

Subject: July 2020 Prior Approval Request		DoD Serial Number: FY 20-12 PA
Appropriation Title: Various Appropriations		
		Includes Transfer? Yes

Component Serial Number:	<i>(Amounts in Thousands of Dollars)</i>							
	Program Base Reflecting Congressional Action		Program Previously Approved by Sec Def		Reprogramming Action		Revised Program	
Line Item	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
a	b	c	d	e	f	g	h	i

This prior approval reprogramming action is submitted for approval because these actions use general or special transfer authority, exceed established reprogramming thresholds, affect special interest items, or indicate a new start. This reprogramming action provides funding in support of higher priority items, based on unforeseen military requirements, than those for which originally appropriated; and are determined to be necessary in the national interest. They meet all administrative and legal requirements, and none of the items have previously been denied by the Congress.

**Part I** of this reprogramming action transfers or realigns \$32.213 million among Fiscal Year (FY) 2020 Defense appropriations. This reprogramming action uses \$8.0 million of general transfer authority pursuant to section 8005 of division A of Public Law 116-93, the Department of Defense (DoD) Appropriations Act, 2020; and section 1001 of Public Law 116-92, the National Defense Authorization Act for FY 2020.

**Part II** of this reprogramming action realigns \$3.0 million within the Research, Development, Test, and Evaluation, Army, 19/20 appropriation.

**PART I**

<del><b>FY 2020 REPROGRAMMING INCREASES:</b></del>	<del><b>+32,213</b></del>
<del><b>ARMY INCREASES</b></del>	<del><b>+8,000</b></del>
<del><b>Research, Development, Test, and Evaluation, Army, 20/21</b></del>	<del><b>+8,000</b></del>
<del><b>Budget Activity 05: System Development and Demonstration</b></del>	
<del>0604798A Brigade Analysis, Integration and Evaluation</del>	
<del>37,352</del>	<del>33,352</del> <del>+5,000</del> <del>38,352</del>

~~**Explanation:** Funds are required to conduct electromagnetic spectrum engineering studies and analysis of bases, posts, stations, and ranges impacted by America's Mid-Band Institute Team (AMBIT) 5G activities to ensure Army maintains operational capabilities and meets training and testing requirements. This is a base budget requirement.~~

Approved (Signature and Date)  8/7/2020

<b>Subject:</b> July 2020 Prior Approval Request		<b>DoD Serial Number:</b> FY 20-12 PA
<b>Appropriation Title:</b> Various Appropriations		
		<b>Includes Transfer?</b> Yes

Component Serial Number:	<i>(Amounts in Thousands of Dollars)</i>							
	Program Base Reflecting Congressional Action		Program Previously Approved by Sec Def		Reprogramming Action		Revised Program	
Line Item	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
a	b	c	d	e	f	g	h	i

Budget Activity 06: Management Support  
0604256A Threat Simulator Development

41,566 41,566 +3,000 44,566

Explanation: Funds are required for studies to determine how to mitigate the reduction of available spectrum for Electronic Warfare (EW) training. Specifically, to conduct studies to determine the ability to conduct open air/live fire EW testing, training, and large force exercises, in the presence of non-Federal electromagnetic spectrum operations within the 5G band. This requirement is a **new start** and this funding will complete the effort. This is a base budget requirement.

NAVY INCREASES +13,713

Research, Development, Test, and Evaluation, Navy, 20/21 +13,713

Budget Activity 05: System Development and Demonstration (SDD)

0604522N Air and Missile Defense Radar (AMDR) System

36,912 36,912 +5,300 42,212

Explanation: Funds are required for the following efforts:

- \$14.8 million will provide 5G and radar lab and live testing events to characterize each of several radars impact on and from 5G in support of the National 5G American Mid-Band Institute Team (AMBIT) initiative. This is a base budget requirement.
- \$10.5 million will support a study to understand the impact to Aegis and Ship Self Defense Combat Systems due to changes to radar Continuity of Operations (CONOPS) and capabilities as a result of 5G. This is a base budget requirement.

0604366N Standard Missile Improvements

204,515 204,515 +1,500 206,015

Explanation: Funds are required to support the study of missile system downlinks to understand 5G impacts and required mitigations, concept exploration for 5G sense and avoid processing within Naval systems, and Real Time Spectrum Operations Compression analysis to evaluate an increase in interference as expected from having more radars compressed into a smaller amount of spectrum. This is a base budget requirement.



