jointly used by multiple business lines: HYD – 44% and FRM – 56%. Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a monumentation survey (\$40,000) and a periodic inspection (\$70,000).	
KY	LRD	ENS, FDRR, REC, WTR	YATESVILLE LAKE, KY	\$1,689,000	\$1,689,000		\$1,689,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$47,000), cleaning and painting selective withdrawal gates (\$165,000), replace sewer lines at maintenance compound (\$110,000), and cost saving measures of replacing/installing LED lighting in visitor information center/office, shop and intake (\$22,000).	
LA	MVD	FDRR, NHD	ATCHAFALAYA RIVER AND BAYOUS CHENE, BOEUF & BLACK, LA	\$8,484,000	\$8,484,000	\$10,000,000	\$18,484,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$8,000,000).	Funds will be used for dredging activities required due to the November 2018 flood event.
LA	MVD	ENS, FDRR, REC	BAYOU BODCAU RESERVOIR, LA	\$1,209,000	\$1,209,000		\$1,209,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including periodic inspection surveys and design of outlet works dewatering wells, collector ditch, and drilling plan development (\$175,000) and implementation of the Master Plan including NEPA, inspect boundaries and flowage easement lands in Arkansas (\$85,000).	
LA	MVD	NHS	BAYOU LAFOURCHE AND LAFOURCHE JUMP WATERWAY, LA	\$850,000	\$850,000		\$850,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$650,000).	
LA	MVD	FDRR	BAYOU PIERRE, LA	\$33,000	\$33,000		\$33,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including to administer herbicide to control the growth of woody vegetation that may reduce water flows within the channel (\$10,000).	
LA	MVD	NHS	BAYOU SEGNETTE WATERWAY, LA	\$10,000	\$10,000		\$10,000		Funds will be used for commonly performed O&M work.	
LA	MVD	NHS	BAYOU TECHE AND VERMILION RIVER, LA	\$30,000	\$30,000		\$30,000		Funds will be used for commonly performed O&M work.	
LA	MVD	NHS	BAYOU TECHE, LA	\$60,000	\$60,000		\$60,000		Funds will be used for commonly performed O&M work.	
LA	MVD	FDRR, REC	CADDO LAKE, LA	\$218,000	\$218,000		\$218,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including water control manual update (\$25,000).	
LA	MVD	NHD	CALCASIEU RIVER AND PASS, LA	\$17,400,000	\$17,400,000	\$10,000,000	\$28,496,425	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$15,500,000).	Funds will be used for additional dredging in support of the Gulf Regional Demonstration Program.
LA	MVD	NHD	CALCASIEU RIVER AND PASS, LA			\$1,096,425		3		Donor and Energy Transfer Port.
LA	MVD	NHS	CHEFUNCTE RIVER & BOGUE FALIA, LA	\$20,000	\$20,000		\$20,000		Funds will be used for commonly performed O&M work.	
LA	MVD	NHS	FRESHWATER BAYOU, LA	\$1,800,000	\$1,800,000		\$1,800,000		Funds will be used for commonly performed O&M work.	
LA	MVD	FDRR, NIH, REC	GULF INTRACOASTAL WATERWAY, LA	\$16,018,000	\$16,018,000	\$100,000	\$16,118,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$4,500,000).	Funds will be used for supervision and administration of previously awarded contract for the IHNC Floating Gated Wall.
LA	MVD	NHD	HOUMA NAVIGATION CANAL, LA	\$1,050,000	\$1,050,000	\$4,000,000	\$5,050,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$850,000).	Funds will be used for navigation dredging required as a result of Tropical Storm Barry.
LA	MVD	FDRR	INSPECTION OF COMPLETED WORKS, LA	3/	\$1,330,000		\$1,330,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
LA	MVD	ENS, NIL, REC	J BENNETT JOHNSTON WATERWAY, LA	\$8,436,000	\$8,436,000	\$3,250,000	\$11,771,000	5	Funds will be used for commonly performed O&M work.	Funds will be used for dredging activities.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
LA	MVD	REC	J BENNETT JOHNSTON WATERWAY, LA			\$85,000		6		Funds will be used for operation and maintenance of visitor centers.
LA	MVD	NHS	LAKE PROVIDENCE HARBOR, LA	\$30,000	\$30,000		\$30,000		Funds will be used for commonly performed O&M work.	
LA	MVD	NHD	MERMENTAU RIVER, LA	\$1,800,000	\$1,800,000	\$9,600,000	\$11,400,000	2	Funds will be used for commonly performed O&M work.	Funds will be used for maintenance for navigation and dredging.
LA	MVD	NHS	MISSISSIPPI RIVER OUTLETS AT VENICE, LA	\$1,350,000	\$1,350,000		\$1,350,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,100,000).	
LA	MVD	NHD	MISSISSIPPI RIVER, BATON ROUGE TO THE GULF OF MEXICO, LA	\$91,970,000	\$91,970,000	\$154,088,500	\$249,912,075	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$87,970,000).	Funds will be used for 2018 flood event maintenance for navigation at Southwest Pass Foreshore Protection and Jetty Repairs and dredging to include additional dredging in support of the Gulf Regional Demonstration Program.
LA	MVD	NHD	MISSISSIPPI RIVER, BATON ROUGE TO THE GULF OF MEXICO, LA			\$3,853,575		3		Donor and Energy Transfer Port.
LA	MVD	NHS	PROJECT CONDITION SURVEYS, LA	3/	\$25,000		\$25,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
LA	MVD	NHD	REMOVAL OF AQUATIC GROWTH, LA	\$200,000	\$200,000		\$200,000		Funds will be used for commonly performed O&M work.	
LA	MVD	FDRR, REC	WALLACE LAKE, LA	\$267,000	\$267,000		\$267,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including periodic inspection surveys (\$25,000).	
LA	MVD	NHS	WATERWAY FROM EMPIRE TO THE GULF, LA	\$20,000	\$20,000		\$20,000		Funds will be used for commonly performed O&M work.	
LA	MVD	NHS	WATERWAY FROM INTRACOASTAL WATERWAY TO BAYOU DULAC, LA	\$10,000	\$10,000		\$10,000		Funds will be used for commonly performed O&M work.	
MA	NAD	ENS, FDRR, REC	BARRE FALLS DAM, MA	\$1,140,000	\$1,140,000		\$1,140,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$25,000), periodic inspections (\$95,000), and update emergency action plan (\$27,000).	
MA	NAD	ENS, FDRR, REC	BIRCH HILL DAM, MA	\$1,196,000	\$1,196,000		\$1,196,000		Funds will be used for commonly performed O&M work for flood risk management. Funds will also be used for specific work activities including electrical repairs at gate house (\$210,000).	
MA	NAD	NHD	BOSTON HARBOR, MA	\$0	\$0	\$500,000	\$500,000	2		Funds will be used for maintenance surveys and additional permitting requirements.
MA	NAD	ENS, FDRR, REC	BUFFUMVILLE LAKE, MA	\$1,141,000	\$1,141,000		\$1,141,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including conducting required periodic inspection (\$95,000), update emergency action plan (\$27,000), hydraulic steel structure inspection (\$30,000) and upgrade electrical services in gate tower and office (\$200,000).	
MA	NAD	ENS, NHD, REC	CAPE COD CANAL, MA	\$11,905,000	\$11,905,000		\$11,905,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including conducting required bridge inspections (\$1,000,000), light pole rehabilitation (\$2,077,000), and acquiring diesel marine engines to replace existing engines (\$360,000).	
MA	NAD	ENS, FDRR, REC	CHARLES RIVER NATURAL VALLEY STORAGE AREA, MA	\$402,000	\$402,000		\$402,000		Funds will be used for commonly performed O&M work.	
MA	NAD	ENS, FDRR, REC	CONANT BROOK LAKE, MA	\$416,000	\$416,000		\$416,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including adding stone fill to existing erosion rills (\$55,000) and hydrographic survey of top of dam and dike (\$26,000).	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
MA	NAD	ENS, FDRR, REC	EAST BRIMFIELD LAKE, MA	\$1,024,000	\$1,024,000		\$1,024,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$10,000), periodic inspections (\$95,000), roof replacement gatehouse and generator building (\$85,000), update emergency action plan (\$27,000), and hydraulic steel structure inspection (\$30,000).	
MA	NAD	ENS, FDRR, REC	HODGES VILLAGE DAM, MA	\$1,221,000	\$1,221,000		\$1,221,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$4,000), periodic assessments (\$190,000), periodic inspections (\$70,000), hydraulic steel structure inspection (\$10,000), replace emergency generator and fuel tank (\$35,000), replace log boom logs and tile gauge (\$60,000) and install security gate and guardrail dam site (\$25,000).	
MA	NAD	NHS	HYANNIS HARBOR, MA	\$0	\$0	\$5,000,000	\$5,000,000	5		Funds will be used for navigation maintenance breakwater repairs.
MA	NAD	FDRR	INSPECTION OF COMPLETED WORKS, MA	3/	\$417,000		\$417,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
MA	NAD	ENS, FDRR, REC	KNIGHTVILLE DAM, MA	\$1,104,000	\$1,104,000		\$1,104,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including rehabilitating emergency gate (\$130,000) and replacing windows on dam gatehouse (\$105,000).	
MA	NAD	ENS, FDRR, REC, WTR	LITTLEVILLE LAKE, MA	\$832,000	\$832,000		\$832,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$10,000) and inundation map for Saddle Dike (\$20,000).	
MA	NAD	FDRC	NEW BEDFORD FAIRHAVEN AND ACUSHNET HURRICANE BARRIER, MA	\$915,000	\$915,000		\$915,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including repairing concrete stairs and lighting (\$405,000).	
MA	NAD	NHS	PROJECT CONDITION SURVEYS, MA	3/	\$1,050,000		\$1,050,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
MA	NAD	ENS, FDRR, REC	TULLY LAKE, MA	\$1,245,000	\$1,245,000		\$1,245,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$10,000); electrical repairs at gate house (\$125,000); and, to perform OCA/Recreation peer review (\$15,000).	
MA	NAD	NHS	WELLFLEET HARBOR, MA	\$5,000,000	\$5,000,000		\$5,000,000		Funds will be used for specific work activities including dredging (\$5,000,000).	
MA	NAD	ENS, FDRR, REC	WEST HILL DAM, MA	\$926,000	\$926,000		\$926,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including the West Hill Dam Gatehouse Electrical rehabilitation (60,000).	
MA	NAD	ENS, FDRR, REC	WESTVILLE LAKE, MA	\$1,284,000	\$1,284,000		\$1,284,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$15,000); periodic assessments (\$170,000); periodic inspections (\$140,000); and, repairs to Old South Street bridge (\$206,000).	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
MD	NAD	NHD	BALTIMORE HARBOR AND CHANNELS (50 FOOT), MD	\$20,400,000	\$20,400,000	\$4,950,000	\$25,350,000	3	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$19,300,000).	Donor and Energy Transfer Port.
MD	NAD	NHD	BALTIMORE HARBOR, MD (DRIFT REMOVAL)	\$565,000	\$565,000		\$565,000		Funds will be used for commonly performed O&M work.	
MD	NAD	FDRR	CUMBERLAND, MD AND RIDGELEY, WV	\$214,000	\$214,000		\$214,000		Funds will be used for commonly performed O&M work.	
MD	NAD	FDRR	INSPECTION OF COMPLETED WORKS, MD	3/	\$175,000		\$175,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
MD	NAD	ENS, FDRR, REC, WTR	JENNINGS RANDOLPH LAKE, MD & WV	\$4,382,000	\$4,382,000		\$4,382,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including an HSS inspection, tainter gate design documentation reports, and tainter gate plans and specs.	
MD	NAD	NHS	NANTICOKE RIVER NORTHWEST FORK, MD	\$3,000	\$3,000		\$3,000		Funds will be used for commonly performed O&M work.	
MD	NAD	NHS	OCEAN CITY HARBOR AND INLET AND SINEPUXENT BAY, MD	\$500,000	\$500,000		\$500,000		Funds will also be used for specific work activities including dredging (\$500,000).	
MD	NAD	NHS	POCOMOKE RIVER, MD	\$3,000	\$3,000		\$3,000		Funds will be used for commonly performed O&M work.	
MD	NAD	NHS	PROJECT CONDITION SURVEYS, MD	3/	\$500,000		\$500,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
MD	NAD	FDRR	SCHEDULING RESERVOIR OPERATIONS, MD	3/	\$164,000		\$164,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
MD	NAD	NHS	WICOMICO RIVER, MD	\$4,025,000	\$4,025,000		\$4,025,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$4,000,000).	
ME	NAD	NHD	DISPOSAL AREA MONITORING, ME	\$1,050,000	\$1,050,000		\$1,050,000		Funds will be used for commonly performed O&M work.	
ME	NAD	FDRR	INSPECTION OF COMPLETED WORKS, ME	3/	\$108,000		\$108,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
ME	NAD	NHS	PROJECT CONDITION SURVEYS, ME	3/	\$1,000,000		\$1,000,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
ME	NAD	NHD	SEARSPORT HARBOR, ME	\$0	\$0	\$175,000	\$175,000	2		Funds will be used for navigation maintenance environmental coordination and survey requirements.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
ME	NAD	FDR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, ME	3/	\$30,000		\$30,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
ME	NAD	NHS	UNION RIVER, ME	\$250,000	\$250,000	\$742,000	\$992,000	5	Funds will be used for commonly performed O&M work.	Funds will be used for the development of the dredge material management plan.
ME	NAD	NHS	WELLS HARBOR, ME	\$0	\$0	\$500,000	\$500,000	5		Funds will be used for navigation dredging activities.
ME	NAD	NHS	WOOD ISLAND AT BIDDEFORT, ME	\$0	\$0	\$534,000	\$534,000	5		Funds will be used for navigation dredging mitigation activities.
MI	LRD	NHD	CHANNELS IN LAKE ST CLAIR, MI	\$192,000	\$192,000		\$192,000		Funds will be used for commonly performed O&M work.	
MI	LRD	ENS, NHD	DETROIT RIVER, MI	\$6,003,000	\$6,003,000		\$6,003,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging activities (\$2,000,000) and strike removal (\$2,800,000).	
MI	LRD	ENS, NHD	GRAND HAVEN HARBOR, MI	\$619,000	\$619,000		\$619,000		Funds will be used for commonly performed O&M work. Funds will be used for specific work activities including dredging (\$600,000).	
MI	LRD	NHD	HOLLAND HARBOR, MI	\$0	\$0	\$700,000	\$700,000	2		Funds will be used for the Outer Harbor dredging activities.
MI	LRD	FDRR	INSPECTION OF COMPLETED WORKS, MI	3/	\$267,000		\$267,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
MI	LRD	ENS, NHD, REC	KEWEENAW WATERWAY, MI	\$35,000	\$35,000		\$35,000		Funds will be used for commonly performed O&M work.	
MI	LRD	NHD	MANISTEE HARBOR, MI	\$0	\$0	\$500,000	\$500,000	2		Funds will be used to repair the South Breakwater Connector.
MI	LRD	NHD	MANISTIQUE HARBOR, MI	\$0	\$0	\$1,300,000	\$1,300,000	2		Funds will be used for the Inner and Outer Harbor dredging activities.
MI	LRD	NHD	MONROE HARBOR, MI	\$0	\$0	\$1,330,000	\$1,330,000	2		Funds will be used for the Outer Harbor dredging activities.
MI	LRD	NHD	ONTONAGON HARBOR, MI	\$0	\$0	\$1,100,000	\$1,100,000	2		Funds will be used for the Outer Harbor dredging activities.
MI	LRD	NHS	PROJECT CONDITION SURVEYS, MI	3/	\$530,000		\$530,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
MI	LRD	NHD	SAGINAW RIVER, MI	\$2,747,000	\$2,747,000		\$2,747,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$2,000,000) and ground water sampling at the Upper Saginaw DMDF (\$330,000).	
MI	LRD	FDRR	SEBEWAING RIVER, MI	\$60,000	\$60,000		\$60,000		Funds will be used for commonly performed O&M work.	
MI	LRD	NHD	ST CLAIR RIVER, MI	\$1,572,000	\$1,572,000		\$1,572,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$800,000) and strike removal (\$570,000).	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
MI	LRD	ENS, HYD, JOINT, NHD, REC	ST MARYS RIVER, MI	\$34,714,000	\$34,714,000	\$14,506,000	\$51,320,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work to include replacement of the control room HVAC system (\$85,000); repair of concrete spalling of main unit spiral cases (\$2,700,000); repair/refurbishment of the powerhouse crane (\$500,000); strike removal (\$3,460,000); and, the second phase of repairs to the Poe Lock Gate 1 (\$2,600,000). As a multiple purpose project with power, the budgeted amount for the project includes \$3,005,000 for commonly performed O&M jointly used by multiple business lines: HYD – 10%, NAV – 89% and BEC – 1%	Funds will be used for dam safety for navigation instrumentation, data collection and analysis, formal periodic inspection, assessment and reports; dredge material management and placement preparation; acquisition of the Aquadigger to replace the derrick barge Nicolet; Poe Lock Gate 1 repair; Soo Locks asset renewal for crane barge Harvey replacement; removal of red tagged stiff leg derrick cranes; and, roof replacement at Soo Locks Davis building and boat house.
MI	LRD	HYD	ST MARYS RIVER, MI			\$2,100,000		6		Funds will be used to replace medium voltage circuit breaker.
MI	LRD	FDR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, MI	3/	\$2,890,000		\$2,890,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
MN	MVD	ENS, FDRR	BIGSTONE LAKE - WHETSTONE RIVER, MN & SD	\$254,000	\$254,000		\$254,000		Funds will be used for commonly performed O&M work.	
MN	LRD	ENS, NHD, REC	DULUTH - SUPERIOR HARBOR, MN & WI	\$5,870,000	\$5,870,000	\$10,000,000	\$15,870,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,000,000) and navigation structure repairs (\$1,376,000).	Funds will be used for navigation maintenance North Pier repairs and Government Vessel Yard slip repairs.
MN	MVD	FDRR	INSPECTION OF COMPLETED WORKS, MN	3/	\$526,000		\$526,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
MN	MVD	ENS, FDRR, REC	LAC QUI PARLE LAKES, MINNESOTA RIVER, MN	\$1,239,000	\$1,239,000		\$1,239,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including Master Plan update to four Western Flood Control Projects to align project goals & priorities through a watershed based approach (\$300,000).	
MN	MVD	ENS, NIH, REC	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVP PORTION), MN	\$54,752,000	\$54,752,000	\$300,000	\$55,579,000	4	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including environmental compliance activities that are required to dredge to the current level of performance; dredging related surveys required for current level of performance; Periodic Inspection and Report for Lower St. Anthony Falls Locks and Dams on the Upper Mississippi River Waterway (\$15,142,000); and, development of a watershed master plan that will address common Corps natural resource management objectives on the entire Upper Mississippi River (\$300,000).	Funds will be used for navigation maintenance supervision and administration of previously awarded contract for the traveling keel system at Lock 6.
