

Department of Defense

**Details in support of the
FY 2018 Budget Amendment Request
for
Recovery from Hurricanes Harvey, Irma, and Maria**



Justification Material

November 2017

Department of Defense
Details in support of FY 2018 Budget Amendment Request
for Recovery from Hurricanes Harvey, Irma, and Maria

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OVERVIEW

The Department of Defense (DoD) estimates that it will incur \$1.2 billion in costs to respond to and recover from the catastrophic effects of hurricanes in the Atlantic and Gulf Regions during the 2017 hurricane season. It largely includes construction and repair costs for facilities damaged or destroyed by Hurricanes Harvey, Irma, and Maria. These hurricanes damaged or destroyed DoD facilities in Florida, Georgia, South Carolina, Texas, Puerto Rico, and the U.S. Virgin Islands.

Specifically, the Department's emergency hurricane recovery request includes:

- \$416 million of funding for Operation and Maintenance (O&M) and Working Capital Fund accounts to restore damaged facilities, outfit facilities that will be replaced, and reinstall equipment taken down prior to hurricane landfall. Included in this amount is \$25 million in 2-year O&M funding to implement repairs in Puerto Rico and the U.S. Virgin Islands that cannot be addressed until FY 2019 due to limited construction capacity on the islands.
- \$26 million of Procurement funding to replace equipment destroyed by the hurricanes.
- \$721 million of Military Construction funding to replace facilities that are damaged beyond reasonable repair or destroyed as a result of the high winds, rain and flooding associated with Hurricanes Harvey, Irma, and Maria. This request will provide the resources required to finance the planning, design and construction of replacement facilities. Long-standing needs unrelated to disaster recovery from the hurricanes are excluded.

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The following table provides a summary of the DoD estimated costs for hurricane recovery by appropriation.

Summary of Costs by Appropriation
(Dollars in Millions)

Appropriation	FY 2018
Operation and Maintenance, Army	20.1
Operation and Maintenance, Navy	267.8
Operation and Maintenance, Marine Corps	17.9
Operation and Maintenance, Air Force	20.9
Operation and Maintenance, Defense-Wide	2.7
Operation and Maintenance, Army Reserve	12.5
Operation and Maintenance, Navy Reserve	2.9
Operation and Maintenance, Air Force Reserve	5.8
Operation and Maintenance, Army National Guard*	55.5
Defense Health Program	0.7
Total, Operation and Maintenance	406.8
Other Procurement, Navy	25.8
Total, Procurement	25.8
Military Construction, Navy	201.6
Military Construction, Army National Guard	519.3
Total, Military Construction	720.9
Working Capital Fund, Navy	9.5
Total, Working Capital Fund	9.5
Grand Total	1,163.0

* Request includes 2-year O&M, Army National Guard authority for \$24.7 million for facility repairs in Puerto Rico and the U.S. Virgin Islands.

Additional budget line item details by appropriation are included in the C-1, O-1, P-1, and RF-1 documents that have been provided separately and are posted to the Office of the Under Secretary of Defense (Comptroller) website at:

<http://comptroller.defense.gov/Budget-Materials/Budget2018/>

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The following table provides a summary of the DoD estimated costs for hurricane recovery by cost category.

Summary of Costs by Category
(Dollars in Millions)

Cost Category	FY 2018
Military Construction	721.0
Facility Repair*	392.8
Replacement of Equipment	25.8
Facility Initial Outfitting & Transition	17.5
Asset Protection	6.0
Total	1,163.0

* Request includes 2-year O&M, Army National Guard authority for \$24.7 million for facility repairs in Puerto Rico and the U.S. Virgin Islands.

The Department's estimated costs for recovery from damage caused by Hurricanes Harvey, Irma, and Maria are summarized in the following categories:

- Major Construction: Major military construction projects to replace DoD facilities that are damaged beyond repair.
- Facility Repair: Repair projects funded in the Operation and Maintenance accounts to address repairable damages to DoD facilities, grounds, and infrastructure.
- Replacement of Equipment: Costs to replace or repair equipment damaged or destroyed by the hurricanes.
- Facility Initial Outfitting & Transition: Required support to equip newly constructed buildings and provide transition services to occupants – includes costs to purchase furniture, fixtures, and other facility equipment.
- Asset Protection: Costs associated with the protection of DoD assets during the hurricanes.

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The following tables provide a summary of the DoD estimated costs for hurricane-related repairs and military construction projects by state/territory.

Summary of Repair Projects by State/Territory
(Dollars in Millions)

State/Territory	FY 2018
Florida	171.0
Georgia	55.4
Louisiana	0.2
South Carolina	3.6
Texas	66.0
Puerto Rico*	50.2
U.S. Virgin Islands*	20.1
 Facility Repair - Planning and Design	 26.3
 Total	 392.8

* Request includes 2-year O&M, Army National Guard authority for \$24.7 million for facility repairs in Puerto Rico and the U.S. Virgin Islands.