Subject: July 2020 Prior Approval Request						DoD Serial Number: FY 20-12 PA	
Appropriation Title: Various Appropriations						Includes Transfer? Yes	
Component Serial Number:		(Amounts in Thousands of Dollars)					
		Program Base Reflecting Congressional Action		Program Previously Approved by Sec Def		Revised Program	
Line Item		Quantity	Amount	Quantity	Amount	Quantity	Amount
a		b	c	d	e	f	g

**DEFENSE-WIDE INCREASES** **+9,500**

**Research, Development, Test, and Evaluation, Defense-Wide, 20/21** **+9,500**

Budget Activity 04: Advanced Component Development and Prototypes

0303191D8Z Joint Electromagnetic Technology (JET) Program

	3,191	3,191	<b><u>+1,200</u></b>	4,391
--	-------	-------	----------------------	-------

Explanation: Funds are required for a study to determine the technical and operational requirements as well as regulatory governance structure to enable shared access between non-Federal (i.e., commercial) 5G and DoD capabilities on major range and test facility bases in the entire 3450-3550 MHz band. Shared access to the full 100 MHz is intended to provide advanced and more effective capabilities for both military and commercial users. This requirement is a **new start** and this funding will complete the effort. This is a base budget requirement.

Budget Activity 07: Operational Systems Development

0303153K Defense Spectrum Organization

	19,528	19,528	<b><u>+8,300</u></b>	27,828
--	--------	--------	----------------------	--------

Explanation: Funds are required for the following efforts:

- ~~+\$2.8 million will support engineering analyses, in coordination with the Military Departments, to establish coordination areas, deliberate planning areas, associated processes and protocols, and other procedural/manual processes that support sharing of the 3.45GHz-3.55 GHz portion of the electromagnetic spectrum between DoD operations and US 5G nation-wide deployments in accordance with the DoD sharing frameworks submitted to the White House. This requirement is a **new start** and this funding will complete the effort. This is a base budget requirement.~~
- ~~+\$5.5 million will support prototyping of medium risk and high-risk elements of the long-term, technology-based Incumbent Informing System (IIS) that will increase sharing opportunities in the 3.45 GHz-3.55 GHz band between DoD operations and US 5G nation-wide deployments over and above the initial, manual and procedural-based initial processes outlined in the DoD sharing frameworks submitted to the White House. This risk reduction will also improve certainty in the details of the technical solution for both DoD and Industry, leading to an improved risk position for DoD and an improved auction result for Industry. This requirement is a **new start** and this funding will complete the effort. This is a base budget requirement.~~

<b>Subject:</b> July 2020 Prior Approval Request		<b>DoD Serial Number:</b> FY 20-12 PA
<b>Appropriation Title:</b> Various Appropriations		
		<b>Includes Transfer?</b> Yes

Component Serial Number:	<i>(Amounts in Thousands of Dollars)</i>							
	Program Base Reflecting Congressional Action		Program Previously Approved by Sec Def		Reprogramming Action		Revised Program	
Line Item	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
a	b	c	d	e	f	g	h	i

**FY 2020 REPROGRAMMING DECREASES:** **-32,213**

**ARMY DECREASE** **-5,000**

**Missile Procurement, Army, 20/22** **-5,000**

~~Budget Activity 03: Modification of Missiles~~

<del>Stinger Mods</del>	<del>89,115</del>	<del>89,115</del>	<del>-5,000</del>	<del>84,115</del>
-------------------------	-------------------	-------------------	-------------------	-------------------

~~Explanation: Funds are available due to the reduced cost of the Stinger Service Life Extension (SLEP) program. This is base budget funding.~~

**NAVY DECREASES** **-13,713**

**Research, Development, Test, and Evaluation, Navy, 20/21** **-13,713**

~~Budget Activity 05: Systems Development and Demonstration~~

~~0604280N Joint Tactical Radio System - Navy (JTRS Navy)~~

<del></del>	<del>184,532</del>	<del>192,212</del>	<del>-6,800</del>	<del>185,412</del>
-------------	--------------------	--------------------	-------------------	--------------------

~~Explanation: Funds are available in the Department of the Navy's (DON) Joint Tactical Radio System (JTRS) Maritime Fixed Station Global Positioning System (GPS) Modernization program. The DON's GPS Modernization project integration effort is dependent on new M-code GPS receivers managed by the US Air Force (USAF) MGUE (Military GPS User Equipment) program. The USAF MGUE (next generation GPS) program is experiencing significant delays with technology development and therefore is delaying the Navy's GPS Modernization effort. This is base budget funding.~~