MN	MVD	ENS, NIH, REC	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVP PORTION), MN			\$527,000		6		Funds will be used for a cultural resources plan and real estate boundary surveying and rectification.
MN	MVD	ENS, FDRR, REC	ORWELL LAKE, MN	\$519,000	\$519,000		\$519,000		Funds will be used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
MN	MVD	NHS	PROJECT CONDITION SURVEYS, MN	3/	\$84,000		\$84,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
MN	MVD	ENS, FD RR	RED LAKE RESERVOIR, MN	\$195,000	\$195,000		\$195,000		Funds will be used for commonly performed O&M work.	
MN	MVD	ENS, FD RR, REC	RESERVOIRS AT HEADWATERS OF MISSISSIPPI RIVER, MN	\$4,436,000	\$4,436,000	\$7,520,000	\$11,956,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities for initiating plans and specifications to stabilize Gull Lake embankment (\$250,000).	Funds will be used for pest and invasive species management and the Sand Dam rehabilitation.
MN	LRD, MVD	FD RC	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, MN	3/	\$530,000		\$530,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
MN	MVD	NHD	TWO HARBORS, MN	\$1,000,000	\$1,000,000		\$1,000,000		Funds will be used for specific work activities including to repair concrete cap joints and ice plates using Government Equipment.	
MO	MVD	NHS	CARUTHERSVILLE HARBOR, MO	\$15,000	\$15,000		\$15,000		Funds will be used for commonly performed O&M work.	
MO	MVD	ENS, FD RR, HYD, JOINT, REC, WTR	CLARENCE CANNON DAM AND MARK TWAIN LAKE, MO	\$6,786,000	\$6,786,000	\$4,750,000	\$11,536,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including periodic inspection of Clarence Cannon Dam, Re-Regulation Dam and appurtenant structures (\$75,000). Inspection of Hydraulic Steel Structures, includes Main Dam and Re-Regulation Dam Tainter Gates (\$45,000). Inspection of Clarence Cannon Main Dam Spillway Bridge (\$67,000). Inspection of Clarence Cannon Visitor Center Pedestrian Bridge (\$10,000). Conducting an emergency action plan exercise (\$14,000). As a multiple purpose project with power, the budgeted amount for the project includes \$892,000 for commonly performed O&M jointly used by multiple business lines: FRM - 60%, EN - 3%, WS - 7% and REC - 30 %.	Funds will be used for cultural resource site monitoring and protection and Indian Creek Group Use Campground electrical upgrades.
MO	SWD	ENS, FD RR, REC	CLEARWATER LAKE, MO	\$3,487,000	\$3,487,000		\$3,487,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including repairing foundation bedrock and right abutment of spillway (\$100,000), conducting an erodibility study (\$200,000), and periodic inspections of public vehicular and pedestrian bridges (\$55,000).	
MO	NWD	ENS, HYD, JOINT, REC, WTR	HARRY S TRUMAN DAM AND RESERVOIR, MO	\$11,262,000	\$11,262,000	\$410,000	\$11,672,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including boundary inspection and maintenance (\$105,000). As a multiple purpose project with power, the budgeted amount for the project includes \$2,637,000 for commonly performed O&M jointly used by multiple business lines: HYD - 21%, FRM - 50%, EN - 16%, and REC - 13%. Funds will also be used for specific work activities including a foundation drain cleaning (\$125,000).	Funds will be used for operation and maintenance of visitor centers.
MO	NWD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, MO	3/	\$0	\$2,000	\$2,000	6		Funds will be used to conduct annual inspections of completed environmental projects and notify sponsors of corrective actions required as described in the project operation and maintenance manual.
MO	MVD	FD RR	INSPECTION OF COMPLETED WORKS, MO	3/	\$949,000		\$949,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
MO	NWD	ENS, FD RR, REC	LITTLE BLUE RIVER LAKES, MO	\$1,410,000	\$1,410,000		\$1,410,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including the emergency drawdown gate hydraulic cylinder repair (\$320,000), a bridge inspection (\$18,000), and a periodic assessment (\$25,000).	
MO	NWD	ENS, FD RR, REC, WTR	LONG BRANCH LAKE, MO	\$888,000	\$888,000		\$888,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a negotiation letter (\$60,000).	
MO	MVD	ENS, FD RR, NIH, REC	MISSISSIPPI RIVER BETWEEN THE OHIO AND MISSOURI RIVERS (REG WORKS), MO & IL	\$25,045,000	\$25,045,000		\$25,045,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging, dike and revetment repairs, lock modification and maintenance (\$12,600,000).	
MO	MVD	NHS	NEW MADRID COUNTY HARBOR, MO	\$10,000	\$10,000		\$10,000		Funds will be used for specific work activities to determine channel condition and identify navigation hazards (\$10,000).	
MO	MVD	NHS	NEW MADRID HARBOR, MO (MILE 889)	\$15,000	\$15,000		\$15,000		Funds will be used for commonly performed O&M work.	
MO	NWD	ENS, FD RR, REC, WTR	POMME DE TERRE LAKE, MO	\$2,822,000	\$2,822,000	\$30,000	\$2,852,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a completion of a water reallocation study (\$100,000).	Funds will be used for pest and invasive species management.
MO	NWD	NIH	PROJECT CONDITION SURVEYS, MO	3/	\$5,000		\$5,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
MO	NWD	FD RR	SCHEDULING RESERVOIR OPERATIONS, MO	3/	\$181,000		\$181,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
MO	NWD	ENS, FD RR, REC, WTR	SMITHVILLE LAKE, MO	\$3,600,000	\$3,600,000	\$50,000	\$3,650,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a bridge safety maintenance gutter system (\$40,000), a stability analysis (\$300,000), a modification of a stilling basin wall drain system (\$1,500,000), and a replacement of water up valves (\$30,000).	Funds will be used for pest and invasive species management.
MO	MVD	NHS	SOUTHEAST MISSOURI PORT, MISSISSIPPI RIVER, MO	\$9,000	\$9,000		\$9,000		Funds will be used for commonly performed O&M work.	
MO	NWD	ENS, HYD, JOINT, REC, WTR	STOCKTON LAKE, MO	\$4,773,000	\$4,773,000		\$4,773,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$1,561,000 for commonly performed O&M jointly used by multiple business lines: HYD – 0.04%, FRM – 69.93%, and REC – 30.03%.	
MO	SWD	ENS, FD RR, HYD, JOINT, REC, WTR	TABLE ROCK LAKE, MO & AR	\$9,979,000	\$9,979,000	\$475,000	\$10,454,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including riprap placement (\$110,000) and hydropower operational data analysis (\$25,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,160,000 for commonly performed O&M jointly used by multiple business lines: HYD – 73% and FRM – 27%.	Funds will be used for operation and maintenance of visitor centers and sedimentation resurvey.
MS	SAD	FD RR	EAST FORK, TOMBIGBEE RIVER, MS	\$290,000	\$290,000		\$290,000		Funds will be used for commonly performed O&M work.	
MS	SAD	NHD	GULFPORT HARBOR, MS	\$4,355,000	\$4,355,000	\$5,130,000	\$9,485,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$4,280,000).	Funds will be used for dredging activities.
MS	MVD, SAD	FD RR	INSPECTION OF COMPLETED WORKS, MS	3/	\$109,000		\$109,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
MS	MVD	NHS	MOUTH OF YAZOO RIVER, MS	\$307,000	\$307,000	\$23,000	\$330,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$277,000).	Funds will be used for dredging activities.
MS	SAD	ENS, FDRR, REC, WTR	OKATIBBEE LAKE, MS	\$1,716,000	\$1,716,000		\$1,716,000		Funds will be used for commonly performed O&M work.	
MS	SAD	NHD	PASCAGOULA HARBOR, MS	\$3,860,000	\$3,860,000	\$1,700,000	\$5,560,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,683,000).	Funds will be used for dredging activities.
MS	MVD	NIL	PEARL RIVER, MS & LA	\$140,000	\$140,000		\$140,000		Funds will be used for commonly performed O&M work.	
MS	MVD	NIH	PROJECT CONDITION SURVEYS, MS	3/	\$5,000		\$5,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
MS	SAD	NIH	PROJECT CONDITION SURVEYS, MS	3/	\$150,000		\$150,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
MS	MVD	NHS	ROSEDALE HARBOR, MS	\$35,000	\$35,000		\$35,000		Funds will be used for commonly performed O&M work.	
MS	SAD	NHS	WATER/ENVIRONMENTAL CERTIFICATION, MS	\$0	\$0	\$40,000	\$40,000	5		Funds will be used for water quality certification requirements.
MS	MVD	NHS	YAZOO RIVER, MS	\$111,400	\$111,000	\$39,000	\$150,000	5	Funds will be used for commonly performed O&M work.	Funds will be used for navigation maintenance clearing and snagging activities.
MT	NWD	ENS, JOINT, REC, WTR	FT PECK DAM AND LAKE, MT	\$5,744,000	\$5,744,000		\$5,744,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$3,597,000 for commonly performed O&M jointly used by multiple business lines: HYD – 44%, NAV – 24%, and FRM – 32%. Funds will also be used for specific work activities including routine bridge inspections (\$38,000) and to conduct NDT testing on flood control facilities, stop-fogs, and emergency gates (\$40,000).	
MT	NWD	FDRR	INSPECTION OF COMPLETED WORKS, MT	3/	\$588,000		\$588,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
MT	NWD	ENS, JOINT, REC	LIBBY DAM, MT	\$2,213,000	\$2,213,000	\$84,000	\$2,297,000	6	Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$1,495,000 for commonly performed O&M jointly used by multiple business lines: FRM – 100%. Funds will also be used for specific work activities to include NEPA analysis of the Columbia River Basin Operations (\$108,000); design for spillway gate and hoist rehab (\$76,000); electronic security system (\$55,000); design for sluice gate and cylinder rehab (\$54,000); and sluice gate controls installation (\$5,000).	Funds will be used for operation and maintenance of visitor centers.
MT	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, MT	3/	\$126,000		\$126,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
NC	SAD	NIL	ATLANTIC INTRACOASTAL WATERWAY, NC	\$2,155,000	\$2,155,000	\$4,050,000	\$6,205,000	5	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,575,000).	Funds will be used for dredging activities.
NC	SAD	ENS, FDRR, REC, WTR	B EVERETT JORDAN DAM AND LAKE, NC	\$1,912,000	\$1,912,000		\$1,912,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including the survey and repairs to Jordan Dam Saddle Dike (\$90,000).	
NC	SAD	NHS, REC	CAPE FEAR RIVER ABOVE WILMINGTON, NC	\$495,000	\$495,000		\$495,000		Funds will be used for commonly performed O&M work.	
NC	SAD	ENS, FDRR, REC, WTR	FALLS LAKE, NC	\$1,777,000	\$1,777,000		\$1,777,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspect and repair of Emergency Gate Lifting System (\$95,000).	
NC	SAD	FDRR	INSPECTION OF COMPLETED WORKS, NC	3/	\$190,000		\$190,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NC	SAD	NHS	MANTEO (SHALLOWBAG) BAY, NC	\$806,000	\$806,000		\$806,000		Funds will be used for commonly performed O&M work.	
NC	SAD	NHS	MASONBORO INLET AND CONNECTING CHANNELS, NC	\$25,000	\$25,000		\$25,000		Funds will be used for commonly performed O&M work.	
NC	SAD	NHD	MOREHEAD CITY HARBOR, NC	\$7,540,000	\$7,540,000	\$13,395,000	\$20,935,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$6,715,000).	Funds will be used for dredging activities to include Hurricane Dorian restoration efforts at Cut-off Range A and the Ocean Bar.
NC	SAD	NHS	NEW RIVER INLET, NC	\$30,000	\$30,000		\$30,000		Funds will be used for commonly performed O&M work.	
NC	SAD	NHD	PROJECT CONDITION SURVEYS, NC	3/	\$700,000		\$700,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
NC	SAD	NHS	ROLLINSON CHANNEL, NC	\$650,000	\$650,000		\$650,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$590,000).	
NC	SAD	NHS	SILVER LAKE HARBOR, NC	\$60,000	\$60,000		\$60,000		Funds will be used for commonly performed O&M work.	
NC	SAD	ENS, FDRR, REC, WTR	W KERR SCOTT DAM AND RESERVOIR, NC	\$3,351,000	\$3,351,000		\$3,351,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including Dam safety periodic inspection (\$60,000) and perform non-destructive testing on 8 Fracture critical weld sites. (\$180,000).	
NC	SAD	NHD	WILMINGTON HARBOR, NC	\$16,560,000	\$16,560,000	\$15,725,000	\$32,285,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$15,560,000).	Funds will be used for dredging activities to include Hurricane Dorian restoration efforts at Anchorage Basin and Bald Head III Reach.
ND	NWD	ENS, FDRR, REC	BOWMAN HALEY, ND	\$317,000	\$317,000		\$317,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including: periodic assessment of Bowman-Haley Dam (\$80,000).	
ND	NWD	ENS, FDRR, HYD, JOINT, REC, WTR	GARRISON DAM, LAKE SAKAKAWEA, ND	\$16,001,000	\$16,001,000	\$550,000	\$16,551,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a periodic assessment for Williston Levees (\$80,000) and analysis for hydropower operational data (\$25,000). As a multiple purpose project with power, the budgeted amount for the project includes \$5,437,000 for commonly performed O&M jointly used by multiple business lines: HYD – 44%, NAV – 24%, and FRM – 32%. Funds will also be used for specific work activities including a spillway stop log inspection (\$17,000) and spillway gate fitness for service analysis and testing (\$90,000).	Funds will be used for bank stabilization repair of Government Bay Archaeological site.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
ND	MVD	ENS, FDRR	HOMME LAKE, ND	\$352,000	\$352,000	\$14,000	\$366,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for pest and invasive species management.
ND	MVD	FDRR	INSPECTION OF COMPLETED WORKS, ND	3/	\$512,000		\$512,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
ND	MVD	ENS, FDRR, REC	LAKE ASHTABULA AND BALDHILL DAM, ND	\$1,588,000	\$1,588,000		\$1,588,000		Funds will be used for commonly performed O&M work.	
ND	NWD	ENS, FDRR, REC	PIPESTEM LAKE, ND	\$706,000	\$706,000		\$706,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a periodic inspection of Pipestem Dam (\$50,000), surveys in support of the periodic inspection (\$40,000), and a bridge inspection (\$38,000).	
ND	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, ND	3/	\$124,000		\$124,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
ND	MVD	FDRR	SOURIS RIVER, ND	\$386,000	\$386,000		\$386,000		Funds will be used for commonly performed O&M work.	
ND	MVD	FDRC	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, ND	3/	\$160,000		\$160,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
NE	NWD	ENS, HYD, JOINT, REC, WTR	GAVINS POINT DAM, LEWIS AND CLARK LAKE, NE & SD	\$10,083,000	\$10,083,000		\$10,083,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including routine bridge inspections (\$39,000) and Master Plan compliance (\$174,000). As a multiple purpose project with power, the budgeted amount for the project includes \$4,187,000 for commonly performed O&M jointly used by multiple business lines: HYD – 44%, NAV – 24%, and FRM – 32%. Funds will also be used for specific work activities including a dam survey in support of the 2021 periodic inspection (\$50,000).	
NE	NWD	ENS, FDRR, REC	HARLAN COUNTY LAKE, NE	\$2,514,000	\$2,514,000	\$445,000	\$2,959,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including an operational condition assessment (\$20,000), a bridge inspection (\$25,000), a periodic assessment (\$100,000), a periodic inspection (\$100,000), and a stilling basin dewatering (\$100,000).	Funds will be used for pest and invasive species management; dam safety foundation drain cleaning; and, sewage lagoon design, specifications and construction.
NE	NWD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, NE	3/	\$0	\$3,000	\$3,000	6		Funds will be used to conduct annual inspections of completed environmental projects and notify sponsors of corrective actions required as described in the project operation and maintenance manual.
NE	NWD	FDRR	INSPECTION OF COMPLETED WORKS, NE	3/	\$1,222,000		\$1,222,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NE	NWD	FDRR	MISSOURI RIVER - KENSLERS BEND, NE TO SIOUX CITY, IA	\$113,000	\$113,000		\$113,000		Funds will be used for commonly performed O&M work.	
NE	NWD	ENS, FDRR, REC	PAPILLION CREEK, NE	\$962,000	\$962,000		\$962,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a dam safety survey (\$35,000); a periodic inspection report (\$50,000); and, a regional Master Plan (\$58,000).	
NE	NWD	ENS, FDRR, REC	SALT CREEKS AND TRIBUTARIES, NE	\$1,142,000	\$1,142,000	\$400,000	\$1,542,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including periodic inspections for Sites 2 and 18 (\$70,000) and surveys in support of the 2021 periodic inspections (\$45,000).	Funds will be used for supervision and administration of previously awarded contract for construction of Outlet Conduit Seepage Filters - Yankee Hill and Twin Lakes.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
NH	NAD	ENS, FDRR, REC	BLACKWATER DAM, NH	\$1,020,000	\$1,020,000		\$1,020,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including resealing downstream training wall (\$60,000), hydraulic pump controllers (\$40,000), and ROV survey of upstream side of gates (\$17,000).	
NH	NAD	ENS, FDRR, REC	EDWARD MACDOWELL LAKE, NH	\$888,000	\$888,000		\$888,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including electrical work in gatehouse (\$28,000) and replace furnace at gate house (\$15,000).	
NH	NAD	ENS, FDRR, REC	FRANKLIN FALLS DAM, NH	\$1,157,000	\$1,157,000		\$1,157,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including upgrading project office heating system (\$20,000), install fall protection in gatehouse (\$75,000), and service bridge-southwest fascia repair (\$200,000).	
NH	NAD	ENS, FDRR, REC	HOPKINTON - EVERETT LAKES, NH	\$2,015,000	\$2,015,000		\$2,015,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including video inspection of conduit (Everett Dam) (\$77,000), update emergency action plan (\$42,000), hydraulic analysis of BCCMP (Everett Dam) (\$7,000), and repainting gates & gate structures & replace hydraulic cylinder packings at Everett (\$159,000).	
NH	NAD	FDRR	INSPECTION OF COMPLETED WORKS, NH	3/	\$70,000		\$70,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NH	NAD	ENS, FDRR, REC	OTTER BROOK LAKE, NH	\$899,000	\$899,000		\$899,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including main electrical panel replacement in gatehouse (\$25,000), number one flood gate stem repair in gatehouse (\$10,000), and gatehouse roof fall protection railing (\$13,000).	
NH	NAD	NOTH	PROJECT CONDITION SURVEYS, NH	3/	\$300,000		\$300,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
NH	NAD	NHS	RYE HARBOR, NH	\$200,000	\$200,000	\$3,800,000	\$4,000,000	5	Funds will be used for commonly performed O&M work.	Funds will be used for dredging activities.