Summary of Military Construction Projects by State/Territory
(Dollars in Millions)

State/Territory	FY 2018/22
Florida	128.7
Texas	58.0
Puerto Rico	458.1
U.S. Virgin Islands	22.8
 Construction - Planning and Design	 53.4
 Total	 721.0

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Detailed Justification by Appropriation

OPERATION AND MAINTENANCE

Account Title: Operation and Maintenance, Army
Agency Name: Department of Defense
Bureau Name: Operation and Maintenance
Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$20.110
Repair Facilities (SAG 132)	Federal Real Property	\$20.110

Description of Request:

Repair Facilities: Funds are requested to repair facilities and infrastructure at Corpus Christi Army Depot, TX (CCAD), and Fort Benning, GA. Damages were sustained to 27 buildings at CCAD, with cost estimates ranging from \$5 thousand up to \$8.8 million for damages to a single building. The majority of the damage was related to roofs, doors, gutters, windows, ceiling tiles and some damage to interior walls due to water intrusion. Repairs at Fort Benning are required for roof damage and severe damage to irrigation systems at Camp Merrill, which are necessary for the proper operation and environmental compliance of sanitation services.

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Account Title: Operation and Maintenance, Navy
 Agency Name: Department of Defense
 Bureau Name: Operation and Maintenance
 Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$267.796
Repair Facilities (SAG BSM1)	Federal Real Property	\$244.310
Initial Outfitting & Transition (SAG BSS1)	Equipment	\$17.486
Asset Protection (SAG 1B4B)	Base Activities	\$6.000

Description of Request:

Repair Facilities: Funds are requested to repair Navy facilities in Florida, Georgia, Texas, and Puerto Rico.

- Extensive damage in Georgia (Submarine Base Kings Bay) requires \$55.3 million in funding for 124 projects to address roof, siding, and water damaged facilities and includes projects to repair damaged and destroyed docks, wharfs, and roads.
- Navy facilities in Florida (Cape Canaveral, Jacksonville, and Key West) require \$113.8 million in funding for 352 repair projects. Most projects repair damages to roofs, siding, and facility interiors that were damaged by water intrusion. Other projects driving significant costs address drainage pipe failures, sinkholes, shoreline erosion, and pier repairs.
- Damage to facilities in Texas (Corpus Christi and Kingsville) requires \$41.6 million in funding for 84 repair projects. In addition to roof and water intrusion repairs, these projects address repairs to seawalls, hangars, and ramps that are essential to meeting mission requirements.
- Facilities in Puerto Rico (Aguada, Fort Allen, Juana Diaz, Mount Pirata, and Vieques) require \$7.3 million in funding for 28 repair projects. In addition to roof and other exterior repairs, these projects will repair generator facilities, security fencing, antenna/transmitter arrays, and installation utilities.
- Funding in the amount of \$26.3 million is required for facility planning and design associated with Navy repair projects.

Initial Outfitting and Transition: Funds requested are needed to provide office furniture and facility operations equipment for military construction projects.

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Asset Protection: Funds requested to reinstall scaffolding at shipyards that were removed to prevent potential damage to ships from flying scaffolding debris. The scope of work is outside of the current contract.

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Account Title: Operation and Maintenance, Marine Corps
 Agency Name: Department of Defense
 Bureau Name: Operation and Maintenance
 Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$17.920
Repair Facilities (SAG BSM1)	Federal Real Property	\$17.920

Description of Request:

Repair Facilities: Funds are requested to repair Marine Corps facilities in Florida and South Carolina. Facilities at Blount Island, FL; Marine Corps Air Station Beaufort, SC; and Parris Island, SC, sustained major damage from Hurricane Irma.

- \$17.9 million for 11 projects are required to repair roofs, siding, shorelines, docks, fencing, and electrical systems.
- Damages are a direct result of sustained high winds, water intrusion, and storm surge.

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Account Title: Operations and Maintenance, Air Force
 Agency Name: Department of Defense
 Bureau Name: Operation and Maintenance
 Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$20.916
Repair Facilities (SAG 011R)	Federal Real Property	\$20.916

Description of Request:

Repair Facilities: Funds requested to repair Air Force facilities in Florida, South Carolina, and Texas.

- Damage to Air Force facilities in Florida (Avon Park, MacDill Air Force Base, and Patrick Air Force Base) requires \$20.3 million for 99 repair projects. These projects address installations with damaged roofs, gutters, siding, and include significant efforts to repair runways, beach erosion, and road/dike washouts.
- \$0.1 million for 16 projects are required in Texas (Joint Base San Antonio) to repair roof leaks, window damages, and damaged boundary fences.
- \$0.5 million for 2 repair projects are required in South Carolina (Joint Base Charleston) to repair roof damages and interior water damages.