~~Budget Activity 07: Operational Systems Development~~

~~0206624M Marine Corps Combat Services Support~~

<del></del>	<del>42,913</del>	<del>35,223</del>	<del>-6,913</del>	<del>28,310</del>
-------------	-------------------	-------------------	-------------------	-------------------

~~Explanation: Funds are available due to the decision to transition the M1A1 Tank program to full sustainment and stop modernization efforts. This funding was directly associated with the modernization efforts. The Service does not have a current need to modernize the M1A1 Tank in FY 2020, and the platform transitions to sustainment beginning in FY 2021. This is base budget funding.~~

Subject: July 2020 Prior Approval Request						DoD Serial Number: FY 20-12 PA			
Appropriation Title: Various Appropriations						Includes Transfer? Yes			
Component Serial Number:		(Amounts in Thousands of Dollars)							
		Program Base Reflecting Congressional Action		Program Previously Approved by Sec Def		Reprogramming Action		Revised Program	
Line Item		Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
a		b	c	d	e	f	g	h	i

**AIR FORCE DECREASE** **-1,000**

**Research, Development, Test, and Evaluation, Air Force, 20/21** **-1,000**

~~Budget Activity 07: Operational Systems Development~~

~~0207268F Aircraft Engine Component Improvement~~

	108,470		108,470	<b>-1,000</b>	107,470
--	---------	--	---------	---------------	---------

~~Explanation: Funds are available due to a reduction/savings in planned F-135 Engine efforts. There are no other known requirements for the funding at this time and no impacts to the program. This is base budget funding.~~

**DEFENSE-WIDE DECREASE** **-12,500**

**Research, Development, Test, and Evaluation, Defense-Wide, 20/21** **-12,500**

~~Budget Activity 07: Operational Systems Development~~

~~0303140D8Z/Information Systems Security Program~~

	67,631		61,887	<b>-12,500</b>	49,387
--	--------	--	--------	----------------	--------

~~Explanation: Funds are sourced from a classified program—additional details can be provided under separate cover. This is base budget funding.~~

**SASC Defers**

**PART II**

**FY 2019 REPROGRAMMING INCREASE:** **+3,000**

**Research, Development, Test, and Evaluation, Army, 19/20** **+3,000**

Budget Activity 05: System Development and Demonstration

0604823A Firefinder	24,285		24,285	<b>+3,000</b>	27,285
---------------------	--------	--	--------	---------------	--------

Explanation: Funds are required to conduct spectrum studies and exploratory engineering analysis to support increase in operating bandwidth (from 3.1Ghz to potentially ~2.9 Ghz) and waveform agility for the AN/TPQ-53 in support of AMBIT 5G activities. This is a base budget requirement.

**Implemented 9/30/2020**

<b>Subject:</b> July 2020 Prior Approval Request						<b>DoD Serial Number:</b> FY 20-12 PA			
<b>Appropriation Title:</b> Various Appropriations						<b>Includes Transfer?</b> Yes			
<b>Component Serial Number:</b>		<i>(Amounts in Thousands of Dollars)</i>							
		<b>Program Base Reflecting Congressional Action</b>		<b>Program Previously Approved by Sec Def</b>		<b>Reprogramming Action</b>		<b>Revised Program</b>	
<b>Line Item</b>		<b>Quantity</b>	<b>Amount</b>	<b>Quantity</b>	<b>Amount</b>	<b>Quantity</b>	<b>Amount</b>	<b>Quantity</b>	<b>Amount</b>
a		b	c	d	e	f	g	h	i

<b><u>FY 2019 REPROGRAMMING DECREASE:</u></b>						<b><u>-3,000</u></b>			
<b><u>Research, Development, Test, and Evaluation, Army, 19/20</u></b>						<b><u>-3,000</u></b>			
<b><u>Budget Activity 07: Operational Systems Development</u></b>									
<b>0607139A Improved Turbine Engine Program</b>									
		178,866		178,866		<b>-3,000</b>		175,866	

Explanation: Funds are available due to the incorrect phasing of funding for design and development efforts between Phase 1 and Phase 2. The incorrectly phased funding is not needed at this time and will be needed in a future fiscal year for Phase 2 integration. This is base budget funding.

**Implemented 9/30/2020**