NH	NAD	ENS, FDRR, REC	SURRY MOUNTAIN LAKE, NH	\$932,000	\$932,000	\$70,000	\$1,002,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$10,000), ROV Survey of Upstream side of gates (\$30,000), generator replacement (\$45,000), and replace office roof (\$10,000).	Funds will be used for replacement generator.
NJ	NAD	NHS	BARNEGAT INLET, NJ	\$9,000	\$9,000	\$470,000	\$479,000	5	Funds will be used for commonly performed O&M work.	Funds will be used for dredging activities.
NJ	NAD	NHS	CHEESEQUAKE CREEK, NJ	\$50,000	\$50,000	\$4,100,000	\$4,150,000	1	Funds will be used for commonly performed O&M work.	Funds will be used for dredging activities.
NJ	NAD	NHD	COLD SPRING INLET, NJ	\$20,000	\$20,000		\$20,000		Funds will be used for commonly performed O&M work.	
NJ	NAD	NHD	DELAWARE RIVER AT CAMDEN, NJ	\$15,000	\$15,000		\$15,000		Funds will be used for commonly performed O&M work.	
NJ	NAD	NHD	DELAWARE RIVER, PHILADELPHIA TO THE SEA, NJ, PA & DE	\$32,358,000	\$32,358,000	\$8,725,000	\$41,083,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$26,273,000).	Funds will be used for dredging activities and dredge material disposal facility maintenance.
NJ	NAD	FDRR	INSPECTION OF COMPLETED WORKS, NJ	3/	\$559,000		\$559,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NJ	NAD	NHS	MANASQUAN RIVER, NJ	\$432,000	\$432,000		\$432,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including and dredging (\$410,000).	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
NJ	NAD	NHS	NEW JERSEY INTRACOASTAL WATERWAY, NJ	\$895,000	\$895,000		\$895,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities to include dredging (\$795,000).	
NJ	NAD	NHD	NEWARK BAY, HACKENSACK AND PASSAIC RIVERS, NJ	\$16,600,000	\$16,600,000		\$16,600,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$16,000,000).	
NJ	NAD	FDRR	PASSAIC RIVER FLOOD WARNING SYSTEMS, NJ	\$668,000	\$668,000		\$668,000		Funds will be used for commonly performed O&M work, including maintenance and repair of existing stream and rain gauges to ensure they are fully functional and reporting accurate data for use by Emergency Management Offices and the public. Funds will also be used for interagency coordination.	
NJ	NAD	NHD	PROJECT CONDITION SURVEYS, NJ	3/	\$2,494,000		\$2,494,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
NJ	NAD	NHD	RARITAN RIVER, NJ	\$50,000	\$50,000		\$50,000		Funds will be used for commonly performed O&M work.	
NJ	NAD	NHS	SALEM RIVER, NJ	\$100,000	\$100,000	\$338,000	\$438,000	5	Funds will be used for commonly performed O&M work.	Funds will be used for dredging activities.
NJ	NAD	NHS	SANDY HOOK BAY AT LEONARD, NJ	\$10,000	\$10,000		\$10,000		Funds will be used for commonly performed O&M work.	
NJ	NAD	NHS	SHOAL HARBOR AND COMPTON CREEK, NJ	\$25,000	\$25,000		\$25,000		Funds will be used for commonly performed O&M work.	
NJ	NAD	NHS	SHREWSBURY RIVER, MAIN CHANNEL, NJ	\$25,000	\$25,000		\$25,000		Funds will be used for commonly performed O&M work.	
NM	SPD	ENS, FDRR, REC, WTR	ABIQUIU DAM, NM	\$3,330,000	\$3,330,000		\$3,330,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including design work to address float well and vent pipe repairs (\$125,000); concrete line the outlet channels for the toe drain and south adit flumes (\$120,000); repair damaged/crumbling shotcrete above the north adit entrance (\$165,000); and, replace and re-survey six flumes and install additional concrete lining of approach and exit channels (\$65,000).	
NM	SPD	ENS, FDRR, REC	COCHITI LAKE, NM	\$4,188,000	\$4,188,000		\$4,188,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including wiring and phones upgrades (\$200,000) and service and emergency gate repairs (\$590,000).	
NM	SPD	ENS, FDRR, REC	CONCHAS LAKE, NM	\$4,446,000	\$4,446,000		\$4,446,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including completing design and award of Irrigation Headworks erosion control-North side (\$90,000), Irrigation Headworks South Side erosion control design (\$750,000); repair expansion seals on bridge (\$120,000); re-seal main dam bridge deck (\$160,000); verify the model and update as needed (\$110,000); installation of a radio repeater/antenna (\$120,000); boundary line surveys, maintenance, and monitoring of boundary lines (\$260,000); and, to update the comprehensive Master Plan (\$259,000).	
NM	SPD	ENS, FDRR, REC	GALISTEO DAM, NM	\$1,075,000	\$1,075,000		\$1,075,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a perimeter fence replacement (\$220,000) and a perimeter fence replacement (\$180,000).	
NM	SPD	FDRR	INSPECTION OF COMPLETED WORKS, NM	3/	\$318,000		\$318,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NM	SPD	ENS, FDRR	JEMEZ CANYON DAM, NM	\$978,000	\$978,000		\$978,000		Funds will be used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
NM	SPD	FDRR	MIDDLE RIO GRANDE ENDANGERED SPECIES COLLABORATIVE PROGRAM, NM	\$1,190,000	\$1,190,000		\$1,190,000		Funds will be used for commonly performed operation and maintenance and specific work activities in order to continue collaborative efforts in conjunction with fifteen other agencies and stakeholders to accomplish activities described in the Congressional authority and the Program's Long Term Plan. These efforts include program support and project management; monitoring of completed habitat restoration projects; studying hydrologic effects of flood control structures through data analysis and sediment through field studies and monitoring; and execution of the adaptive management plan.	
NM	SPD	ENS, FDRR, REC	SANTA ROSA DAM AND LAKE, NM	\$1,830,000	\$1,830,000		\$1,830,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including the repair of gate seals (\$375,000).	
NM	SPD	FDRR	SCHEDULING RESERVOIR OPERATIONS, NM	3/	\$205,000		\$205,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
NM	SPD	ENS, FDRR, REC	TWO RIVERS DAM, NM	\$708,000	\$708,000		\$708,000		Funds will be used for commonly performed O&M work.	
NM	SPD	FDRR	UPPER RIO GRANDE WATER OPERATIONS MODEL STUDY, NM	\$1,315,000	\$1,315,000		\$1,315,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including to develop and enhance model rule set and database (\$364,000), and to facilitate model development and planning studies for water management in the Upper Rio Grande Basin (\$67,000).	
NV	SPD	FDRR	INSPECTION OF COMPLETED WORKS, NV	3/	\$70,000		\$70,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NV	SPD	ENS, FDRR, REC	MARTIS CREEK LAKE, NV & CA	\$1,332,000	\$1,332,000		\$1,332,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a Hydraulic Steel Structural Inspection (\$40,000).	
NV	SPD	ENS, FDRR	PINE AND MATHEWS CANYONS LAKES, NV	\$1,210,000	\$1,210,000		\$1,210,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a periodic inspection (\$187,000).	
NY	NAD	ENS, FDRR, REC	ALMOND LAKE, NY	\$826,000	\$826,000		\$826,000		Funds will be used for commonly performed O&M work and a periodic assessment and underwater inspection.	
NY	NAD	ENS, FDRR	ARKPORT DAM, NY	\$491,000	\$491,000		\$491,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a periodic inspection, an underwater inspection and an emergency exercise.	
NY	NAD	NHD	BAY RIDGE AND RED HOOK CHANNELS, NY	\$25,000	\$25,000		\$25,000		Funds will be used for commonly performed O&M work.	
NY	LRD	ENS, NHD	BLACK ROCK CHANNEL AND TONAWANDA HARBOR, NY	\$2,077,000	\$2,077,000	\$2,000,000	\$4,077,000	2	Funds will be used for commonly performed O&M work.	Funds will be used for navigation maintenance to replace the gate diagonal and pintle.
NY	NAD	NHS	BRONX RIVER, NY	\$30,000	\$30,000		\$30,000		Funds will be used for commonly performed O&M work.	
NY	NAD	NHS	BROWNS CREEK, NY	\$30,000	\$30,000		\$30,000		Funds will be used for commonly performed O&M work.	
NY	LRD	NHD	BUFFALO HARBOR, NY	\$0	\$250,000	\$3,700,000	\$3,950,000	2	Funds will also be used for specific work activities including development of a dredge material management plan (\$250,000).	Funds will be used for navigation maintenance to repair the confined disposal facility #4 exterior dike; prepare the Times Beach confined disposal facility report; and, evaluate the South and Old Breakwaters.
NY	NAD	NHD	BUTTERMILK CHANNEL, NY	\$30,000	\$30,000		\$30,000		Funds will be used for commonly performed O&M work.	
NY	NAD	NHD	EAST RIVER, NY	\$455,000	\$455,000		\$455,000		Funds will be used for commonly performed O&M work.	
NY	NAD	ENS, FDRR, REC	EAST SIDNEY LAKE, NY	\$685,000	\$685,000		\$685,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including four design documentation reports.	
NY	NAD	NHS	FIRE ISLAND INLET TO JONES INLET, NY	\$50,000	\$50,000		\$50,000		Funds will be used for commonly performed O&M work.	
NY	NAD	NHD	FLUSHING BAY AND CREEK, NY	\$280,000	\$280,000		\$280,000		Funds will be used for commonly performed O&M work.	
NY	NAD	NHS	GLEN COVE CREEK, NY	\$15,000	\$15,000		\$15,000		Funds will be used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
NY	NAD	NHS	GREAT KILLS HARBOR, NY	\$20,000	\$20,000		\$20,000		Funds will be used for commonly performed O&M work.	
NY	NAD	NHD	GREAT SODUS BAY HARBO, NY	\$0	\$0	\$4,500,000	\$4,500,000	2		Funds will be used for navigation maintenance to repair the East Breakwater.
NY	NAD	NHS	GREAT SOUTH BAY, NY	\$25,000	\$25,000		\$25,000		Funds will be used for commonly performed O&M work.	
NY	NAD	NHD	HUDSON RIVER CHANNEL, NY	\$50,000	\$50,000		\$50,000		Funds will be used for commonly performed O&M work.	
NY	NAD	NHD	HUDSON RIVER, NY (MAINT)	\$9,300,000	\$9,300,000		\$9,300,000		Funds will be used for commonly performed O&M work. Funds will be used for specific work activities including dredging (\$9,300,000).	
NY	NAD	NHD	HUDSON RIVER, NY (O & C)	\$1,350,000	\$1,350,000	\$1,100,000	\$2,450,000	1	Funds will be used for commonly performed O&M work.	Funds will be used for navigation lock operations.
NY	LRD	FDRR	INSPECTION OF COMPLETED WORKS, NY	3/	\$1,742,000		\$1,742,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NY	NAD	NHS	JONES INLET, NY	\$50,000	\$50,000		\$50,000		Funds will be used for commonly performed O&M work.	
NY	NAD	NHS	LAKE MONTAUK HARBOR, NY	\$50,000	\$50,000		\$50,000		Funds will be used for commonly performed O&M work.	
NY	NAD	NHS	MATTITUCK HARBOR, NY	\$15,000	\$15,000		\$15,000		Funds will be used for commonly performed O&M work.	
NY	LRD	ENS, FDRR, REC	MOUNT MORRIS DAM, NY	\$3,604,000	\$3,604,000	\$48,000	\$3,652,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including Dam Safety Periodic Inspection (\$65,000), and investigation, engineering and design into settlement and movement observed within penstock monoliths (\$85,000).	Funds will be used for pest and invasive species management and maintenance of Visitor Centers.
NY	NAD	NHD	NEW YORK AND NEW JERSEY CHANNELS, NY	\$14,100,000	\$14,100,000		\$14,100,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$13,800,000).	
NY	NAD	NHD	NEW YORK AND NEW JERSEY HARBOR, NY & NJ	\$16,200,000	\$16,200,000	\$6,000,000	\$27,700,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$16,000,000).	Funds will be used for dredging activities.
NY	NAD	NHD	NEW YORK AND NEW JERSEY HARBOR, NY & NJ			\$5,500,000		3		Donor and Energy Transfer Port.
NY	NAD	NHD	NEW YORK HARBOR, NY	\$6,965,000	\$6,965,000		\$6,965,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$4,250,000).	
NY	NAD	NHD	NEW YORK HARBOR, NY & NJ (DRIFT REMOVAL)	\$11,171,000	\$11,171,000		\$11,171,000		Funds will be used for commonly performed O&M work.	
NY	NAD	NHD	NEW YORK HARBOR, NY (PREVENTION OF OBSTRUCTIVE DEPOSITS)	\$1,748,000	\$1,748,000		\$1,748,000		Funds will be used for commonly performed O&M work.	
NY	NAD	NHS	PORTCHESTER HARBOR, NY	\$30,000	\$30,000		\$30,000		Funds will be used for commonly performed O&M work.	
NY	NAD	NHD	PROJECT CONDITION SURVEYS, NY	3/	\$2,602,000		\$2,602,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
NY	NAD	FDRR	SOUTHERN NEW YORK FLOOD CONTROL PROJECTS, NY	\$884,000	\$884,000		\$884,000		Funds will be used for commonly performed O&M work.	
NY	LRD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, NY	3/	\$780,000		\$780,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
NY	NAD	ENS, FDRR, REC	WHITNEY POINT LAKE, NY	\$943,000	\$943,000	\$500,000	\$1,443,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for dam safety deficiency remediation for flood risk management.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
OH	LRD	ENS, FDRR, REC, WTR	ALUM CREEK LAKE, OH	\$1,981,000	\$1,981,000	\$44,000	\$2,025,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activity including completing Survey Monument Markers (\$43,000) and completing a Historic Properties Management Plan (\$75,000).	Funds will be used for maintenance of recreation features.
OH	LRD	NHD	ASHTABULA HARBOR, OH	\$108,000	\$108,000	\$150,000	\$258,000	2	Funds will be used for commonly performed O&M work.	Funds will be used for navigation maintenance dredge material management plan.
OH	LRD	ENS, FDRR, REC, WTR	BERLIN LAKE, OH	\$2,762,000	\$2,762,000	\$632,000	\$3,394,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$25,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance and to replace the Mill Run Campground sewage ejector stations.
OH	LRD	ENS, FDRR, REC, WTR	CAESAR CREEK LAKE, OH	\$2,937,000	\$2,937,000		\$2,937,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections and evaluations (\$27,000); dewatering stilling basin (\$235,000); movement monument surveys (\$22,000); periodic inspection (\$150,000); solar power installation (\$183,000); bank stabilization (\$306,000); and endangered species habitat work (\$8,000).	
OH	LRD	ENS, FDRR, REC	CLARENCE J BROWN DAM, OH	\$1,481,000	\$1,481,000		\$1,481,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections and evaluations (\$18,000); movement monument surveys (\$22,000); and, a periodic inspection (\$70,000).	
OH	LRD	NHD	CLEVELAND HARBOR, OH	\$7,966,000	\$8,066,000	\$4,000,000	\$12,066,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$5,750,000); confined disposal facility activities (\$250,000); repairs to approximately 500 linear feet of the severely deteriorated West Breakwater (\$1,111,000); and development of a dredge material management plan (\$100,000).	Funds will be used for navigation dredging activities and to construct the Ease Breakwater west end section.
OH	LRD	NHD	CONNEAUT HARBOR, OH	\$1,216,000	\$1,216,000	\$127,000	\$1,343,000	2	Funds will be used for commonly performed operation and maintenance work. Funds will also be used for specific work activities including repairs to approximately 200 linear feet of the deteriorated West Breakwater (\$1,111,000) and sediment sampling (\$100,000).	Funds will be used for navigation maintenance dredge material management plan.
OH	LRD	ENS, FDRR, REC	DEER CREEK LAKE, OH	\$3,397,000	\$3,397,000	\$20,000	\$3,417,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including performing inspection activities (\$122,000); repairing and painting of tainter Gates (\$440,000); replacing service bridge deck (\$1,065,000); and, a master plan update (\$150,000).	Funds will be used for maintenance of recreation features.
OH	LRD	ENS, FDRR, REC	DELAWARE LAKE, OH	\$1,746,000	\$1,746,000	\$31,000	\$1,777,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activity including a Periodic Assessment (\$78,000).	Funds will be used for maintenance of recreation features.
OH	LRD	ENS, FDRR, REC	DILLON LAKE, OH	\$2,204,000	\$2,204,000		\$2,204,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including machine guarding (\$230,000); installation of gabion mesh on rock wall near outflow (\$127,000); and, a master plan update (\$150,000).	
OH	LRD	NHD	FAIRPORT HARBOR, OH	\$1,130,000	\$1,130,000	\$150,000	\$1,280,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including structure repair of approximately 200 foot of deteriorated sections of the East Breakwater (\$1,122,000).	Funds will be used for navigation maintenance dredge material management plan.
OH	LRD	NHD	HURON HARBOR, OH	\$0	\$0	\$38,500	\$38,500	2		Funds will be used for navigation maintenance dredge material management plan.
OH	LRD	FDRR	INSPECTION OF COMPLETED WORKS, OH	3/	\$590,000		\$590,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
OH	LRD	NHD	LORAIN HARBOR, OH	\$0	\$0	\$240,000	\$240,000	2		Funds will be used for navigation maintenance dredge material management plan and sediment sampling and analysis.
OH	LRD	FDRR	MASSILLON LOCAL PROTECTION PROJECT, OH	\$115,000	\$115,000		\$115,000		Funds will be used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
OH	LRD	ENS, FDRR, REC	MICHAEL J KIRWAN DAM AND RESERVOIR, OH	\$1,481,000	\$1,481,000	\$37,000	\$1,518,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including replacing the electric service to the control tower (\$71,000); resolution of encroachments (\$15,000); and, inspection activities (\$25,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance.
OH	LRD	ENS, FDRR, REC, WTR	MOSQUITO CREEK LAKE, OH	\$1,452,000	\$1,452,000	\$10,000	\$1,462,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$25,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance.
OH	LRD	ENS, FDRR, REC	MUSKINGUM RIVER LAKES, OH	\$12,459,000	\$12,459,000		\$12,459,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including performing inspection activities (\$562,000); replacing 2 of 6 dam sluice gates at Beach City (\$1,090,000); resurfacing, cleaning and painting Wills Creek Intake Service bridge (\$255,000); and, a master plan update (\$150,000).	
OH	LRD	ENS, FDRR, REC	NORTH BRANCH KOKOSING RIVER LAKE, OH	\$731,000	\$731,000		\$731,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activity including completing an Environmental Compliance (ERGO) inspection (\$6,000) and a master plan update (\$150,000).	
OH	LRD	FDRR	OHIO-MISSISSIPPI FLOOD CONTROL, OH	\$1,537,000	\$1,537,000		\$1,537,000		Funds will be used for commonly performed O&M work.	