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Account Title: Operations and Maintenance, Defense-Wide
 Agency Name: Department of Defense
 Bureau Name: Operation and Maintenance
 Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$2.650
Department of Defense Education Activity - Repair Facilities (SAG 4GTJ)	Federal Real Property	\$1.700
Office of the Secretary of Defense (Civil Military Programs) – Repair Facilities (SAG 4GT3)	Federal Real Property	\$0.950

Description of Request:

Department of Defense Education Activity

Repair Facilities: Funds are requested to repair roofing, fencing, and metal flashing of damaged education facilities at Fort Buchanan and the U.S. Coast Guard Air Station (Ramey Unit School), Puerto Rico.

Office of the Secretary of Defense (Civil Military Programs)

Repair Facilities: Funds are requested to repair ChalleNGe Academy and STARBASE facilities in Houston, TX (\$0.1 million); Carolina, Puerto Rico (\$0.2 million); and Juana Díaz, Puerto Rico (\$0.7 million). These facilities sustained roof, fencing, and other structural damages.

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Account Title: Operation and Maintenance, Army Reserve
 Agency Name: Department of Defense
 Bureau Name: Operation and Maintenance
 Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$12.500
Repair Facilities (SAG 132)	Federal Real Property	\$12.500

Description of Request:

Repair Facilities: Funds are requested to repair the water distribution system at Fort Buchanan in San Juan, Puerto Rico. Repair to the damaged sections of the water distribution system and replacement of water pumps are required to restore adequate water pressure on Fort Buchanan and to ensure secure and reliable clean water. Additionally, damage to the roof resulted in leaks throughout the on-site administrative building.

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Account Title: Operation and Maintenance, Navy Reserve
 Agency Name: Department of Defense
 Bureau Name: Operation and Maintenance
 Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$2.922
Repair Facilities (SAG BSMR)	Federal Real Property	\$2.922

Description of Request:

Repair Facilities: Funds are requested to repair Navy Reserve facilities in Florida and Puerto Rico.

- \$1.8 million is required for two repair projects at Naval Operations Support Center (NOSC) West Palm Beach, FL, to repair exterior building damages and address water intrusion.
- \$1.1 million is required for nine repair projects at NOSC Puerto Rico due to sustained damage from Hurricane Irma. Permanent repairs are needed for the Command Headquarters and Vehicle Maintenance buildings on base. Facilities in NOSC Puerto Rico also sustained major damage from Hurricane Maria. Repairs are needed for multiple buildings, covered walkways, operational storage units, handrails, drop arms, and HVAC systems.

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Account Title: Operations and Maintenance, Air Force Reserve
 Agency Name: Department of Defense
 Bureau Name: Operation and Maintenance
 Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$5.770
Repair Facilities (SAG 011R)	Federal Real Property	\$5.770

Description of Request:

Repair Facilities: Funds are requested to repair Air Force Reserve facilities at Homestead Air Reserve Base in Florida. Hurricane damages include various roof and structural damages, plus plumbing, electrical, and mechanical issues requiring repair.

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Account Title: Operation and Maintenance, Army National Guard
 Agency Name: Department of Defense
 Bureau Name: Operation and Maintenance (1-Year)
 Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$30.780
Repair Facilities (Line 132)	Federal Real Property	\$30.780

Description of Request:

Repair Facilities: Funds are requested to repair Army National Guard facilities in Florida, Louisiana, Texas, Puerto Rico, and the U.S. Virgin Islands.

- 23 repair projects totaling \$5.3 million are required in Florida. While the majority of project efforts will address roof damage from sustained high-speed winds, additional repairs are required to repair fences, broken windows, roads, and culvert systems.
- 4 projects totaling \$0.2 million are required in Louisiana to address damages to roofs, side wall building leaks, interior water damage, and cleanup of installation grounds.
- 18 projects totaling \$3.5 million are required for facilities in Texas that sustained damage from Hurricane Harvey. Significant repairs are needed to address damaged mechanical, electrical and plumbing components, roof damage, and interior water damage.
- 21 projects in Puerto Rico (\$10.5 million) and the U.S. Virgin Islands (\$11.3 million) are projected to be completed in FY 2018. Efforts include repairs to address roof damage from sustained high-speed winds, repairs to water damaged building interiors, road and parking lot repairs, and installation grounds cleanup.

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Account Title: Operation and Maintenance, Army National Guard
 Agency Name: Department of Defense
 Bureau Name: Operation and Maintenance (2-Year)
 Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$24.691
Repair Facilities (SAG 132)	Federal Real Property	\$24.691

Description of Request:

Repair Facilities: Funds are requested for additional repair efforts in Puerto Rico and the U.S. Virgin Islands. The Department is seeking \$24.7 million with a requested 2-year period of availability for 24 additional projects. These projects will address facilities and installations requiring roof, window, gutter, utility, fencing, heating, ventilation, and air conditioning (HVAC), electrical system, storm water, and sewer repairs.

Due to the scope of the repairs and the limited construction capacity on the islands, these projects are likely to begin in FY 2019.