OH	LRD	ENS, FDRR, REC, WTR	PAINT CREEK LAKE, OH	\$2,980,000	\$2,980,000		\$2,980,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activity including completing a Historic Properties Management Plan (\$25,000) and a master plan update (\$150,000).	
OH	LRD	NHD	PROJECT CONDITION SURVEYS, OH	3/	\$318,000		\$318,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
OH	LRD	FDRR	ROSEVILLE LOCAL PROTECTION PROJECT, OH	\$54,000	\$54,000		\$54,000		Funds will be used for commonly performed O&M work.	
OH	LRD	NHD	SANDUSKY HARBOR, OH	\$913,000	\$913,000	\$150,000	\$1,063,000	2	Funds will be used for commonly performed operation and maintenance work. Funds will also be used for specific work activities including dredging (\$880,000).	Funds will be used for navigation maintenance dredge material management plan.
OH	LRD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, OH	3/	\$300,000		\$300,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
OH	LRD	NHD	TOLEDO HARBOR, OH	\$4,659,000	\$4,659,000	\$2,983,000	\$7,642,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging of the Maumee River and Bay (\$4,000,000).	Funds will be used for navigation dredging activities; pre-design assessment of Island 18; and, dredge material management plan.
OH	LRD	ENS, FDRR, REC, WTR	TOM JENKINS DAM, OH	\$1,455,000	\$1,455,000		\$1,455,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including performing inspection activities (\$114,000); installation of facility physical security surveillance system (\$110,000); and, a master plan update (\$150,000).	
OH	LRD	NHD	VERMILION HARBOR, OH	\$0	\$0	\$3,070,000	\$3,070,000	2		Funds will be used for navigation dredging activities; engineering and design of East Pier repairs; and, sediment sampling and analysis.
OH	LRD	ENS, FDRR, REC	WEST FORK OF MILL CREEK LAKE, OH	\$1,202,000	\$1,202,000		\$1,202,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections and evaluations (\$9,000); movement monument surveys (\$22,000); periodic inspection and assessment (\$150,000); removing rock from spillway bucket (\$105,000); and, replacement of electronic security system (\$25,000).	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
OH	LRD	ENS, FDRR, REC, WTR	WILLIAM H HARSHA LAKE, OH	\$2,666,000	\$2,595,000		\$2,595,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a periodic inspection and reports (\$79,000); installing a sewage line to the municipal sewer to replace failing wastewater treatment plant; and, movement monument surveys (\$22,000).	
OK	SWD	ENS, FDRR, REC, WTR	ARCADIA LAKE, OK	\$507,000	\$507,000		\$507,000		Funds will be used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC	BIRCH LAKE, OK	\$1,111,000	\$1,111,000		\$1,111,000		Funds will be used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	BROKEN BOW LAKE, OK	\$3,897,000	\$3,897,000		\$3,897,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection and certification activities for load handling equipment (\$125,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,353,000 for commonly performed O&M jointly used by multiple business lines: FRM – 69%, REC – 23%, HYD – 7%, and EN – 1%. Funds will also be used for specific work activities including the preparation of the project portion of the Red River basin water control manual (\$100,000).	
OK	SWD	ENS, FDRR, REC, WTR	CANTON LAKE, OK	\$1,760,000	\$1,760,000		\$1,760,000		Funds will be used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC, WTR	COPAN LAKE, OK	\$1,172,000	\$1,172,000		\$1,172,000		Funds will be used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	EUFULA LAKE, OK	\$7,223,000	\$7,223,000		\$7,223,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection and certification activities for load handling equipment (\$125,000). As a multiple purpose project with power, the budgeted amount for the project includes \$703,000 for commonly performed O&M jointly used by multiple business lines: FRM – 67%, NAV – 18%, HYD – 14%, and EN – 1%.	
OK	SWD	ENS, FDRR, HYD, JOINT, REC	FORT GIBSON LAKE, OK	\$5,488,000	\$5,488,000	\$125,000	\$5,613,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection and certification activities for load handling equipment (\$125,000) and updating the project Shoreline Management Plan (\$500,000). As a multiple purpose project with power, the budgeted amount for the project includes \$717,000 for commonly performed O&M jointly used by multiple business lines: FRM – 52% and HYD – 48%.	Funds will be used for pest and invasive species management.
OK	SWD	ENS, FDRR, REC	FORT SUPPLY LAKE, OK	\$1,260,000	\$1,260,000		\$1,260,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including preparing plans and specifications to repair the spillway bridge (\$240,000).	
OK	SWD	ENS, FDRR, REC	GREAT SALT PLAINS LAKE, OK	\$343,000	\$343,000		\$343,000		Funds will be used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC, WTR	HEYBURN LAKE, OK	\$824,000	\$824,000		\$824,000		Funds will be used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC, WTR	HUGO LAKE, OK	\$1,939,000	\$1,939,000		\$1,939,000		Funds will be used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC, WTR	HULAH LAKE, OK	\$1,010,000	\$1,010,000		\$1,010,000		Funds will be used for commonly performed O&M work.	
OK	SWD	FDRR	INSPECTION OF COMPLETED WORKS, OK	3/	\$275,000		\$275,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
OK	SWD	ENS, FDRR, REC, WTR	KAW LAKE, OK	\$2,388,000	\$2,388,000	\$15,000	\$2,403,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for operation of water supply agreements.
OK	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	KEYSTONE LAKE, OK	\$5,043,000	\$5,043,000		\$5,043,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection and certification activities for load handling equipment (\$125,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,115,000 for commonly performed O&M jointly used by multiple business lines: FRM – 62%, NAV – 26%, HYD – 11%, and EN – 1%.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
OK	SWD	ENS, HYD, JOINT, NIH, REC	McCLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM, OK	\$19,187,000	\$19,187,000	\$4,512,880	\$23,699,880	4	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including conducting load handling equipment and below the hook certifications (\$250,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,708,000 for commonly performed O&M jointly used by multiple business lines: NAV – 62%, HYD – 32%, REC – 5%; and EN – 1% for Robert S. Kerr and NAV – 72%, HYD – 16%, REC – 11%, and EN – 1% for Webbers Falls.	Funds will be used for navigation maintenance design work to rehabilitate the tainter gates at Newt Graham Lock and Dam 18 and rehabilitate the Robert S. Kerr tainter gates.
OK	SWD	JOINT	McCLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM, OK			\$2,037,120		6		Funds will be used for navigation maintenance design work to rehabilitate the Robert S. Kerr tainter gates.
OK	SWD	ENS, FDRR, REC, WTR	OOLOGAH LAKE, OK	\$3,104,000	\$3,104,000	\$900,000	\$4,004,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including preparing an update to the Master Plan (\$400,000).	Funds will be used for shoreline protection requirements at Mitigation Site 34NW103.
OK	SWD	FDRR	OPTIMA LAKE, OK	\$95,000	\$95,000		\$95,000		Funds will be used for commonly performed O&M work.	
OK	SWD	FDRR	PENSACOLA RESERVOIR, LAKE OF THE CHEROKEES, OK	\$160,000	\$160,000		\$160,000		Funds will be used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC, WTR	PINE CREEK LAKE, OK	\$1,455,000	\$1,455,000		\$1,455,000		Funds will be used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC, WTR	SARDIS LAKE, OK	\$2,528,000	\$2,528,000	\$10,000	\$2,538,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including repairs to the emergency gate and wet well actuators (\$1,370,000).	Funds will be used for operation of water supply agreements.
OK	SWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, OK	3/	\$2,060,000		\$2,060,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
OK	SWD	ENS, FDRR, REC, WTR	SKIATOOK LAKE, OK	\$1,482,000	\$1,482,000		\$1,482,000		Funds will be used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	TENKILLER FERRY LAKE, OK	\$4,769,000	\$4,769,000	\$750,000	\$5,519,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection and certification activities for load handling equipment (\$125,000). As a multiple purpose project with power, the budgeted amount for the project includes \$614,000 for commonly performed O&M jointly used by multiple business lines: FRM – 65% and HYD -35%.	Funds will be used to design the replacement spillway bridge.
OK	SWD	ENS, FDRR, REC, WTR	WAURIKA LAKE, OK	\$1,604,000	\$1,604,000		\$1,604,000		Funds will be used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC, WTR	WISTER LAKE, OK	\$900,300	\$900,000		\$900,000		Funds will be used for commonly performed O&M work.	
OR	NWD	ENS, FDRR	APPLEGATE LAKE, OR	\$1,266,000	\$1,266,000		\$1,266,000		Funds will be used for commonly performed O&M work.	
OR	NWD	ENS, FDRR, REC, WTR	BLUE RIVER LAKE, OR	\$1,093,000	\$1,093,000	\$1,910,000	\$3,003,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including Generic Data Acquisition Control System (\$60,000) and Regulating Outlet Fence (\$37,000).	Funds will be used for Generic Data Acquisition System and to paint spillway gates.
OR	NWD	ENS, JOINT, NHD, REC	BONNEVILLE LOCK AND DAM, OR & WA	\$7,657,000	\$7,657,000	\$1,484,000	\$9,281,000	2	Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$4,184,000 for commonly performed O&M jointly used by multiple business lines: NAV – 100%	Funds will be used for navigation maintenance inspection of Navlock 1 Miter Gates Hydraulic Steel Structures; preparation of the Old Navlock Bridge design document report/major maintenance report; and, Bradford Island HTW- Sand Blast Area Analysis, Hot Spot Removal, and Geophysical Surveys.
OR	NWD	ENS, JOINT, NHD, REC	BONNEVILLE LOCK AND DAM, OR & WA			\$140,000		6		Funds will be used for operation of recreation features.
OR	NWD	NHS	CHETCO RIVER, OR	\$954,000	\$954,000	\$274,000	\$1,228,000	5	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$932,000).	Funds will be used for dredging activities.
OR	NWD	NHD	COLUMBIA RIVER AT THE MOUTH, OR & WA	\$23,759,000	\$23,759,000		\$23,759,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$22,684,000).	
OR	NWD	NHD	COOS BAY, OR	\$4,802,000	\$4,802,000	\$8,000,000	\$12,802,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$4,035,000).	Funds will be used for dredging activities.
OR	NWD	NHS	COQUILLE RIVER, OR	\$515,000	\$515,000	\$695,000	\$1,221,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging(\$485,000).	Funds will be used for dredging activities.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
OR	NWD	NHS	COQUILLE RIVER, OR			\$11,000		5		Funds will be used for dredging activities.
OR	NWD	ENS, FDRR, REC, WTR	COTTAGE GROVE LAKE, OR	\$1,516,000	\$1,516,000	\$130,000	\$1,646,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including environmental impact statement for NEPA compliance (\$59,000) and Generic Data Acquisition Control System (\$60,000).	Funds will be used for Generic Data Acquisition System.
OR	NWD	ENS, FDRR, JOINT, REC, WTR	COUGAR LAKE, OR	\$3,986,000	\$3,986,000		\$3,986,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$3,844,000 for commonly performed O&M jointly used by multiple business lines: NAV – 1%, FRM – 91%, and WS – 8%.	
OR	NWD	NHS	DEPOE BAY, OR	\$24,000	\$24,000	\$271,000	\$295,000	5	Funds will be used for commonly performed O&M work.	Funds will be used for dredging activities.
OR	NWD	ENS, JOINT, REC, WTR	DETROIT LAKE, OR	\$1,054,000	\$1,054,000		\$1,054,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$951,000 for commonly performed O&M jointly used by multiple business lines: NAV – 1%, FRM – 83%, and WS – 16%.	
OR	NWD	ENS, FDRR, REC, WTR	DORENA LAKE, OR	\$1,499,000	\$1,499,000	\$140,000	\$1,639,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including environmental impact statement for NEPA compliance (\$59,000) and Generic Data Acquisition Control System (\$60,000).	Funds will be used for Generic Data Acquisition System.
OR	NWD	ENS, FDRR	ELK CREEK LAKE, OR	\$305,000	\$305,000		\$305,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including Elk Creek boundary fence (\$135,000) and Western boundary fence installation (\$140,000).	
OR	NWD	ENS, FDRR, REC, WTR	FALL CREEK LAKE, OR	\$1,504,000	\$1,504,000	\$1,650,000	\$3,154,000	6	Funds will be used for commonly performed O&M work.	Funds will be used to paint spillway gates.
OR	NWD	ENS, FDRR, REC, WTR	FERN RIDGE LAKE, OR	\$2,078,000	\$2,078,000		\$2,078,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including Shoreline Management Plan Review and Update (\$41,000).	
OR	NWD	ENS, JOINT, REC, WTR	GREEN PETER - FOSTER LAKES, OR	\$2,631,000	\$2,631,000		\$2,631,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$2,119,000 for commonly performed O&M jointly used by multiple business lines: NAV – 1%, FRM – 87%, and WS – 12%. Funds will also be used for specific work activities including plans and specifications to replace water stops in main dam (\$87,000).	
OR	NWD	ENS, JOINT, REC, WTR	HILLS CREEK LAKE, OR	\$1,441,000	\$1,441,000		\$1,441,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$1,245,000 for commonly performed O&M jointly used by multiple business lines: NAV – 2%, FRM – 83%, and WS – 15%.	
OR	NWD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, OR	3/	\$0	\$30,000	\$30,000	6		Funds will be used to conduct annual inspections of completed environmental projects and notify sponsors of corrective actions required as described in the project operation and maintenance manual.
OR	NWD	FDRR	INSPECTION OF COMPLETED WORKS, OR	3/	\$1,001,000		\$1,001,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
OR	NWD	ENS, JOINT, NIH, REC	JOHN DAY LOCK AND DAM, OR & WA	\$5,964,000	\$5,964,000	\$400,000	\$6,364,000	4	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a boundary survey (\$69,000). As a multiple purpose project with power, the budgeted amount for the project includes \$3,465,000 for commonly performed O&M jointly used by multiple business lines: includes Joint activities, with a total allocation of \$3,465,000 shared between business lines as follows: NAV – 76% and FRM – 24%. Funds will also be used for specific work activities including security risk assessment (\$14,000).	Funds will be used navigation maintenance plans and specifications for the Navlock Tainter Valves.
OR	NWD	ENS, JOINT, REC, WTR	LOOKOUT POINT LAKE, OR	\$2,187,000	\$2,187,000		\$2,187,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$1,810,000 for commonly performed O&M jointly used by multiple business lines: NAV – 2%, FRM – 95%, and WS – 3%.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
OR	NWD	ENS, JOINT, REC, WTR	LOST CREEK LAKE, OR	\$3,862,000	\$3,862,000		\$3,862,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$3,171,000 for commonly performed O&M jointly used by multiple business lines: FRM – 46%, ENS – 23%, REC – 24%, and WS – 7%.	
OR	NWD	ENS, JOINT, NIH, REC	M McNARY LOCK AND DAM, OR & WA	\$8,682,000	\$9,904,000	\$578,000	\$10,482,000	4	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including continuing crack and structural repairs to the downstream miter gate (\$550,000) and periodic inspections (\$21,000). As a multiple purpose project with power, the budgeted amount for the project includes \$5,134,000 for commonly performed O&M jointly used by multiple business lines: NAV – 100%. Funds will also be used for specific work activities including the continued rehabilitation of eleven of the fifteen levee pumping plants (\$927,000); replace three ladder attraction water fish pumps (\$1,000,000); and connect the septic tanks to the city of Umatilla sewer system (\$374,000).	Funds will be used for navigation maintenance repairs to the McNary Navigation Lock Sump Unwatering system.
OR	NWD	NHS	NEHALEM BAY, OR	\$20,000	\$20,000		\$20,000		Funds will be used for commonly performed O&M work.	
OR	NWD	NHD	PORT ORFORD, OR	\$1,302,000	\$1,302,000		\$1,302,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,272,000).	
OR	NWD	NHS	PROJECT CONDITION SURVEYS, OR	3/	\$477,000		\$477,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
OR	NWD	NHS	ROGUE RIVER AT GOLD BEACH, OR	\$942,000	\$942,000	\$247,000	\$1,189,000	5	Funds will be used for specific work activities including dredging (\$942,000).	Funds will be used for development of navigation maintenance environmental site management and monitoring plan.
OR	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, OR	3/	\$100,000		\$100,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
OR	NWD	NHD	SIUSLAW RIVER, OR	\$975,000	\$975,000	\$1,300,000	\$3,424,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$945,000).	Funds will be used for dredging activities.
OR	NWD	NHD	SIUSLAW RIVER, OR			\$1,149,000		2		Funds will be used for dredging activities and development of the Ocean Disposal Site Management and Monitoring Plan.
OR	NWD	NHD	SKIPANON CHANNEL, OR	\$3,000	\$3,000		\$3,000		Funds will be used for commonly performed O&M work.	
OR	NWD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, OR	3/	\$9,898,000		\$9,898,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
OR	NWD	NHD	TILLAMOOK BAY & BAR, OR	\$25,000	\$25,000		\$25,000		Funds will be used for commonly performed O&M work.	
OR	NWD	NHD	UMPQUA RIVER, OR	\$1,099,000	\$1,099,000		\$1,099,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,059,000).	
OR	NWD	NIL	WILLAMETTE RIVER AT WILLAMETTE FALLS, OR	\$65,000	\$65,000	\$300,000	\$365,000	5	Funds will be used for caretaker functions and dam safety work.	Funds will be used for to develop navigation maintenance disposition improvement plans and specifications.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
OR	NWD	FDRR	WILLAMETTE RIVER BANK PROTECTION, OR	\$203,000	\$203,000		\$203,000		Funds will be used for commonly performed operation and maintenance work. Funds will be used for specific activities, including to identify potential restoration sites associated with existing Corps revetments in the Willamette Basin.	
OR	NWD	ENS, FDRR	WILLOW CREEK LAKE, OR	\$1,013,000	\$1,013,000		\$1,013,000		Funds will be used for commonly performed O&M work.	
OR	NWD	NHD	YAQUINA BAY AND HARBOR, OR	\$4,075,000	\$4,075,000		\$4,075,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$4,035,000).	
OR	NWD	NHS	YAQUINA RIVER, OR	\$0	\$0	\$158,000	\$158,000	5		Funds will be used for coordination of the upland disposal site required for navigation maintenance.
PA	LRD	NIL	ALLEGHENY RIVER, PA	\$7,177,000	\$7,177,000	\$370,000	\$7,547,000	5	Funds will be used for commonly performed O&M work.	Funds will be used for navigation maintenance of Upper Guide Wall Walkway Phase 1 at Lock 3 - CW Bill Young.
PA	NAD	ENS, FDRR, REC	ALVIN R BUSH DAM, PA	\$1,049,000	\$1,049,000		\$1,049,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including an updated sedimentation survey and the design, plans, specs for the spillway channel wall rock erosion.	
PA	NAD	ENS, FDRR, REC	AYLESWORTH CREEK LAKE, PA	\$359,000	\$359,000		\$359,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including monumentation replacement and design, plans, specs for Mayfield dike toe drain replacement.	