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Account Title: Defense Health Program
Agency Name: Department of Defense
Bureau Name: Operation and Maintenance
Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$0.704
Repair Facilities (BAG 7)	Federal Real Property	\$0.704

Description of Request:

Repair Facilities: Funds are requested for three repair projects in Texas, Florida, and Puerto Rico. Repairs are required at Naval Air Station Corpus Christi, TX; Naval Air Station Key West, FL; and Fort Buchanan in San Juan, Puerto Rico, to address damages to roofs, building exteriors, and interior features damaged by water intrusion.

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PROCUREMENT

Account Title: Other Procurement, Navy
 Agency Name: Department of Defense
 Bureau Name: Procurement
 Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$25.750
Submarine Broadcast Support Line 92; BLI 3107	Equipment	\$15.000
Command Support Equipment Line 146; BLI 8106	Equipment	\$7.650
Physical Security Equipment Line 154; BLI 8106	Equipment	\$3.1000

Description of Request:

Replace Equipment: Hurricane Harvey, Irma and Maria caused severe damage to many naval facilities, which will need to be repaired and replaced. As a direct result of that work to be done, those facilities will require funding to finance equipment to outfit support for the buildings receiving Facilities Sustainment, Restoration and Modernization (FSRM) and/or new construction (MILCON). Items needing purchase include: physical security equipment, industrial plant equipment, unit stock equipment, intrusion detection system, electronic security system, furnishings, and fixtures.

In addition to outfitting, major damage was done to the Submarine Broadcast Network in Aguada, Puerto Rico. The Tower Lighting Isolation Transformer (TLIT) and AN/FRT-95D solid-state transmitter along with the insulator associated with the unit will have to be replaced.

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MILITARY CONSTRUCTION

Account Title: Military Construction, Navy
Agency Name: Department of Defense
Bureau Name: Military Construction
Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$201.636
Military Construction	Federal Real Property	\$186.700
Planning and Design	Federal Real Property	\$14.936

Description of Request:

Military Construction: Provides \$58.0 million in funding for two heavily damaged facilities located at Naval Air Station (NAS) Corpus Christi, TX; and \$128.7 million in funding for three heavily damaged facilities at NAS Key West, FL. The recapitalization of these facilities is critical to ensure force readiness, health and safety. These facilities are necessary to support operations and flight training, storage of hazardous waste, protection of aircraft, fire protection, and lodging. See Appendix B for further details.

Planning and Design: Funds are also required to perform design and engineering services as well as construction agent oversight in preparation for construction contract award.

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Account Title: Military Construction, Army National Guard
 Agency Name: Department of Defense
 Bureau Name: Military Construction
 Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$519.345
Military Construction	Federal Real Property	\$480.875
Planning and Design	Federal Real Property	\$38.470

Description of Request:

Military Construction: Provides \$458.1 million in funding for ten heavily damaged facilities in Puerto Rico (Camp Santiago, Army Aviation Support Facility San Juan, and Army National Guard Armories Arroyo and Gurabo) and \$22.8 million in funding for two heavily damaged facilities in the U.S. Virgin Islands (Estates Bethlehem and Nazareth). The recapitalization of these facilities is critical to ensure force readiness, health and safety. These facilities are necessary to support aviation and vehicle maintenance, base and combat operations, utilities, and housing for assigned personnel. See Appendix B for further details.

Planning and Design: Funds are also required to perform design and engineering services as well as construction agent oversight in preparation for construction contract award.

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WORKING CAPITAL FUND

Account Title: Working Capital Fund, Navy
Agency Name: Department of Defense
Bureau Name: Working Capital Fund
Subcommittee: Defense

Funding Table (BA in Millions of Dollars)

Program/Activity	Category Code	Additional 2018 Funds needed for Hurricane Response and Recovery
Account Total		\$9.486
Repair Facilities	Federal Real Property	\$9.486

Description of Request:

Repair Facilities: A waste water treatment facility in Naval Air Station (NAS) Corpus Christi, TX, was severely damaged from Hurricane Harvey. Repairs needed total \$0.3 million and include: roofing; windows; Heating, Ventilation, Air Conditioning (HVAC) system; plumbing; electrical and conveyance; mold remediation and restoration of interior finishes degraded by water damage.

Facilities at NAS Key West, FL; Submarine Base Kings Bay, GA; and NAS Jacksonville, FL, also sustained damage from Hurricane Irma. Repairs needed total \$9.2 million and include: roofing, siding, electrical systems, HVAC systems, and interior damage due to winds, water intrusion, and storm surge.