PA	NAD	ENS, FDRR	BELTZVILLE LAKE, PA	\$1,881,000	\$1,881,000	\$475,000	\$2,356,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including repairing the hydraulic steel structure (\$400,000) and seal pipes in intake tower (\$220,000).	Funds will be used to rehabilitate the right flood control gate.
PA	NAD	ENS, FDRR, REC	BLUE MARSH LAKE, PA	\$2,840,000	\$2,840,000	\$455,000	\$3,295,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including repair hydraulic leaks in intake structure and flush the hydraulic system (\$12,000); repair leaf gate actuator in service gate number 1 (\$15,000); and, inspection OCA/Peer Review (\$15,000).	Funds will be used to rehabilitate the right flood control gate.
PA	LRD	ENS, FDRR, REC	CONEMAUGH RIVER LAKE, PA	\$1,851,000	\$1,851,000	\$36,000	\$1,887,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including the installation of a motor and gearing on the jib crane (\$140,000); inspection activities (\$355,000); and, management of special status species (\$25,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance.
PA	NAD	ENS, FDRR, REC, WTR	COWANESQUE LAKE, PA	\$2,117,000	\$2,117,000	\$310,000	\$2,427,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a bridge inspection and an Hydraulic Steel Structure inspection.	Funds will be used to install a new water reservoir at Tompkins Campground and rehabilitate the Tompkins boat ramp.
PA	LRD	ENS, FDRR, REC	CROOKED CREEK LAKE, PA	\$3,538,000	\$3,538,000	\$31,000	\$3,569,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$36,000); replace gate operating machinery (\$1,498,000); and, updating master plan (\$90,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance.
PA	NAD	ENS, FDRR, REC, WTR	CURWENSVILLE LAKE, PA	\$939,000	\$939,000		\$939,000		Funds will be used for commonly performed O&M work.	
PA	NAD	NHD	DELAWARE RIVER, PHILADELPHIA, PA TO TRENTON, NJ	\$4,130,000	\$4,130,000	\$5,875,000	\$10,005,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,030,000).	Funds will be used for dredging activities.
PA	LRD	ENS, FDRR, REC	EAST BRANCH CLARION RIVER LAKE, PA	\$2,167,000	\$2,167,000	\$516,000	\$2,683,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including rehabilitation of water well #1 (\$661,000) and inspection activities (\$16,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance and to replace one gate operating machinery.
PA	NAD	ENS, FDRR, REC	FOSTER JOSEPH SAYERS DAM, PA	\$6,653,000	\$6,653,000		\$6,653,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including Hydraulic Steel Structure inspections, monumentation replacement, stilling basin/channel repairs, tower repairs, and floatwell system repairs.	
PA	NAD	ENS, FDRR	FRANCIS E WALTER DAM, PA	\$1,543,000	\$1,543,000	\$375,000	\$1,918,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including rehabilitate and inspect right service gate (\$475,000), and repair leaks in flood control bulkheads (\$200,000).	Funds will be used to repair the remaining phases of the entrance roads.
PA	NAD	FDRR	GENERAL EDGAR JADWIN DAM AND RESERVOIR, PA	\$335,000	\$335,000		\$335,000		Funds will be used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
PA	LRD	FDRR	INSPECTION OF COMPLETED WORKS, PA	3/	\$1,112,000		\$1,112,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
PA	LRD	FDRR	JOHNSTOWN, PA	\$21,000	\$21,000		\$21,000		Funds will be used for commonly performed O&M work.	
PA	LRD	ENS, FDRR, REC	KINZUA DAM AND ALLEGHENY RESERVOIR, PA	\$1,582,000	\$1,582,000	\$26,000	\$1,608,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$55,000) and water quality equipment and pest and invasive species management (\$40,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance.
PA	LRD	ENS, FDRR, REC	LOYALHANNA LAKE, PA	\$8,316,000	\$6,130,000		\$6,130,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including motorizing the jib crane swing #2 gantry crane (\$140,000); continuing repairs to the service bridge and deck (package 3 (\$3,166,000) and package 4 (\$3,132,000); and inspection activities (18,000).	
PA	LRD	ENS, FDRR, REC	MAHONING CREEK LAKE, PA	\$1,435,000	\$1,435,000		\$1,435,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$27,000) and management of special species status (\$25,000).	
PA	LRD	NIL	MONONGAHELA RIVER, PA	\$16,866,000	\$16,866,000	\$5,045,000	\$21,911,000	5	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of the Point Marion holding tank (\$100,000) and inspection activities (\$787,000).	Funds will be used for navigation maintenance repairs to the Braddock Lock and Dam Miter Gate Auxiliary Chamber and the Maxwell Lock and Dam Tainter Gates and Floating Mooring Bits.
PA	LRD	NIH	OHIO RIVER LOCKS AND DAMS, PA, OH & WV	\$32,771,000	\$32,771,000	\$3,700,000	\$41,771,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dam signage at Dashields L/D (\$2,500,000); building a needle dam in the auxiliary chamber at Montgomery L/D (\$3,440,000); repairing miter gate anchorages and dewatering at Emsworth L/D (\$4,040,000); repairing Pike Island River Wall Monolith 33/34 Crack (\$665,000); and, repairing tainter gates at Pike Island (\$1,941,000).	Funds will be used for navigation maintenance repairs to Emsworth Lock and Dam Miter Gate Anchorages and Dewatering and replace the New Cumberland Auxiliary Upstream Miter Gates.
PA	LRD	NIH	OHIO RIVER LOCKS AND DAMS, PA, OH & WV			\$5,300,000		4		Funds will be used for navigation maintenance at Montgomery Lock and Dam to install two lift gates on the dam; replace the dam gate programmable logic controllers; and, install a high visibility boom system to span the river upstream of the low head dam at Dashields Lock and Dam.
PA	LRD	NIH	OHIO RIVER OPEN CHANNEL WORK, PA, OH & WV	\$959,000	\$959,000		\$959,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging to maintain the navigation channel (\$760,000) and environmental studies and monitoring (\$40,000)	
PA	NAD	NHD	PROJECT CONDITION SURVEYS, PA	3/	\$172,000		\$172,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
PA	NAD	ENS, FDRR	PROMPTON LAKE, PA	\$555,000	\$555,000		\$555,000		Funds will be used for commonly performed O&M work.	
PA	LRD	FDRR	PUNXSUTAWNEY, PA	\$862,000	\$862,000	\$350,000	\$1,212,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including erosion repairs and sediment removal (\$829,000).	Funds will be used for concrete channel repairs.
PA	NAD	ENS, FDRR, REC	RAYSTOWN LAKE, PA	\$4,584,000	\$4,584,000		\$4,584,000		Funds will be used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
PA	NAD	FDRR	SCHEDULING RESERVOIR OPERATIONS, PA	3/	\$78,000		\$78,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
PA	NAD	NHD	SCHUYLKILL RIVER, PA	\$4,083,000	\$4,083,000		\$4,083,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,983,000).	
PA	LRD	ENS, FDRR, REC	SHENANGO RIVER LAKE, PA	\$2,844,000	\$2,844,000	\$54,000	\$2,898,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including rehabilitation of bulkhead hoist (\$25,000), replacing electric service to the dam (\$185,000), and inspection activities (\$25,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance.
PA	NAD	ENS, FDRR, REC	STILLWATER LAKE, PA	\$638,000	\$638,000		\$638,000		Funds will be used for commonly performed O&M work.	
PA	LRD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, PA	3/	\$120,000		\$120,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
PA	NAD	ENS, FDRR, REC	TIOGA - HAMMOND LAKES, PA	\$3,061,000	\$3,061,000	\$90,000	\$3,151,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a bridge inspection, Hydraulic Steel Structure inspections, and three pump station electrical upgrades for Mansfield Levee.	Funds will be used for Lambs Creek Road culvert replacements.
PA	LRD	ENS, FDRR, REC	TIONESTA LAKE, PA	\$5,510,000	\$5,510,000	\$1,485,000	\$6,995,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including installation of a flat wire rope (\$45,000) and initiation of the replacement of the gate operating machinery (\$1,498,000) and (\$1,436,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance and to replace gate operating machinery.
PA	LRD	ENS, FDRR, REC	UNION CITY LAKE, PA	\$538,000	\$538,000	\$8,000	\$546,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$13,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance.
PA	LRD	ENS, FDRR, REC	WOODCOCK CREEK LAKE, PA	\$1,110,000	\$1,110,000	\$124,000	\$1,234,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$32,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance.
PA	NAD	ENS, FDRR, REC	YORK INDIAN ROCK DAM, PA	\$926,000	\$926,000		\$926,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a bridge inspection.	
PA	LRD	ENS, FDRR, REC, WTR	YOUGHIOGHENY RIVER LAKE, PA & MD	\$3,238,000	\$3,238,000	\$41,000	\$3,279,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$251,000) and comprehensive master plan update (\$200,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance.
PR	SAD	FDRR	INSPECTION OF COMPLETED WORKS, PR	3/	\$185,000		\$185,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
PR	SAD	NHS	PROJECT CONDITION SURVEYS, PR	3/	\$100,000		\$100,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
PR	SAD	NHD	SAN JUAN HARBOR, PR	\$730,000	\$730,000		\$730,000		Funds will be used for commonly performed O&M work.	
RI	NAD	NHD	BLOCK ISLAND HARBOR OF REFUGE, RI	\$0	\$0	\$1,600,000	\$1,600,000	2		Funds will be used for dredging activities.
RI	NAD	FDRR	FOX POINT BARRIER, NARRANGANSETT BAY, RI	\$2,790,000	\$2,790,000		\$2,790,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including replace barrier 11kv/4160 electrical transformers (\$2,325,000).	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
RI	NAD	FDRR	INSPECTION OF COMPLETED WORKS, RI	3/	\$95,000		\$95,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
RI	NAD	NHS	PROJECT CONDITION SURVEYS, RI	3/	\$300,000		\$300,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
RI	NAD	NHD	PROVIDENCE RIVER AND HARBOR, RI	\$1,500,000	\$1,500,000	\$1,900,000	\$3,400,000	2	Funds will be used for specific work activities including removal of the remnants of the India Point Bridge (\$1,500,000).	Funds will be used for navigation maintenance removal of Indi Point Bridget and to complete the dredge material management plan.
RI	NAD	FDRR	WOONSOCKET, RI	\$698,000	\$698,000		\$698,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of singleton pump station sluice gate operator (\$90,000); structural analysis of gate (\$20,000); and array testing of trunnion pins (\$30,000).	
SC	SAD	NIL	ATLANTIC INTRACOASTAL WATERWAY, SC	\$285,000	\$285,000	\$3,544,000	\$3,829,000	5	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including channel maintenance surveys (\$45,000).	Funds will be used for navigation maintenance of placement area to include ditching, diking and erosion control.
SC	SAD	NHD	CHARLESTON HARBOR, SC	\$19,476,000	\$19,476,000	\$9,800,000	\$29,276,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$16,468,000) and placement area maintenance (\$1,841,000).	Funds will be used for dredging activities to include Hurricane Irma induced flanking and shoal material placement around the South Jetty.
SC	SAD	NHD	COOPER RIVER, CHARLESTON HARBOR, SC	\$3,994,000	\$3,994,000	\$1,475,000	\$5,469,000	2	Funds will be used for commonly performed O&M work.	Funds will be used for navigation maintenance to upgrade the physical security system; replace the motor control center; and, purchase switchgear conversion equipment and services.
SC	SAD	NHS	FOLLY RIVER, SC	\$0	\$0	\$1,580,000	\$1,580,000	5		Funds will be used for dredging activities.
SC	SAD	FDRR	INSPECTION OF COMPLETED WORKS, SC	3/	\$65,000		\$65,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
SC	SAD	NHS	PROJECT CONDITION SURVEYS, SC	3/	\$875,000		\$875,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
SD	NWD	ENS, HYD, JOINT, REC, WTR	BIG BEND DAM, LAKE SHARPE, SD	\$9,688,000	\$9,688,000		\$9,688,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including wildlife and habitat management (\$30,000). As a multiple purpose project with power, the budgeted amount for the project includes \$3,323,000 for commonly performed O&M jointly used by multiple business lines: HYD – 100%.	
SD	NWD	ENS, FDRR, REC	COLD BROOK LAKE, SD	\$413,000	\$413,000		\$413,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including to conduct periodic inspection (\$70,000).	
SD	NWD	ENS, FDRR, REC	COTTONWOOD SPRINGS LAKE, SD	\$346,000	\$346,000		\$346,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dam safety surveys in support of periodic inspection no. 14 (\$50,000) and conduct periodic inspection no. 14 (\$60,000).	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
SD	NWD	ENS, HYD, JOINT, REC, WTR	FORT RANDALL DAM, LAKE FRANCIS CASE, SD	\$12,398,000	\$12,398,000		\$12,398,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$4,611,000 for commonly performed O&M jointly used by multiple business lines: HYD – 44%, NAV – 24%, and FRM – 32%. Funds will also be used for specific work activities including spillway gate fitness for service analysis and testing (\$510,000).	
SD	NWD	FDRR	INSPECTION OF COMPLETED WORKS, SD	3/	\$771,000		\$771,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
SD	MVD	ENS, FDRR, REC	LAKE TRAVERSE, SD & MN	\$648,000	\$648,000		\$648,000		Funds will be used for commonly performed O&M work.	
SD	NWD	ENS, HYD, JOINT, REC, WTR	OAHE DAM, LAKE OAHE, SD & ND	\$13,723,000	\$13,723,000		\$13,723,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$5,340,000 for commonly performed O&M jointly used by multiple business lines: HYD – 44%, NAV – 24%, and FRM – 32%. Funds will also be used for specific work activities including sewer force main protection at stilling basin bridge (\$785,000).	
SD	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, SD	3/	\$144,000		\$144,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
TN	LRD	ENS, HYD, JOINT, REC, WTR	CENTER HILL LAKE, TN	\$7,577,000	\$7,577,000		\$7,577,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including boundary surveying (\$63,000). As a multiple purpose project with power, the budgeted amount for the project includes \$2,463,000 for commonly performed O&M jointly used by multiple business lines: HYD – 53% and FRM – 47%. Funds will also be used for specific work activities to include dam safety Interim Risk Reduction Measures monitoring (\$75,000) and a monumentation survey (\$40,000).	
TN	LRD	ENS, HYD, JOINT, NIH, REC, WTR	CHEATHAM LOCK AND DAM, TN	\$8,272,000	\$8,272,000		\$8,272,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$1,193,000 for commonly performed O&M jointly used by multiple business lines: NAV – 100%.	
TN	LRD	ENS, HYD, JOINT, NIH, REC, WTR	CORDELL HULL DAM AND RESERVOIR, TN	\$8,059,000	\$8,059,000		\$8,059,000		Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$1,968,000 for commonly performed O&M jointly used by multiple business lines: HYD – 31%, NAV – 9%, and REC – 60%. Funds will also be used for specific work activities to include a monumentation survey (\$40,000) and periodic inspection (\$70,000).	
TN	LRD	ENS, HYD, JOINT, REC, WTR	DALE HOLLOW LAKE, TN	\$7,656,000	\$7,656,000		\$7,656,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including boundary surveying and monumentation (\$155,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,014,000 for commonly performed O&M jointly used by multiple business lines: HYD – 57% and FRM – 43%.	
TN	LRD	FDRR	INSPECTION OF COMPLETED WORKS, TN	3/	\$178,000		\$178,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
TN	LRD	ENS, HYD, JOINT, REC, WTR	J PERCY PRIEST DAM AND RESERVOIR, TN	\$5,837,000	\$5,837,000	\$2,245,000	\$8,082,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including arc flash hazard mitigation such as replacing breakers and motor control centers (\$400,000). As a multiple purpose project with power, the budgeted amount for the project includes \$2,030,000 for commonly performed O&M jointly used by multiple business lines: FRM – 42%, HYD – 7%, and REC – 51%.	Funds will be used for maintenance of recreation features and greenway trail improvements.
TN	MVD	NHS	NORTHWEST TENNESSEE REGIONAL HARBOR, LAKE COUNTY, TN	\$15,000	\$15,000		\$15,000		Funds will be used for commonly performed O&M work.	
TN	LRD	ENS, HYD, JOINT, NIH, REC, WTR	OLD HICKORY LOCK AND DAM, TN	\$13,310,000	\$13,310,000	\$2,200,000	\$15,555,000	4	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including boundary monumentation and rectification (\$60,000). As a multiple purpose project with power, the budgeted amount for the project includes \$2,345,000 for commonly performed O&M jointly used by multiple business lines: HYD – 63% and NAV – 37%.	Funds will be used for navigation maintenance at the Old Hickory Lock upstream closure structure for phase 2 fabrication of lock maintenance stop logs.
TN	LRD	ENS, HYD, JOINT, NIH, REC, WTR	OLD HICKORY LOCK AND DAM, TN			\$45,000		6		Funds will be used for maintenance of recreation features.
TN	LRD	NIH	PROJECT CONDITION SURVEYS, TN	3/	\$5,000		\$5,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
TN	LRD	NIH	TENNESSEE RIVER, TN	\$23,792,000	\$23,792,000		\$23,792,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including operational condition assessment inspections (\$36,000) and installing stop log slots at Pickwick Lock (\$2,164,000).	
TN	MVD	NHS	WOLF RIVER HARBOR, TN	\$655,000	\$655,000		\$655,000		Funds will be used for commonly performed O&M work. Funds will be used for specific work activities including dredging (\$630,000).	
TX	SWD	ENS, FDRR, REC, WTR	AQUILLA LAKE, TX	\$1,211,000	\$1,211,000	\$38,000	\$1,249,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work including a bridge inspection (\$10,000).	Funds will be used for operation of recreation features.
TX	SWD	ENS	ARKANSAS - RED RIVER BASINS CHLORIDE CONTROL - AREA VIII, TX	\$1,797,000	\$1,797,000	\$1,544,000	\$3,341,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for water management quality control activities.
TX	SWD	ENS, FDRR, REC, WTR	BARDWELL LAKE, TX	\$2,193,000	\$2,193,000	\$233,000	\$2,426,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work including bridge inspection (\$4,000) and security system (\$65,000).	Funds will be used for operation of recreation features.
TX	SWD	ENS, FDRR, REC, WTR	BELTON LAKE, TX	\$5,766,000	\$5,766,000	\$50,000	\$5,816,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including flood gate replacement (\$1,570,000) and repair overhead crane hoist (\$345,000).	Funds will be used for operation of recreation features.
TX	SWD	ENS, FDRR, REC, WTR	BENBROOK LAKE, TX	\$3,220,000	\$3,220,000	\$193,000	\$3,413,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including performing periodic inspections (\$115,000); installation of fall protection equipment (\$50,000); master plan compliance (\$250,000); and, boundary surveying (\$50,000).	Funds will be used for operation of recreation features.