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Appendix A – Repair Projects by City/Installation

Appropriation	State/Territory	Location	Number of Projects	Cost Estimate (\$ Thousands)
O&M, Army	Georgia	Fort Benning	2	110
	Georgia Total		2	110
	Texas	Corpus Christi	1	20,000
	Texas Total		1	20,000
	O&M, Army Total		3	20,110
O&M, Navy	Georgia	St. Marys	124	55,316
	Georgia Total		124	55,316
	Florida	Cape Canaveral	54	5,193
		Jacksonville	161	49,016
		Key West	137	59,554
		Florida Total	352	113,764
	Texas	Corpus Christi	75	41,122
		Kingsville	9	510
	Texas Total		84	41,632
	Puerto Rico	Aguada	14	5,552
		Juana Diaz	3	23
		Vieques	11	1,705
	Puerto Rico Total		28	7,279
Various	Various - Facility Planning & Design	1	26,320	
Various Total		1	26,320	
O&M, Navy Total		589	244,310	
O&M, Marine Corps	Florida	Jacksonville	6	14,762
	Florida Total		6	14,762
	South Carolina	Beaufort	3	320
		Parris Island	2	2,838
	South Carolina Total		5	3,158
O&M, Marine Corps Total		11	17,920	
O&M, Air Force	Florida	Avon Park	38	2,792
		MacDill AFB	60	7,542
		Patrick AFB	1	10,000
	Florida Total		99	20,334
	Texas	San Antonio	16	112
	Texas Total		16	112
South Carolina	Charleston	2	470	
South Carolina Total		2	470	
O&M, Air Force Total		117	20,916	
O&M DW (DoDEA)	Puerto Rico	Borinquen	3	500
		San Juan	4	1,200
	Puerto Rico Total		7	1,700
O&M DW (DoDEA) Total		7	1,700	

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Appropriation	State/Territory	Location	Number of Projects	Cost Estimate (\$ Thousands)	
O&M, DW (Civil Military Programs)	Texas	Ellington Field	1	100	
	Texas Total		1	100	
	Puerto Rico	Carolina	1	200	
		Juana Díaz	1	650	
	Puerto Rico Total		2	850	
O&M, DW (Civil Military Programs) Total			3	950	
O&M, Army Reserve	Puerto Rico	Puerto Rico	1	4,000	
		San Juan	1	8,500	
	Puerto Rico Total		2	12,500	
O&M, Army Reserve Total			2	12,500	
O&M, Navy Reserve	Florida	West Palm Beach	2	1,805	
	Florida Total		2	1,805	
	Puerto Rico	San Juan	9	1,117	
	Puerto Rico Total		9	1,117	
O&M, Navy Reserve Total			11	2,922	
O&M, Air Force Reserve	Florida	Homestead	12	5,770	
	Florida Total		12	5,770	
O&M, Air Force Reserve Total			12	5,770	
O&M, Army National Guard	Florida	Avon Park	1	315	
		Brooksville	2	63	
		Deland	1	105	
		Ft. Lauderdale	1	210	
		Haines City	2	578	
		Jacksonville	1	21	
		Live Oak	1	53	
		MacDill AFB	1	21	
		Miami	1	21	
		Miramar	1	53	
		Ocala	1	105	
		Orlando	1	53	
		Palatka	1	53	
		Plant City	1	21	
		Sanford	1	53	
		St. Petersburg	1	53	
		Starke	3	3,386	
		Wauchula	1	105	
		Winter Haven	1	53	
		Florida Total		23	5,318
		Louisiana	Abbeville	1	16
			Coushatta	1	16
		Lake Charles	1	184	

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Appropriation	State/Territory	Location	Number of Projects	Cost Estimate (\$ Thousands)
		Natchitoches	1	5
O&M, Army National Guard	Louisiana Total		4	221
	Texas	Angelton	2	211
		Austin	1	126
		Camp Swift	1	158
		Corpus Christi	1	368
		El Campo	1	200
		Ellington Field	3	846
		Houston	1	3
		Huntsville	1	5
		La Marque	1	300
		La Porte	1	100
		Martindale	1	300
		Rosenberg	1	100
		San Antonio	1	300
		Seguin	1	368
		Victoria	1	100
	Texas Total		18	3,482
	Puerto Rico	Aguadilla	2	227
		Arecibo	1	113
		Arecibo	1	113
		Cabo Rojo	1	170
		Coamo	1	113
		Guayama	1	113
		Guaynabo	5	2,920
		Humacao	1	4,531
		Mayaguez	1	170
		Peñuelas	1	170
		Ponce	2	283
		Salinas	2	3,398
		Salinas	3	8,381
		San Juan	4	3,049
		San Juan	1	2,265
		Toa Baja	1	113
		Utuaado	1	113
		Vega Baja	1	113
	Puerto Rico Total		30	26,357
	Virgin Islands	Kingshill	8	5,975
		St. Croix	6	11,854
		St. Thomas	1	2,265
	Virgin Islands Total		15	20,094
O&M, Army National Guard Total			90	55,472
Defense Health Program	Florida	Key West	1	54
	Florida Total		1	54
	Texas	Corpus Christi	1	300
	Texas Total		1	300

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Defense Health Program	Puerto Rico	San Juan	1	350
	Puerto Rico Total		1	350
Defense Health Program Total			3	704
Working Capital Fund, Navy	Florida	Jacksonville	2	2,306
		Key West	5	6,855
	Florida Total		7	9,161
	Texas	Corpus Christi	1	325
	Texas Total		1	325
Working Capital Fund, Navy Total			8	9,486

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Appendix B – Military Construction Project Detail
(\$ in Millions)

Military Construction, Navy

201.6

Additional funding of \$201.6 million is required by the Navy for the planning, design and construction of facilities and infrastructure projects at Naval Air Station (NAS), Key West, Florida and NAS Corpus Christi, Texas. Severe winds and water intrusion have damaged these facilities beyond repair, and they are recommended for demolition and replacement.