TX	SWD	NHD	BRAZOS ISLAND HARBOR, TX	\$3,000,000	\$3,000,000	\$2,600,000	\$5,600,000	2	Funds will be used for commonly performed O&M activities. Funds will also be used for specific work activities including dredging (\$2,675,000).	Funds will be used for dredging activities.
TX	SWD	FDRR	BUFFALO BAYOU AND TRIBUTARIES, TX	\$3,060,000	\$3,060,000		\$3,060,000		Funds will be used for commonly performed O&M work.	
TX	SWD	ENS, FDRR, REC, WTR	CANYON LAKE, TX	\$3,314,000	\$3,314,000	\$96,000	\$3,410,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including to replace security lighting (\$55,000) and boundary surveying and rectification (\$102,000).	Funds will be used for operation of recreation features.
TX	SWD	NHS	CHANNEL TO HARLINGEN, TX	\$50,000	\$50,000		\$50,000		Funds will be used for commonly performed O&M work.	
TX	SWD	NHS	CHANNEL TO PORT BOLIVAR, TX	\$0	\$0	\$10,640	\$600,640	1		Funds will be used for dredging activities.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
TX	SWD	NHS	CHANNEL TO PORT BOLIVAR, TX			\$590,000		5		Funds will be used for dredging activities.
TX	SWD	NHD	CORPUS CHRISTI SHIP CHANNEL, TX	\$8,300,000	\$8,550,000	\$4,800,000	\$14,587,500	2	Funds will be used for commonly performed operation and maintenance (O&M) work. Funds will also be used for specific work activities including dredging (\$7,700,000) and development of a dredge material management plan (\$250,000).	Funds will be used for dredging activities.
TX	SWD	NHD	CORPUS CHRISTI SHIP CHANNEL, TX			\$1,237,500		3		Donor and Energy Transfer Port.
TX	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	DENISON DAM, LAKE TEXOMA, TX	\$9,053,000	\$9,053,000	\$500,000	\$9,553,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection and certification activities for load handling equipment (\$125,000) and revision of the project Shoreline Management Plan (\$410,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,421,000 for commonly performed O&M jointly used by multiple business lines: FRM – 51% and HYD – 49%. Funds will also be used for specific work activities including preparation of the Red River basin water control manual (\$100,000).	Funds will be used to provide mitigation for the overlook restroom demolition (the building is on the National Register of Historic Places.)
TX	SWD	ENS	ESTELLINE SPRINGS EXPERIMENTAL PROJECT, TX	\$39,000	\$39,000		\$39,000		Funds will be used for commonly performed O&M work.	
TX	SWD	ENS, FDRR, REC, WTR	FERRELLS BRIDGE DAM, LAKE O' THE PINES, TX	\$3,643,000	\$3,643,000	\$203,000	\$3,846,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including to replace wire ropes on flood gates and overhead crane (\$225,000) and boundary surveying and rectification (\$75,000).	Funds will be used for operation of recreation features.
TX	SWD	NHD	FREEMPORT HARBOR, TX	\$4,700,000	\$4,700,000	\$5,300,000	\$10,000,000	2	Funds will be used for commonly performed operation and maintenance work. Funds will also be used for specific work activities including dredging (\$4,300,000).	Funds will be used for dredging activities.
TX	SWD	NHD	GALVESTON HARBOR AND CHANNEL, TX	\$10,900,000	\$10,900,000	\$7,100,000	\$18,000,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$10,500,000).	Funds will be used for dredging activities.
TX	SWD	NHS	GIWW, CHANNEL TO VICTORIA, TX	\$4,000,000	\$4,000,000	\$3,900,000	\$7,900,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,950,000).	Funds will be used for navigation maintenance of placement area improvements.
TX	SWD	NHS	GIWW, CHOCOLATE BAYOU, TX	\$50,000	\$50,000		\$50,000		Funds will be used for commonly performed O&M work.	
TX	SWD	ENS, FDRR, REC, WTR	GRANGER DAM AND LAKE, TX	\$3,038,000	\$3,038,000	\$218,000	\$3,256,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work, including bridge inspection (\$18,000); replacement of low-flow actuator (\$835,000); replacement of gate hydraulic fluid (\$55,000); and, replacement of overhead crane cable (\$30,000).	Funds will be used for operation of recreation features.
TX	SWD	ENS, FDRR, REC, WTR	GRAPEVINE LAKE, TX	\$3,059,000	\$3,059,000	\$146,000	\$3,205,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including a Master Plan (\$400,000).	Funds will be used for operation of recreation features.
TX	SWD	NIH	GULF INTRACOASTAL WATERWAY, TX	\$35,275,000	\$35,275,000	\$1,775,000	\$40,350,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$19,385,000); placement area improvements (\$6,350,000); maintenance of mooring buoys (\$965,000); and Mouth of the San Bernard NEPA coordination (\$150,000).	Funds will be used for dredging activities to include beneficial use of dredge material.
TX	SWD	NIH	GULF INTRACOASTAL WATERWAY, TX			\$3,300,000		4		Funds will be used for dredging activities to include beneficial use of dredge material.
TX	SWD	ENS, FDRR, REC	HORDS CREEK LAKE, TX	\$1,485,000	\$1,485,000	\$65,000	\$1,550,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for operation of recreation features.
TX	SWD	NHD	HOUSTON SHIP CHANNEL, TX	\$22,000,000	\$22,000,000	\$2,150,000	\$70,387,500	1	Funds will be used for commonly performed operation and maintenance work. Funds will also be used for specific work activities including dredging (\$12,000,000) and placement area maintenance (\$8,700,000).	Funds will be used for dredging activities.
TX	SWD	NHD	HOUSTON SHIP CHANNEL, TX			\$45,000,000		2		Funds will be used for dredging activities and placement area dewatering and improvements.
TX	SWD	NHD	HOUSTON SHIP CHANNEL, TX			\$1,237,500		3		Donor and Energy Transfer Port.
TX	SWD	FDRR	INSPECTION OF COMPLETED WORKS, TX	3/	\$1,569,000		\$1,569,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
TX	SWD	ENS, FDRR, REC, WTR	JIM CHAPMAN LAKE, TX	\$2,072,000	\$2,072,000		\$2,072,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including stilling basin inspection (\$180,000); install safety railing on intake tower (\$85,000); cost savings measure package to replace office lighting (\$75,000); install rescue retrieval device (\$65,000); and, inspect stilling basin – sonar (\$55,000).	
TX	SWD	ENS, FDRR, REC, WTR	JOE POOL LAKE, TX	\$1,415,000	\$1,415,000		\$1,415,000		Funds will be used for commonly performed O&M work.	
TX	SWD	FDRR	LAKE KEMP, TX	\$268,000	\$268,000		\$268,000		Funds will be used for commonly performed O&M work.	
TX	SWD	ENS, FDRR, REC, WTR	LAVON LAKE, TX	\$3,915,000	\$3,915,000		\$3,915,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspection (\$12,000); dewater spillway (\$150,000); and, real estate encroachments (\$165,000).	
TX	SWD	ENS, FDRR, REC, WTR	LEWISVILLE DAM, TX	\$3,583,000	\$3,583,000	\$272,000	\$3,855,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for operation of recreation features.
TX	SWD	NHD	MATAGORDA SHIP CHANNEL, TX	\$4,450,000	\$4,450,000	\$2,000,000	\$6,450,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$4,100,000).	Funds will be used for dredging activities.
TX	SWD	ENS, FDRR, REC, WTR	NAVARRO MILLS LAKE, TX	\$2,361,000	\$2,361,000	\$212,000	\$2,573,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for operation of recreation features.
TX	SWD	ENS, FDRR, REC, WTR	NORTH SAN GABRIEL DAM AND LAKE GEORGETOWN, TX	\$3,267,000	\$3,267,000	\$243,000	\$3,510,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including periodic inspection (\$141,000) and hydraulic steel structure inspection (\$27,000).	Funds will be used for operation of recreation features.
TX	SWD	ENS, FDRR, REC, WTR	O C FISHER DAM AND LAKE, TX	\$1,687,000	\$1,687,000	\$12,000	\$1,699,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for operation of recreation features.
TX	SWD	ENS, FDRR, REC, WTR	PAT MAYSE LAKE, TX	\$1,102,000	\$1,102,000		\$1,102,000		Funds will be used for commonly performed O&M work.	
TX	SWD	ENS, FDRR, REC, WTR	PROCTOR LAKE, TX	\$2,458,000	\$2,458,000	\$54,000	\$2,512,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for operation of recreation features.
TX	SWD	NHS	PROJECT CONDITION SURVEYS, TX	3/	\$325,000		\$325,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
TX	SWD	ENS, FDRR, REC, WTR	RAY ROBERTS LAKE, TX	\$1,717,000	\$1,717,000		\$1,717,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including periodic inspections (\$100,000).	
TX	SWD	NHD	SABINE - NECHES WATERWAY, TX	\$11,675,000	\$11,675,000	\$5,200,000	\$18,112,500	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$10,450,000).	Funds will be used for dredging activities and placement area 11 improvements.
TX	SWD	NHD	SABINE - NECHES WATERWAY, TX			\$1,237,500		3		Donor and Energy Transfer Port.
TX	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	SAM RAYBURN DAM AND RESERVOIR, TX	\$7,278,000	\$7,278,000	\$326,000	\$7,604,000	6	Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$1,326,000 for commonly performed O&M jointly used by multiple business lines: HYD – 1%, FRM – 44%, and ENS – 55%. Funds will also be used for specific work activities including a hydraulic steel structure inspection (\$80,000).	Funds will be used for operation of recreation features.
TX	SWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, TX	3/	\$510,000		\$510,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
TX	SWD	ENS, FDRR, REC, WTR	SOMERVILLE LAKE, TX	\$3,014,000	\$3,014,000		\$3,014,000		Funds will be used for commonly performed O&M work.	
TX	SWD	ENS, FDRR, REC, WTR	STILLHOUSE HOLLOW DAM, TX	\$4,752,000	\$4,752,000	\$162,000	\$4,914,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work including bridge inspection (\$20,000).	Funds will be used for operation of recreation features.
TX	SWD	NHD	TEXAS CITY SHIP CHANNEL, TX	\$500,000	\$500,000	\$1,237,500	\$1,737,500	3	Funds will be used for commonly performed O&M work.	Donor and Energy Transfer Port.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
TX	SWD	ENS, FD RR, HYD, REC	TOWN BLUFF DAM, B A STEINHAGEN LAKE, TX	\$4,826,000	\$4,826,000	\$148,000	\$4,974,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work including repair of ongoing tainter gate hoist platforms, welds, and wire rope (\$590,000); bulkheads for low flow gates and perform hydraulic steel structure inspection (\$565,000); project office security lighting (\$160,000); and repair damaged concrete on dam (\$260,000).	Funds will be used for operation of recreation life safety features.
TX	SWD	ENS, FD RR, REC, WTR	WACO LAKE, TX	\$3,220,000	\$3,220,000	\$382,000	\$3,602,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work including project office upgrades (\$250,000).	Funds will be used for pest and invasive species management and operation for recreation features.
TX	SWD	FD RR	WALLISVILLE LAKE, TX	\$2,793,000	\$2,793,000		\$2,793,000		Funds will be used for commonly performed O&M work.	
TX	SWD	ENS, FD RR, HYD, JOINT, REC, WTR	WHITNEY LAKE, TX	\$6,884,000	\$7,084,000	\$283,000	\$7,367,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work including a periodic inspection (\$80,000). As a multiple purpose project with power, the budgeted amount for the project includes \$799,000 for commonly performed O&M jointly used by multiple business lines: HYD – 22%, FRM – 69%, and ENS – 9%. Funds will also be used for specific work including bridge inspection (\$20,000) and periodic inspection (\$120,000).	Funds will be used for operation of recreation features.
TX	SWD	ENS, FD RR, REC, WTR	WRIGHT PATMAN DAM AND LAKE, TX	\$4,389,000	\$4,389,000	\$250,000	\$4,639,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work including security repairs (\$59,000), project office lighting (\$240,000), and replace wire ropes on flood gates and overhead crane (\$200,000).	Funds will be used for operation and maintenance of recreation features.
UT	SPD	FD RR	INSPECTION OF COMPLETED WORKS, UT	3/	\$25,000		\$25,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
UT	SPD	FD RR	SCHEDULING RESERVOIR OPERATIONS, UT	3/	\$500,000		\$500,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
VA	NAD	NIL	ATLANTIC INTRACOASTAL WATERWAY - ACC, VA	\$679,000	\$679,000	\$2,190,000	\$2,869,000	5	Funds will be used for commonly performed O&M work.	Funds will be used for operation for navigation.
VA	NAD	FD RR, NIL	ATLANTIC INTRACOASTAL WATERWAY - DSC, VA	\$640,000	\$640,000	\$315,000	\$955,000	4	Funds will be used for commonly performed O&M work.	Funds will be used for operation for navigation.
VA	NAD	NHS	CHINCOTEAGUE INLET, VA	\$400,000	\$400,000	\$300,000	\$700,000	5	Funds will be used for commonly performed operation and maintenance work.	Funds will be used for dredging activities.
VA	NAD	FD RR	GATHRIGHT DAM AND LAKE MOOMAW, VA	\$2,612,000	\$2,612,000	\$350,000	\$2,962,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for maintenance of dams to replace the motor control centers in the Intake Tower.
VA	NAD	NHD	HAMPTON ROADS, NORFOLK & NEWPORT NEWS HARBOR, VA (DRIFT REMOVAL)	\$1,700,000	\$1,700,000	\$444,000	\$2,144,000	2	Funds will be used for commonly performed O&M work.	Funds will be used for dredging activities.
VA	NAD	NHD	HAMPTON ROADS, VA (PREVENTION OF OBSTRUCTIVE DEPOSITS)	\$120,000	\$120,000		\$120,000		Funds will be used for commonly performed O&M work.	
VA	NAD, SAD	FD RR	INSPECTION OF COMPLETED WORKS, VA	3/	\$440,000		\$440,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
VA	NAD	NHD	JAMES RIVER CHANNEL, VA	\$3,360,000	\$3,360,000	\$7,080,000	\$10,440,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,010,000).	Funds will be used for dredging activities.
VA	SAD	ENS, FD RR, HYD, JOINT, REC, WTR	JOHN H KERR LAKE, VA & NC	\$11,594,000	\$11,594,000		\$11,594,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including operational condition assessment (OCA) (\$25,000); Vehicle Bridge Inspection (\$22,000); and, periodic assessment and inspection and report for Island Creek Dam (\$216,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,232,000 for commonly performed O&M jointly used by multiple business lines: HYD - 81% and FRM - 19%. Funds will also be used for specific work activities including vehicle bridge inspection (\$32,000).	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
VA	LRD	ENS, FD RR, REC, WTR	JOHN W FLANNAGAN DAM AND RESERVOIR, VA	\$2,433,000	\$2,433,000		\$2,433,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including performing inspection activities (\$96,000) and a master plan update (\$150,000).	
VA	NAD	NHD	NORFOLK HARBOR, VA	\$15,965,000	\$15,965,000	\$3,000,000	\$23,915,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$9,510,000) and raising the dikes (\$5,950,000).	Funds will be used for Craney Island disposal facility navigation maintenance activities.
VA	NAD	NHD	NORFOLK HARBOR, VA			\$4,950,000		3		Donor and Energy Transfer Port.
VA	LRD	ENS, FD RR, REC, WTR	NORTH FORK OF POUND RIVER LAKE, VA	\$765,000	\$765,000		\$765,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activity including completing a periodic inspection (\$30,000) and a master plan update (\$100,000).	
VA	SAD	ENS, FD RR, HYD, JOINT, REC, WTR	PHILPOTT LAKE, VA	\$5,504,000	\$5,504,000		\$5,504,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including surveys for Master Plan update (\$450,000) and continuation of a water reallocation study (\$200,000). As a multiple purpose project with power, the budgeted amount for the project includes \$1,340,000 for commonly performed O&M jointly used by multiple business lines: HYD - 45% and FRM - 55%.	
VA	NAD	NHD	PROJECT CONDITION SURVEYS, VA	3/	\$1,125,000		\$1,125,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
VA	NAD	NHS	RAPPAHANNOCK RIVER, VA	\$210,000	\$210,000		\$210,000		Funds will be used for commonly performed operation and maintenance work.	
VA	NAD	NHS	RUDEE INLET, VA	\$320,000	\$320,000		\$320,000		Funds will be used for commonly performed O&M work.	
VA	NAD	NHD	WATER AND ENVIRONMENTAL CERTIFICATIONS, VA	\$150,000	\$150,000		\$150,000		Funds will be used for critical activities to acquire water quality and environmental certifications and conduct required coordination.	
VI	SAD	FD RR	INSPECTION OF COMPLETED WORKS, VI	3/	\$18,000		\$18,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
VI	SAD	NHS	PROJECT CONDITION SURVEYS, VI	3/	\$50,000		\$50,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
VT	NAD	ENS, FD RR, REC	BALL MOUNTAIN, VT	\$2,206,000	\$2,206,000	\$60,000	\$2,266,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities include bridge inspections (\$8,000); repairs to Gates 2 and 3 (\$1,000,000); repair hole in floatwell inlet pipe (\$25,000); replace service conductor (\$20,000); design a downstream monitoring weir system (\$275,000); and, develop an inspection checklist for critical items for use in the Emergency Action Plan(\$10,000).	Funds will be used to repair the Floatwell Inlet Pipe.
VT	NAD	NHS	GORDONS LANDING, VT	\$0	\$0	\$125,000	\$125,000	5		Funds will be used for navigation maintenance of dredge material disposal sites, breakwaters, jetties and other structures.
VT	NAD	FD RR	INSPECTION OF COMPLETED WORKS, VT	3/	\$159,000		\$159,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
VT	NAD	NHS	NARROWS OF LAKE CHAMPLAIN, VT & NY	\$0	\$0	\$50,000	\$50,000	5		Funds will be used for navigation maintenance of dredge material disposal sites, breakwaters, jetties and other structures.
VT	NAD	ENS, FDRR, REC	NORTH HARTLAND LAKE, VT	\$1,012,000	\$1,012,000		\$1,012,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including paving road to office and dam (\$130,000).	
VT	NAD	ENS, FDRR, REC	NORTH SPRINGFIELD LAKE, VT	\$1,350,000	\$1,350,000		\$1,350,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including required bridge inspections (\$10,000); clear right abutment area (\$60,000); construct seepage collection and monitoring weir (\$75,000); replace gatehouse power feed conduit (\$325,000); prepare interim risk reduction measures plan (\$15,000); overhead crane repairs (\$15,000); replace gatehouse roof (\$35,000); repack hydraulic gate cylinders (\$25,000); and, fall protection handrail gatehouse roof (\$25,000).	
VT	NAD	ENS, FDRR, REC	TOWNSHEND LAKE, VT	\$863,000	\$863,000	\$130,000	\$993,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$10,000).	Funds will be used to investigate causes of settlement of the rockfill at the left outlet wing wall.