Naval Air Station, Key West, Florida

Navy Gateway Inn & Suites (NGIS) Facility

68.2

Funds are required to replace three existing lodging facilities (A-648, A-649, A-727) totaling 114,304 square feet (328 beds) that suffered significant damage during Hurricane Irma. Constructing a consolidated lodging facility will result in the ability to meet current lodging standards to support the installations mission.

The current NGIS facilities sustained substantial damage during Hurricane Irma to include damage to the roof, exterior walls, windows, and interior finishes. As a direct result of the storm damage, on top of years of under investment, the quality-of-life and morale of the sailors who stay at the NGIS under these conditions is substandard. Estimates to repair the existing facilities are in excess of \$20 million. Investment to repair the existing facilities, which have exceeded the initial life cycle timeline, is not economically prudent. Repairs would not result in facilities that would meet current mission needs and would continue to violate the air compatible use zones (AICUZ) criteria. The buildings sustained structural damages and significant water intrusion and rooms cannot be used to accommodate guests due to safety and health issues. Because of this, the installation is unable to meet the current demand for 1,200 beds to support squadrons and other commands.

Construction Award Date: 15 MAY 2019

Construction Start Date: 14 MAY 2020

Construction End Date: 14 MAY 2022

Replace Aircraft Maintenance Hangar

52.0

Funds are required to construct a new aircraft maintenance hangar to replace Hangar A-936, which sustained significant damage from Hurricane Irma. By constructing a new 110,140 square foot aircraft maintenance hangar, 7,285 square feet of administrative office and 960 square feet of storage facilities are demolished, with functions consolidated into a single facility. The total square foot reduction is 6,632 square feet.

The effects of Hurricane Irma exacerbated chronic material conditions with the facility. As a direct result of the storm damage, in addition to a lack of investment, the maintenance

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mission throughput and quality is affected, which directly affect the readiness of assigned aircraft. The current aircraft maintenance hangar sustained substantial damage to include damage to the roof, exterior wall, windows, interior finishes, and cracking in structural support columns. Mold is present throughout the hangar facility. The replacement project will construct a more survivable operations facility to meet current design standards.

Construction Award Date: 15 MAY 2019

Construction Start Date: 14 MAY 2020

Construction End Date: 14 MAY 2022

Trumbo Point Annex Fire Station

8.5

Funds are required to replace a fire station located in Building C-1, which was severely damaged by Hurricane Irma. The newly constructed fire station will be located in a facility designed to provide resiliency and adequate response to emergencies at Trumbo Point and Sigsbee Annex.

Hurricane Irma caused significant damage to facilities proposed for replacement/consolidation totaling \$11.8 million. As a direct result of the storm damage, the firefighting capacity and quality is significantly eroded, directly impacting all assigned personnel and facilities at Trumbo Point and Sigsbee Annex within Naval Air Station Key West, FL. The fire station spaces were completely destroyed and the fire company has taken refuge in a morale/welfare/recreation rental in the vicinity of the damaged station.

The existing fire/rescue station sustained significant damage including exterior closure damage, missing exterior wall panels, broken windows, roofing and gutter damage requiring replacement, interior office damage, inoperability of hangar bay door, and electrical damage to lighting systems. The existing fire station is located in a World War II sea plane hangar built in 1940 that primarily serves as storage; the facility is 77 years old and well past its service life requiring substantial repair to be fully utilized.

Construction Award Date: 28 APR 2019

Construction Start Date: 25 JAN 2020

Construction End Date: 24 JAN 2022

Naval Air Station, Corpus Christi, Texas

Consolidate Squadron Operations & Flight Training Building

53.0

Funds are required to construct a new consolidated Squadron Operations, Academic and Applied Flight Instruction Facility to eliminate deficiencies created by damage from Hurricane Harvey, existing failed facility conditions, and a red capability gap in Chief of Naval Air Training (CNATRA)'s pilot training program. The new facility will consolidate primary and advanced aviator training functions and squadron operations, from multiple

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buildings and hangar lean-to's, into a single facility adjacent to the airfield. The project will also reduce over 20% in building square footage by demolishing 75-year old substandard facilities.

The roofs on Buildings 89 and 1824 were blown off, allowing severe water intrusion and extensive interior damage. Building 89, built in the 1940s, was damaged to the extent that it is no longer habitable. Subsequent rain storms since Harvey have flooded the interior of the building and caused additional damage. Occupants from Training Air Wing 4, CNATRA, and the Flight Instructor Training Unit (FITU) have been relocated from Building 89 to other over-crowded facilities to enable mission support. As a direct result of the storm damage, training throughput and quality is affected, directly impacting the pipeline of T-6 aviation as well as the quality of life/morale of the displaced units. The project will remove aviator training from 75-year old facilities that are of no historic value, in failing condition, and full of asbestos and lead.