VT	NAD	ENS, FDRR, REC	UNION VILLAGE DAM, VT	\$992,000	\$992,000		\$992,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$18,000); overhead crane access (\$20,000); replace the gatehouse furnace (\$20,000); and, purchase of flowage easement (\$130,000).	
WA	NWD	NHD	BELLINGHAM HARBOR, WA	\$30,000			\$0			
WA	NWD	REC	CHIEF JOSEPH DAM, WA	\$588,000	\$588,000	\$45,000	\$633,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for operation and maintenance of visitor centers.
WA	NWD	NHD	COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA & PORTLAND, OR	\$52,236,000	\$52,236,000	\$2,640,000	\$54,876,000	2	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$48,892,000).	Funds will be used for navigation maintenance repairs to Cottonwood Island and Miller-Rice pile dike systems and to complete the dredge material management plan.
WA	NWD	NHD	COLUMBIA RIVER AT BAKER BAY, WA & OR	\$1,828,000	\$1,828,000		\$1,828,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,821,000).	
WA	NWD	NHS	COLUMBIA RIVER BETWEEN CHINOOK AND SAND ISLAND, WA	\$0	\$0	\$1,494,000	\$1,494,000	5		Funds will be used for dredging activities to include real estate management for navigation.
WA	NWD	NHD	COLUMBIA RIVER BETWEEN VANCOUVER, WA AND THE DALLES, OR	\$1,057,000	\$1,057,000		\$1,057,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$951,000).	
WA	NWD	FDRR, NIH	COLUMBIA RIVER FISH MITIGATION, WA, OR & ID	\$2,597,000	\$2,597,000		\$2,597,000		Funds will be used for commonly performed O&M work.	
WA	NWD	NHD	EVERETT HARBOR AND SNOHOMISH RIVER, WA	\$2,087,000	\$1,337,000		\$1,337,000		Funds will be used for commonly performed O&M work. Funds will be used for specific work activities including dredging (\$1,856,000).	
WA	NWD	NHD	GRAYS HARBOR, WA	\$9,078,000	\$7,828,000		\$7,828,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$10,023,000).	
WA	NWD	ENS, FDRR	HOWARD HANSON DAM, WA	\$4,347,000	\$4,347,000		\$4,347,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection of the Stilling Basin (\$75,000).	
WA	NWD	ENS, JOINT, NIH, REC	ICE HARBOR LOCK AND DAM, WA	\$4,998,000	\$7,003,000	\$85,000	\$7,088,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including downstream approach dredging (\$900,000), design for the upstream navigation lock tainter gate, machinery, and controls replacement (\$400,000), and periodic inspections (\$4,000). As a multiple purpose project with power, the budgeted amount for the project includes \$2,298,000 for commonly performed O&M jointly used by multiple business lines: NAV – 100%.	Funds will be used to convert Charbonneau Group Camp into Volunteer Village.
WA	NWD	FDRR	INSPECTION OF COMPLETED WORKS, WA	3/	\$1,019,000		\$1,019,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
WA	NWD	NHD	KENMORE NAVIGATION CHANNEL, WA	\$6,105,000	\$6,105,000		\$6,105,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$6,065,000).	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
WA	NWD	NHD	LAKE CROCKETT (KEYSTONE HARBOR), WA	\$1,728,000	\$1,623,000		\$1,623,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,373,000).	
WA	NWD	NHS	LAKE RIVER, WA	\$0	\$0	\$150,000	\$150,000	5		Funds will be used for navigation maintenance studies and surveys for environmental monitoring for dredging purposes.
WA	NWD	ENS, NHD, REC	LAKE WASHINGTON SHIP CANAL, WA	\$9,319,000	\$9,319,000		\$9,319,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including hydraulic steel structure inspections (\$51,000); bridge inspections (\$23,000); and, updating the master plan (\$125,000).	
WA	NWD	ENS, JOINT, NIH, REC	LITTLE GOOSE LOCK AND DAM, WA	\$4,473,000	\$4,473,000	\$50,000	\$4,523,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including periodic inspections (\$18,000); Navlock upper sill and monolith 4 waterstop repair (\$1,500,000); and, update to the master plan (\$121,000). As a multiple purpose project with power, the budgeted amount for the project includes \$541,000 for commonly performed O&M jointly used by multiple business lines: NAV – 100%. Funds will also be used for specific work activities including facility physical/cyber security assessments (\$5,000).	Funds will be used for NEPA compliance for dredging recreation boat basins at Little Goose Landing, Willow Landing and Illia Landing.
WA	NWD	ENS, JOINT, NIH, REC	LOWER GRANITE LOCK AND DAM, WA	\$3,309,000	\$3,309,000	\$93,000	\$3,402,000	6	Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$89,000 for commonly performed O&M jointly used by multiple business lines: NAV – 100%.	Funds will be used for NEPA compliance for dredging recreation boat basins at Offield Landing, Wawawai Landing, Blyton Landing, Nisqually John Landing, Greenbelt Boat Ramp, Swallows Boat Ramp, and Asotin Slough Boat Ramp.
WA	NWD	ENS, JOINT, NIH, REC	LOWER MONUMENTAL LOCK AND DAM, WA	\$2,919,000	\$2,919,000	\$50,000	\$2,969,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including periodic inspection (\$4,000) and the continuing update to the master plan (\$161,000). As a multiple purpose project with power, the budgeted amount for the project includes \$528,000 for commonly performed O&M jointly used by multiple business lines: NAV – 100%.	Funds will be used for NEPA compliance for dredging recreation boat basins at Texas Rapids Recreation Area, Riparia Park and Devils Bench
WA	NWD	ENS, FD RR, REC	MILL CREEK LAKE, WA	\$2,746,000	\$2,746,000		\$2,746,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including diversion dam low flow radial arm gate repairs (\$346,000) and periodic inspections (\$23,000).	
WA	NWD	FD RR	MOUNT SAINT HELENS SEDIMENT CONTROL, WA	\$266,000	\$266,000		\$266,000		Funds will be used for commonly performed O&M work.	
WA	NWD	ENS, FD RR, REC	MUD MOUNTAIN DAM, WA	\$6,546,000	\$6,546,000		\$6,546,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including continued construction oversight of the 9 ft tunnel liner replacement (\$300,000); hydraulic cylinder rehabilitation (\$470,000); easement inspection (\$34,000); and, updating master plans (\$90,000).	
WA	NWD	NHD	PROJECT CONDITION SURVEYS, WA	3/	\$1,046,000		\$1,046,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
WA	NWD	NHD	PUGET SOUND AND TRIBUTARY WATERS, WA	\$1,725,000	\$1,725,000		\$1,725,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities to include replacement of nozzles and tunnels on the Motor Vessel (M/V) Puget (\$150,000).	
WA	NWD	NHS	QUILLAYUTE RIVER, WA	\$280,000			\$0			
WA	NWD	FD RR	SCHEDULING RESERVOIR OPERATIONS, WA	3/	\$469,000		\$469,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
WA	NWD	NHD	SEATTLE HARBOR, WA	\$211,000	\$0	\$2,782,000	\$2,782,000	3		Donor and Energy Transfer Port.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
WA	NWD	FDRR	STILLAGUAMISH RIVER, WA	\$297,000	\$297,000	\$350,000	\$647,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for the supervision and administration of previously awarded contract to modify and upgrade the fish ladder.
WA	NWD	NHS	SWINOMISH CHANNEL, WA	\$50,000			\$0			
WA	NWD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, WA	3/	\$66,000		\$66,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
WA	NWD	NHD	TACOMA HARBOR, WA	\$0	\$0	\$2,744,000	\$2,744,000	3		Donor and Energy Transfer Port.
WA	NWD	FDRR	TACOMA, PUYALLUP RIVER, WA	\$184,000	\$184,000		\$184,000		Funds will be used for commonly performed O&M work.	
WA	NWD	ENS, JOINT, NIH, REC	THE DALLES LOCK AND DAM, WA & OR	\$3,607,000	\$3,607,000	\$400,000	\$4,007,000	4	Funds will be used for commonly performed O&M work. As a multiple purpose project with power, the budgeted amount for the project includes \$1,661,000 for commonly performed O&M jointly used by multiple business lines: NAV – 100%.	Funds will be used for navigation maintenance to complete the Navlock Tainter Valve detailed design report and design.
WA	NWD	NHD	WILLAPA RIVER AND HARBOR, WA	\$490,000	\$440,000		\$440,000		Funds will be used for commonly performed O&M work.	
WI	MVD	ENS, FDRR, REC	EAU GALLE RIVER LAKE, WI	\$1,055,000	\$1,055,000	\$6,000	\$1,061,000	6	Funds will be used for commonly performed O&M work.	Funds will be used for pest and invasive species management.
WI	LRD	ENS, FDRR	FOX RIVER, WI	\$11,457,000	\$11,457,000	\$193,000	\$11,650,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including repairing walkways and piers at Lower Appleton (\$1,100,000) and DePere (\$1,500,000); replacing gates and trunions at Lower Appleton (\$2,100,000) and Upper Appleton (\$3,700,000); conducting periodic assessments at Cedars Dam and DePere Dam (\$210,000); and, installing waterway safety signs (\$250,000).	Funds will be used for dam safety for Flood Risk Management instrumentation, data collection and analysis.
WI	LRD	NHD	GREEN BAY HARBOR, WI	\$3,437,000	\$3,437,000		\$3,437,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,000,000).	
WI	MVD	FDRR	INSPECTION OF COMPLETED WORKS, WI	3/	\$45,000		\$45,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
WI	LRD	NHD	KENOSHA HARBOR, WI	\$0	\$0	\$730,000	\$730,000	2		Funds will be used for dredging activities.
WI	LRD	ENS	KEWAUNEE HARBOR, WI	\$13,000	\$13,000		\$13,000		Funds will be used for commonly performed O&M work.	
WI	LRD	NHD	MANITOWOC HARBOR, WI	\$0	\$0	\$640,000	\$640,000	2		Funds will be used for navigation maintenance of the Manitowoc confined disposal facility.
WI	LRD	NHD	MILWAUKEE HARBOR, WI	\$1,341,000	\$1,341,000		\$1,341,000		Funds will be used for specific work activities including repairs to portions of the north breakwater (\$1,341,000).	
WI	MVD	NHS	PROJECT CONDITION SURVEYS, WI	3/	\$230,000		\$230,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safety.	
WI	LRD	NHD, REC	STURGEON BAY HARBOR AND LAKE MICHIGAN SHIP CANAL, WI	\$7,000	\$7,000		\$7,000		Funds will be used for commonly performed O&M work.	
WI	LRD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, WI	3/	\$550,000		\$550,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
WV	LRD	ENS, FDRR, REC	BEECH FORK LAKE, WV	\$1,711,000	\$1,711,000	\$20,000	\$1,731,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activity including inspection activities (\$49,000) and a master plan update (\$150,000).	Funds will be used for operation and maintenance of visitor centers.
WV	LRD	ENS, FDRR, REC	BLUESTONE LAKE, WV	\$2,240,000	\$2,240,000	\$46,000	\$2,286,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activity including periodic inspection (\$80,000); a master plan update (\$150,000); and, periodic inspection (\$80,000).	Funds will be used for maintenance of recreation features.
WV	LRD	ENS, FDRR, REC	BURNSVILLE LAKE, WV	\$2,720,000	\$2,720,000	\$45,000	\$2,765,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including an assessment of sluice gate hydraulic line corrosion (\$29,000) and a master plan update (\$150,000).	Funds will be used for maintenance of recreation features.
WV	LRD	ENS, FDRR, REC	EAST LYNN LAKE, WV	\$2,644,000	\$2,644,000		\$2,644,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including performing inspection activities (\$4,000); investigating deteriorating selective withdraw gate guides on intake structure (\$110,000); completing a Historic Properties Management Plan (\$71,000); and, a master plan update (\$150,000).	
WV	LRD	FDRR	ELKINS, WV	\$25,000	\$25,000		\$25,000		Funds will be used for commonly performed O&M work.	
WV	LRD	FDRR	INSPECTION OF COMPLETED WORKS, WV	3/	\$423,000		\$423,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
WV	LRD	ENS, NIL, REC	KANAWHA RIVER LOCKS AND DAMS, WV	\$12,641,000	\$12,641,000	\$985,000	\$18,206,000	4	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including arc flash for London & Marmet L&D (\$50,000); inspection activities (\$282,000); Operational Condition Assessment Inspections (\$24,000); and, replacing lock crossover and gallery lighting at Winfield L&D (\$40,000).	Funds will be used for the Winfield Lock and Dam major rehabilitation report
WV	LRD	ENS, NIL, REC	KANAWHA RIVER LOCKS AND DAMS, WV			\$4,580,000		5		Funds will be used for navigation maintenance for Winfield Lock and Dam Roller Gate #1 repairs; Winfield Lock and Dam Auxiliary Chamber Miter Gate Anchorage Component Replacement; and, the Winfield Lock and Dam major rehabilitation report.
WV	LRD	ENS, NIH, REC	OHIO RIVER LOCKS AND DAMS, WV, KY & OH	\$24,361,000	\$24,361,000	\$10,450,000	\$39,611,000	1	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$551,000); perform Operational Condition Assessment inspection (\$24,000); perform arc flash update at Willow Island L&D (\$25,000); repairs to Middle Lock wall including anchoring at Greenup L&D (\$2,200,000); cost savings measure to replace gallery lighting at Belleville (\$60,000); and, a master plan update (\$150,000).	Funds will be used for navigation maintenance at Greenup Lock and Dam Sector Base, Auxiliary Chamber and River Wall Miter Gate Machinery & Empty Valve repairs.
WV	LRD	ENS, NIH, REC	OHIO RIVER LOCKS AND DAMS, WV, KY & OH			\$4,800,000		4		Funds will be used for navigation maintenance at Greenup Lock and Dam Middle Wall Miter Gate Machinery & Empty Valve repairs.
WV	LRD	NIH	OHIO RIVER OPEN CHANNEL WORK, WV, KY & OH	\$2,710,000	\$2,710,000		\$2,710,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$2,126,000).	
WV	LRD	ENS, FDRR, REC	R D BAILEY LAKE, WV	\$2,492,000	\$2,492,000	\$45,000	\$2,537,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including performing inspection activities (\$118,000) and upgrade all security lighting on the dam, intake structure, maintenance building and visitor center (\$60,000).	Funds will be used for maintenance of recreation features.
WV	LRD	ENS, FDRR, REC, WTR	STONEWALL JACKSON LAKE, WV	\$1,466,000	\$1,466,000	\$29,000	\$1,495,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$18,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance.
WV	LRD	ENS, FDRR, REC, WTR	SUMMERSVILLE LAKE, WV	\$2,571,000	\$2,571,000		\$2,571,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including replace intake gate knife valves (\$100,000) and complete tree removal, grading and leveling (\$80,000).	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
WV	LRD	ENS, FDRR, REC	SUTTON LAKE, WV	\$2,980,000	\$2,980,000		\$2,980,000		Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including performing inspections (\$132,000); repairing downstream culvert pipe erosion (\$35,000); replacing dam boiler furnace (\$24,000); replacing damsite street lights (\$24,000); replacing windows in dam tower (\$35,000); and, a master plan update (\$150,000).	
WV	LRD	ENS, FDRR, REC, WTR	TYGART LAKE, WV	\$1,667,000	\$1,667,000	\$21,000	\$1,688,000	6	Funds will be used for commonly performed O&M work. Funds will also be used for specific work activities including resolution of encroachments (\$20,000).	Funds will be used for real estate boundary and flowage easement inspection, monitoring and maintenance.
WY	NWD	FDRR	INSPECTION OF COMPLETED WORKS, WY	3/	\$189,000		\$189,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
WY	NWD	FDRR	JACKSON HOLE LEVEES, WY		\$1,135,000		\$1,135,000		Funds will be used for commonly performed O&M work.	
WY	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, WY	3/	\$109,000		\$109,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
XX	ERDC	RI	AQUATIC NUISANCE CONTROL RESEARCH		\$675,000	\$16,000,000	\$16,000,000		Funds are being used to complete field studies to monitor and determine longevity and fecundity estimates for Asian carp populations. Data will be used to reparametrize and improve existing population models for assessing Asian carp impacts to aquatic ecosystems. Complete field studies to evaluate the performance of deployed traps and barriers retrofitted with submersed metals to prevent passage of sea lamprey. Initiate the development and evaluation of new, non-toxic antifouling technologies for protection of Corps hydraulic structures to reduce the corrosion risk and maintenance costs associated with invasive mussels (zebra and quagga mussels) and other aquatic invasive macro-fouling organisms.	
XX	HQ	RI	ASSET MANAGEMENT / FACILITY EQUIPMENT MANAGEMENT SYSTEM		\$3,285,000	\$4,285,000	\$4,285,000		Funds are being used to implement ORA and refinements for flood and coastal storm damage reduction and navigation projects, respectively. Coordinate draft outputs from the Corps Value Model effort. Develop improved reporting for two of the eight PMMPs, including automation of data between the Facilities and Equipment Maintenance system (FEM) and the Enterprise Data Warehouse (EDW). Conduct system modeling on Missouri River hydropower system. Complete the OCA tool, training, and guidance for recreation assets. Continue development of baseline OCA and ORA for navigation channels and environmental stewardship assets. Continued implementation and refinement of MMIPs, including developing better reports and metrics for measuring progress.	
XX	SWD	RI	CIVIL WORKS CYBER SECURITY CONTROL SYSTEMS	\$3,600,000	\$3,600,000	\$466,000	\$5,000,000	1	Funds are being used to conduct cybersecurity posture assessments at Corps projects.	Funds will be used for additional navigation maintenance cybersecurity posture assessments at Corps projects.
XX	SWD	RI	CIVIL WORKS CYBER SECURITY CONTROL SYSTEMS			\$934,000		6		Funds will be used for additional multi-purpose cybersecurity posture assessments at Corps projects.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
XX	MVD	RI	CIVIL WORKS WATER MANAGEMENT SYSTEM (CWWMS)	\$7,650,000	\$7,650,000		\$7,650,000		Funds are being used to continue to the nationwide CWMS modeling effort to enhance the operational decision making for floods, droughts, operations planning and real-time operations. This will include developing the hydrologic and hydraulic models required for a watershed approach to effectively meet authorized purposes. Data collection, data dissemination, and modeling and analysis capabilities will be addressed on a national level. Funds from this account will be used to complete the 22 basins started in FY 2017 as well as 5 new start basins in FY 2018. An additional 18 basins will be started in FY 2018; due to size and complexity, all of these basins will be completed in FY 2019. At the end of FY 2018, 118 of the 201 basins will be implemented. In addition, the Funds are being used to help establish continuity of operations capabilities that fully support the water management mission and complies with U.S. Army Corps of Engineers and Department of Defense Corporate Information Assurance and Security requirements. With the basins scheduled for completion through FY 2018, 74% of the total USACE land area will be modeled, 84% of the USACE river miles will be modeled, and 80% of the USACE reservoirs will be modeled.	