By consolidating the training squadrons, significant operational savings will be realized by reducing transit times between training rooms, briefing/de-briefing rooms, equipment issue, and the flight line. The project consolidates all instructors into the same building for further resource sharing and cost avoidance, and implements facility support requirements for the Joint Primary Training System (JPATS).

Construction Award Date: 30 NOV 2018
Construction Start Date: 24 JAN 2020
Construction End Date: 23 JAN 2022

Hazardous Waste Storage and Transfer Facility

5.0

Funds are required to construct a new facility to replace Building 257, which was significantly damaged by Hurricane Harvey. The project will construct a new Hazardous Waste Storage & Transfer Facility, demolish Building 257 and upgrade the Hazardous Waste Management Building. It constructs a one-story structural steel frame building for storage and transfer of hazardous materials. Design elements and materials include, but are not limited to, a metal roof, segregated storage bays, concrete slab and berm, hook-ups for electrical, water, industrial wastewater floor drains, energy efficient lighting, emergency showers/eyewash station and a dry sprinkler system.

Building 257, the single long-term hazardous waste storage facility, experienced significant roof damage and water intrusion damage from Hurricane Harvey; directly impacting life safety, facility condition, and mission capability. As a direct result of the storm damage, in addition to a lack of investment, waste storage and transfer throughput on the installation is directly affected and the current situation compromises the health of the personnel performing this critical function. Corpus Christi Army Depot is the sole Army Depot level maintenance for all rotary aircraft, a working capital fund entity

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operating in excess of \$2 billion annually with over 5,000 employees working in three shifts. Without a storm-protected long-term hazardous waste storage site, essential operations would incur increased costs in operating, packaging, certifying and disposing of waste, including an increase in installation manning for oversight. The existing facility poses a risk assessment code 3, moderate risk to life safety and health, with significant severity of hospitalized minor and/or irreversible illness. A more survivable facility constructed to current design standards is required. Replacing the existing building with a design for storm, flooding, and hurricane surge protection will ensure protection from contamination of ground, groundwater and Corpus Christi Bay (Gulf), while also permitting continued critical missions to operate 24/7 with maximum efficiency.

Construction Award Date: 30 NOV 2018
Construction Start Date: 01 DEC 2019
Construction End Date: 30 NOV 2020

Planning and Design (P&D) 14.9
P&D for military construction projects identified in this request.

Total Navy 201.6

Military Construction, Army National Guard 519.3

Additional funding of \$519.3 million is required by the Army National Guard for the planning, design and construction of facilities and infrastructure projects in Puerto Rico and the Virgin Islands. Severe winds and water intrusion have damaged these facilities beyond repair, and they are recommended for demolition and replacement.

Arroyo, Puerto Rico

Readiness Center 31.9

Funds are required to construct an Army National Guard (ARNG) Readiness Center capable of supporting personnel, equipment and training readiness of the units assigned. ARNG Readiness Center serves as mobilization platform during Federal and State activation of ARNG troops. The facility serves as a headquarters for organizations and provides support to the community. Functional areas included are assembly space, classrooms, distributive learning centers, locker rooms, physical fitness area, kitchen, weapons and protective masks storage, other storage.

The existing readiness center facility sustained significant damage that included near 100% damage to the roof and significant interior damage which compromised the buildings

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electrical and mechanical systems. Damage estimates are estimated at 75% of the Plant Replacement Value; a complete rebuild is required.

Construction Award Date: July 2019

Construction Start Date: September 2019

Construction End Date: September 2021

Camp Santiago, Salinas, Puerto Rico

Consolidated Dining Facilities

23.4

Funds are required to construct consolidated dining facilities at the training site into two service facilities with a total capacity of 400 personnel. This project replaces seven heavily damage facilities that are inadequate and do not meet current standards. Damage to these facilities exceed the plant replacement value.

Construction Award Date: December 2018

Construction Start Date: February 2019

Construction End Date: February 2020

Consolidated Headquarters Facility

56.3

Funds are required to construct a Camp Santiago Training Site Headquarters facility which will support individual and collective training as well as administrative, automation and communications, and logistical requirements for the Army National Guard (ARNG). Camp Santiago stationed training support units are housed in inadequate facilities that sustained heavy damage. These facilities need to be consolidated into a training site headquarters facility hardened and capable of managing on site operations and training, as well as serve as a base to organize and deploy forces for future emergencies.

Construction Award Date: July 2019

Construction Start Date: September 2019

Construction End Date: September 2021

Electric & Communication Replacement & Hardening

31.9

Funds are required to replace electrical and communication infrastructure for the Camp Santiago Training Site. This project relocates existing damaged overhead utility lines underground where they will be protected from wind damage. It hardens electrical switch facilities and consolidate installation power to one central point allowing supply from the public utility or central backup generator. The emergency power supply includes engine generators and switchgear with automatic start and switchover to standby generator upon failure of the normal power source.

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The existing electrical distribution system is heavily damaged. Damages to power distribution are greater than 50% of the plant replacement value.

Construction Award Date: April 2018

Construction Start Date: June 2018

Construction End Date: January 2019

Facility Engineer Maintenance Shop

10.0

Funds are required to construct a Department of Public Works (DPW) Facility to support administrative functions, shops, and material warehousing since the existing facility was heavily damaged. Damages exceed the plant replacement value. DPW lacks adequate facilities to support required shops and warehousing for the Camp Santiago training site.

Construction Award Date: December 2018

Construction Start Date: February 2019

Construction End Date: February 2020

Maneuver Area Training Equipment Site (MATES)

53.1

Funds are required to construct a facility which supports all levels of maintenance for a centralized equipment training set for the National Guard. Supporting facilities include equipment storage, staging, wash, and inspection facilities for maintenance, issue, and turn in of equipment.

Nearly all of the MATES facility roofs are compromised; 39 of the 42 bays had severe damage. Damage estimates exceed the plant replacement value. The shops were compromised and sustained substantial water damage, as well as structural damage due to the compromised roof and doors. The current facility is functionally obsolete and does not adequately support mission requirement. New construction is required to correct functional and life safety deficiencies.

Construction Award Date: December 2018

Construction Start Date: February 2018

Construction End Date: August 2019

Operations, Administrative, and Supply Facilities

42.5

Funds are required to construct replacement facilities for three battalion and six company headquarters facilities. The project includes associated administrative, supply and training spaces. This project replaces heavily damage facilities that are inadequate and do not meet current standards. Damage to these facilities exceed the plant replacement value.

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Construction Award Date: December 2018

Construction Start Date: February 2019

Construction End Date: February 2020

Transient Training Barracks

106.2

Funds are required to construct a transient training barracks facility to replace the heavily damaged barracks complex area of the existing training site. This project replaces 1,000 barracks spaces and rehabilitates ~500 barracks spaces that received damage (to include damaged toilet/shower facilities). This project also provides facilities for soldiers and response personnel to safely conduct operations for future hurricane events. The repairs to the barracks exceed the cumulative plant replacement value of the barracks structures; two thirds of the barracks cannot be repaired. The current barracks inventory is ~1700 spaces.

Construction Award Date: December 2019

Construction Start Date: February 2020

Construction End Date: February 2022

San Juan, Puerto Rico

Army Aviation Support Facility

51.0

Funds are required to construct an aviation maintenance facility to include an aircraft maintenance hangar, administrative space, shops, controlled humidity storage and other required supporting facilities. The current facility was heavily damaged losing significant portions of the roof and the hangar doors; repair is not conducive given the existing facility age and condition. The existing facility is inadequate for support of the current aviation force structure and was designed to support UH-1 72 Huey aircraft. Additionally, new facilities require hardening as two aircraft were heavily damaged when the facility structure was compromised. Repair estimates equal or exceed the plant replacement value.

Construction Award Date: July 2019

Construction Start Date: September 2019

Construction End Date: September 2021

Gurabo, Puerto Rico

Vehicle Maintenance Shop

51.7

Funds are required to construct a replacement facility for the existing Field Maintenance Shop including required supporting facilities to provide regional maintenance support for combat and tactical vehicles. The facility sustained significant damage which includes near 100% damage to the roof and overhead doors. Damage estimates exceed the plant

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replacement value. The existing facility is outdated and nearing the end of its useful life and should be replaced.

Construction Award Date: July 2019
Construction Start Date: September 2019
Construction End Date: September 2021

Bethlehem, Virgin Islands

Electric Replacement & Harden 3.7

Funds are required to replace damaged electrical and communication lines, install backup power supply, and supporting switchgear for the site. Relocate existing damaged overhead utility lines underground where they will be protected from wind damage. Consolidate installation power to one central point allowing supply from the public utility or central backup generator. The emergency power supply includes engine generators and switchgear with automatic start and switchover to standby generator upon failure of the normal power source.

All existing above ground lines are down from the storms; repair and replacement of underground lines to current standards is necessary.

Construction Award Date: July 2018
Construction Start Date: September 2018
Construction End Date: September 2019

Nazareth, Virgin Islands

Vehicle Maintenance Shop 19.1

Funds are required to construct a replacement facility for the existing field maintenance shop including required supporting facilities necessary to provide regional maintenance support for combat and tactical vehicles. The existing facility sustained significant damage which includes near 100% damage to the roof and overhead doors; it is outdated and nearing the end of its useful life and should be replaced.

Construction Award Date: December 2018
Construction Start Date: February 2018
Construction End Date: February 2020

Planning and Design (P&D) 38.5

P&D for military construction projects identified in this request.

Total Army National Guard 519.3

TOTAL MILITARY CONSTRUCTION REQUEST 721.0