XX	ERDC	RI	COASTAL INLET RESEARCH PROGRAM	\$2,430,000	\$10,975,000		\$10,975,000		Funds are being used for the Coastal Inlets Research Program is used to advance knowledge and tools to better predict future channel shoaling, to provide quantitative and practical predictive tools and data to reduce the cost of dredging for Federal navigation projects and to maintain jetties, identify potential unintended consequences, mitigate for engineering activities related to navigation channels, and prioritize maintenance options.	
XX	ERDC	RI	COASTAL OCEAN DATA SYSTEM (CODS)	\$2,250,000	\$7,500,000		\$7,500,000		Funds are being used to update WIS data management and delivery system by migrating processing algorithms from Matlab code to python to reduce software costs and improving interoperability through refined graphical displays and data download capabilities. Use results from the FLOSSIE intra-measurement experiment in Monterey Bay (the experiment measured response of different buoys and sensor packages to optimize spectral data capabilities) to determine the quality of the past three decades of NOAA's NDBC 6N (NOMAD) buoy data. These 6N buoy systems are generally deployed in deep water and are the basis of altimeter algorithms to estimate wave height from satellite data. Updated WaveEval Tools will be used for rigorous spectral analysis evaluation of historical data.	
XX	MVD	RI	CULTURAL RESOURCES (NAGPRA/CURATION)	\$900,000	\$900,000		\$900,000		Funds are being used to provide overall management of the Corps' NAGPRA programs and serves as a centralized base for compliance, an information source, and contracting. The Corps facilitates consistent nationwide NAGPRA program implementation and operation, which includes inventorying and summarizing collections, consulting with Indian tribes, researching cultural affiliation and aboriginal occupation, and returning NAGPRA collections to the appropriate Indian tribes	
XX	NAD	RI	DREDGE MCFARLAND READY RESERVE	\$10,521,000	\$10,521,000		\$10,521,000		Funds are being used to maintain the dredge McFarland in ready reserve status with sufficient crew to respond within 72 hours when directed to do so for urgent and emergency purposes, and to Funds are being used 70 days of required training work in the Delaware River and Bay as specified in its authorization, with dredging work charged to the project dredged.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
XX	MVD	RI	DREDGE WHEELER READY RESERVE	\$13,500,000	\$13,500,000		\$13,500,000		Funds are being used to maintain the Wheeler in ready reserve status, and will not be assigned any scheduled hopper dredging work other than 70 days of dredging that will be completed in conjunction with readiness exercises to maintain the skills of the crew, and ensure that the Wheeler remains in a fully operational state, ready to respond to any emergent dredging requirements. The Wheeler will remain at the dock, with sufficient crew to respond within 72 hours when directed to do so.	
XX	IWR	RI	DREDGING DATA ANALYSIS/OPTIMIZATION TOOLS FOR NAVIGATION	\$392,000	\$600,000		\$600,000		Funds are being used for system improvements for ship and cargo route modeling	
XX	IWR	RI	DREDGING DATA AND LOCK PERFORMANCE MONITORING SYSTEM	\$1,010,000	\$2,720,000		\$2,720,000		Funds are being used for Data Migration work for data critical to the collection of transportation data at our inland facilities and the Dredging Information System, system interface improvements	
XX	ERDC	RI	DREDGING OPERATIONS AND ENVIRONMENTAL RESEARCH (DOER)	\$5,000,000	\$10,000,000		\$10,000,000		Funds are being used to fund activities that can be used to benefit both current and future projects. Focus areas are: Sediment and Dredging Processes; Dredged Material Management; Environmental Resource Management; Risk Management	
XX	ERDC	RI	DREDGING OPERATIONS TECHNICAL SUPPORT PROGRAM (DOTS)	\$2,550,000	\$6,120,000		\$6,120,000		Funds are being used for technical assistance to field offices to bolster technical expertise for new or ongoing issues that impact the execution of the program.	
XX	HQ	RI	EARTHQUAKE HAZARDS REDUCTION PROGRAM	\$300,000	\$300,000		\$300,000		Funds are being used to develop and implement a Seismic Safety Action Classification System (SSAC) for buildings. This program provides evaluation procedures for ranking civil works buildings in order of greatest seismic risk. This program will meet the executive order requirements, while continuing to develop technical seismic building evaluation and mitigation procedures. Funds are also used to provide seismic input to Headquarters publications as needed, provide interpretation of seismic codes and criteria as needed, maintain technical seismic expertise, supplement development of guidance for seismic design of Civil Works projects, address lifeline systems not previously covered in commercially available standards or existing USACE guidance, and to develop guidance for operations personnel.	
XX	HQ	RI	F&WL OPERATING FISH HATCHERY REIMBURSEMENT	\$5,400,000	\$5,400,000		\$5,400,000		Funds are being transferred to the USFWS to produce and release approximately 12 million mitigation fish at 45 different receiving waters impacted by 37 Corps dams to meet mitigation requirements	
XX	HQ	RI	FACILITY PROTECTION	\$4,182,000	\$4,182,000		\$4,182,000		Funds are being used for the USACE CIPR program to implement the 2018 consequence-based screening and prioritization efforts at USACE Civil Works projects using the Dams Sector Consequence-Based Top Screen (CTS) methodology to identify and prioritize those high-consequence (critical) facilities in USACE's Civil Works portfolio. This process informs which projects represent the highest priority to conduct Common Risk Model for Dams security risk assessments. Some additional activities in FY2018 will include enhancements of web-based capabilities (Corps of Engineers Security Assessment Tool) and support to MSCs and Districts on CRM-D implementation at USACE Civil Works projects	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
XX	IWR	RI	HARBOR MAINTENANCE FEE DATA COLLECTION	\$795,000	\$795,000		\$795,000		Funds are being used by the Corps to document the operation of the trust fund, analyze waterborne commerce shipments and vessel movement data to respond to legal questions to the HMT and the increasing requests for HMTF data/analyses, collaborate with CBP to improve CBP-Corps data communication systems to target delinquent domestic shippers for audit to increase HMT collections, continue ongoing HMT data collection and analysis programs, and to develop and implement improved data collection processes and systems and data analysis models and program computer enhancements to provide more complete/accurate domestic shipper information, as well as, the origin/destination of the vessel movements in order to more accurately identify those moves subject to the HMT.	
XX	LRD	RI	INLAND WATERWAY NAVIGATION CHARTS	\$4,050,000	\$5,250,000		\$5,250,000		Funds are being used to continue working with districts, USCG, and NOAA to provide high quality, accessible navigation information to waterways users.	
XX	IWR	RI	INSPECTION OF COMPLETED WORKS FEDERAL FLOOD CONTROL PROJECTS	\$15,000,000	\$20,000,000		\$20,000,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. For each of these projects, the Department of the Army and the non-Federal sponsor have executed an agreement to identify the "items of local cooperation" for Corps projects, including operation and maintenance requirements necessary to ensure the project will function as intended, as well as preserve the value of the Federal investment. The inspections are used to identify deficiencies or areas which need monitoring or immediate repair; to identify any changes over time; and to collect information in order to be able to make informed decisions about future actions. Funds are also used to review updates to project operation and maintenance manuals.	
XX	HQ	RI	INSPECTION OF COMPLETED WORKS	\$32,784,000	\$0		\$0			
XX	IWR	RI	LEEVE SAFETY PROGRAM/NATIONAL (LEEVE) FLOOD INVENTORY	\$4,500,000	\$15,000,000		\$15,000,000		Funds are being used to operate and maintain the NLD, including updating the existing data to reflect the best available risk-based levee information, and implementing software revisions to improve functionality and usability based on user feedback. Operation and maintenance activities for the NLD include supporting NLD related tools such as the Levee Inventory System and Levee Screening Tool, including training for these tools. These funds will also be used to continue work with Federal agency partners, such as FEMA, on Federal voluntary levee safety best practices and guidelines and public awareness efforts.	
XX	ERDC	RI	MONITORING OF COMPLETED NAVIGATION PROJECTS	\$3,780,000	\$12,000,000		\$12,000,000		Funds are being used for monitoring existing structures; river information services; and structural health monitoring.	
XX	SAD	RI	NATIONAL COASTAL MAPPING PROGRAM	\$4,875,000	\$7,500,000		\$7,500,000		Funds are being used to commence NCMP survey operations on the U.S. Great Lakes shorelines. These survey operations will collect the third consecutive engineering and environmental dataset for the Great Lakes (2006-2008 2011-2013 2018-2020)	
XX	IWR	RI	NATIONAL DAM SAFETY PROGRAM	\$7,650,000	\$13,900,000		\$13,900,000		Funds are being used for 51 Periodic Assessments that are planned to be conducted, representing about 7% of the Corps dams. Funds are being used also be used for program and quality management, training to maintain Corps staff technical competency, policy and guidance development, consistency reviews on SQRA and PA reports, responses to and implementation of IEPR comments, data management, risk assessments, and technical and programmatic support for dam safety activities.	
XX	HQ	RI	NATIONAL EMERGENCY PREPAREDNESS PROGRAM (NEPP)	\$4,500,000	\$4,500,000		\$4,500,000		Funds are being used to support Corps readiness to provide rapid response to disaster.	

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
XX	HQ	RI	NATIONAL NATURAL RESOURCES MANAGEMENT ACTIVITIES	\$3,330,000	\$3,330,000		\$3,330,000		Funds are being used for national recreation program initiatives such as the funding of: the park ranger uniform contract; a dozen "Handshake" partnership; the Water Safety MCX and associated national programs; environmental compliance work; the printing and publishing of NRM materials; support to volunteer clearinghouse; and a variety of sustainability work efforts including more energy audits, ESPC work, power purchase agreements, and data management to support USACE Sustainability Plan development and Scorecard submission.	
XX	IWR	RI	NATIONAL PORTFOLIO ASSESSMENT FOR REALLOCATION	\$500,000	\$500,000	\$70,000	\$570,000	6	Funds are being used to assess data and develop a consistent national approach to achieving consistent and sustainable water withdrawals (permanent reallocations and surplus water) including identification of status and challenges for USACE Reservoirs and to conduct initial assessments of pending reallocation requests.	Funds will be used for water supply corrective action plan to respond to audit reports.
XX	HQ	RI	PERFORMANCE BASED BUDGETING SUPPORT PROGRAM	\$2,000,000	\$3,000,000		\$3,000,000		Funds are being used for CEFMS modernization to provide automated capability to readily produce monthly/quarterly or annual execution and status of fund reports that will provide Public Law level detail data. Stakeholders will have access to modern enterprise financial reporting, data analytics and dashboards for management and transparency of Civil Works Programs and Projects. (\$1M); Funds will support performance based methods that enable budgeting of the hydropower program through better understanding of operation and maintenance impacts leveraging data analytics. (\$1M)	
XX	HQ	RI	PROJECT CONDITION SURVEYS (NATIONAL PROGRAM)	\$20,087,000	\$0		\$0			
XX	IWR	RI	RECREATION MANAGEMENT SUPPORT PROGRAM	\$1,400,000	\$1,400,000		\$1,400,000		Funds are being used to provide a nationwide funding source at HQUSACE for centralized procurement of these items used by all operating projects having a natural resources management program precludes the need for funds to be transferred by each project or district to a single procurement agent, a savings of from 60 to 300 transactions a year. Funding for these initiatives is sufficient to also cover the costs of the Recreation One-Stop Initiative, which was previously funded as a separate line item in the Budget.	
XX	ERDC	RI	REGIONAL SEDIMENT MANAGEMENT DEMONSTRATION PROGRAM	\$3,500,000	\$8,500,000		\$8,500,000		Funds are being used to coordinate Regional Sediment Management (RSM) efforts nationally to improve the management and use of sediments across multiple projects to benefit a region in support of the Civil Works mission. Develop and enhance tools and technologies for implementing RSM approaches; Update RSM database and web-based viewer of USACE navigation projects which utilized RSM principles/Beneficial Use in placing sediments. Participate in regional and national initiatives to promote the RSM concepts and approach; and Document successes, challenges and lessons learned through technical reports.	
XX	IWR	RI	RESPONSE TO CLIMATE CHANGE AT CORPS PROJECTS	\$0	\$5,000,000		\$5,000,000			Funds will be used to continue development and implementation of methods, tools, and approaches for risk-informed decision making to reduce known vulnerabilities of existing infrastructure to changing climate and avoid, to the extent possible, similar vulnerabilities for new projects across USACE business lines.

ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
XX	IWR	RI	REVIEW OF NON-FEDERAL ALTERATIONS OF USACE CIVIL WORKS PROJECTS	\$8,500,000	\$8,500,000		\$8,500,000		Funds are being used to enable the Corps to coordinate with the requester and review of the proposed alteration. Through Section 408 reviews, the Corps ensures that the alteration will not adversely impact the public interest and will not impair the usefulness of the authorized Corps project. The number of Section 408 requests in any year is dependent on many factors – primarily actions, schedules, and resources external to USACE. In its review of section 408 requests, the Corps considers a range of factors, such as the effects of the proposed alteration on the reduction of risk to life safety, the reduction of the risk of flood damages, the environment, the project's ability to meet its other authorized purpose(s), and tribal considerations.	
XX	HQ	RI	SCHEDULING OF RESERVOIR OPERATIONS	\$8,564,000	\$5,000,000		\$5,000,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	Water control manual updates for a non-Corps owned high hazard dam where: (1) the Corps has a responsibility for flood control operations under section 7 of the Flood Control Act of 1944; (2) the dam requires coordination of water releases with one or more other high-hazard dams for flood control purposes; and (3) the dam owner is actively investigating the feasibility of applying forecast-informed reservoir operations technology
XX	IWR	RI	STEWARDSHIP SUPPORT PROGRAM	\$900,000	\$900,000		\$900,000		Funds are being used to conduct focused management action studies and recommend guidance to address high priority program efficiency and effectiveness concerns, including responses to new protocols for asset and risk management, regulation changes, and administration priorities through the Stewardship Support Program (SSP). Efforts will continue in support of performance based budgeting, in monitoring program performance and risk analysis, and in development of strategies to improve program outputs and outcomes.	
XX	HQ	RI	SURVEILLANCE OF NORTHERN BOUNDARY WATERS (NATIONAL PROGRAM)	\$6,716,000	\$0		\$0			
XX	IWR	RI	SUSTAINABLE RIVERS PROGRAM (SRP)	\$500,000	\$5,000,000		\$5,000,000		Funds are being used to accomplish national and site work in accordance with the following SRP principles: 1) Build capacity within the water management community to implement environmental flows with little or no direct involvement of SRP resources; 2) Engage partners to focus on sustainability and avoid conflict, including Endangered Species Act (ESA) consultations; and 3) Advance innovative efforts to implement environmental flows.	
XX	MVD	RI	VETERAN'S CURATION PROGRAM AND COLLECTIONS MANAGEMENT	\$5,025,000	\$6,500,000		\$6,500,000		Funds are being used to implement the agency-wide long-term plan for the curation and collections management of Corps archeological collections through the Veterans Curation Program.	
XX	ERDC	RI	WATER OPERATIONS TECHNICAL SUPPORT (WOTS)	\$500,000	\$5,500,000		\$5,500,000		Funds are being used to provide effective environmental and water quality management technologies to address a wide range of issues at Corps reservoir and waterway projects, and in river systems nationwide. Funds are also used for research and development of Forecast Informed Reservoir Operations (FIRO), an effort investigating the feasibility of using predictive capabilities of atmospheric river events to inform reservoir operations at Corps dams in the Western United States	
XX	IWR	RI	WATERBORNE COMMERCE STATISTICS	\$4,200,000	\$4,200,000	\$470,000	\$4,670,000	2	Funds are being used to perform operation, maintenance and necessary enhancements of the nation's waterborne commerce, vessel and shipper data and statistics programs. Funds will also be used to increase project detail data requirements for budget submission and economic justification and to collaborate with partner agencies to improve navigation data from a Federal perspective including, acquiring and using software tools for program analysis, diagnostics and quality control.	Funds will be used to fully fund Waterborne Commerce Statistics requirements for navigation maintenance.
			1% SET ASIDE:			\$8,276,560				
			GRAND TOTAL:	\$2,856,946,450	\$2,962,344,000	\$827,656,000	\$3,790,000,000			

**ARMY CIVIL WORKS PROGRAM  
FY 2020 WORK PLAN - OPERATION AND MAINTENANCE**

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	FY 2020 PBUD	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2020 BUDGETED AMOUNT JUSTIFICATION	FY 2020 ADDITIONAL FUNDING JUSTIFICATION
-------	----------	------------------	--------------------	--------------	---------------------------------	-----------------------------	---	------------------------------------	--------------------------------------	--

1/ All Statement of Managers amounts are subject to a 1% statutory deduction for emergency activities; that rescission has already been applied to the "Additional Funding".

2/ In accordance with the O&M appropriation title in the Energy and Water Development Appropriations Act, 2020, Division C of Public Law 116-94, Further Consolidated Appropriations Act, 2020, one percent of each line item of additional funding provided for ongoing work in the O&M appropriation has been deducted for use on emergency activities.

3/ Funds were provided in the President's Budget but were not broken out by state.

2/ KEY:	Funding Pot Name for "Additional Funding"	Additional Funding Allocation	Total Allocations	Unallocated Funding (for 1%)
1	NAVIGATION MAINTENANCE	\$40,156,000	\$39,754,440	\$401,560
2	NAVIGATION MAINTENANCE (DEEP-DRAFT HARBOR AND CHANNEL)	\$532,500,000	\$527,175,000	\$5,325,000
3	DONOR AND ENERGY TRANSFER PORTS	\$50,000,000	\$49,500,000	\$500,000
4	NAVIGATION MAINTENANCE (INLAND WATERWAYS)	\$55,000,000	\$54,450,000	\$550,000
5	NAVIGATION MAINTENANCE (SMALL, REMOTE, OR SUBSISTENCE NAVIGATION)	\$65,000,000	\$64,350,000	\$650,000
6	OTHER AUTHORIZED PROJECT PURPOSES	\$85,000,000	\$84,150,000	\$850,000
	TOTAL:	\$827,656,000	\$819,379,440	\$8,276,560

ENR	AQUATIC ECOSYSTEM RESTORATION
ENS	ENVIRONMENTAL STEWARDSHIP
FDRR	FLOOD DAMAGE REDUCTION RIVERINE
FDRC	FLOOD DAMAGE REDUCTION COASTAL
FOTH	FLOOD DAMAGE REDUCTION OTHER
HYD	HYDROPOWER
JOINT	JOINT
NHS	COASTAL NAVIGATION SHALLOW DRAFT
NHD	DEEP DRAFT NAVIGATION COASTAL
NIH	INLAND WATERWAYS HIGH USE
NIL	INLAND WATERWAYS LOW USE
NOTH	NAVIGATION OTHER
REC	RECREATION
RI	REMAINING ITEM
WTR	WATER SUPPLY