

<b>Subject:</b> Sec 8132 FY 2021		<b>DoD Serial Number:</b> 22-10 IR
<b>Appropriation Title:</b> Various Appropriations		
		<b>Includes Transfer?</b> Yes

Component Serial Number:	(Amounts in Thousands of Dollars)							
	Program Base Reflecting Congressional Action		Program Previously Approved by Sec Def		Reprogramming Action		Revised Program	
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This reprogramming action transfers funds between appropriations for proper execution. The reclassification is required to execute funds properly in accordance with congressional intent. These actions are determined to be necessary in the national interest. These actions do not change the purpose for which the funds were originally appropriated. This reprogramming action meets all administrative and legal requirements, and none of the items has been previously denied by the Congress.

**PART I** of this reprogramming action transfers \$26.60 million between Fiscal Year (FY) 2021 appropriations pursuant to section 8132 of division C of Public Law 116-260, the Department of Defense (DoD) Appropriations Act, 2021. Section 8132 appropriated \$100 million for transfer to appropriations for operation and maintenance; procurement; and research, development, test and evaluation to assess and strengthen the manufacturing and defense industrial base and supply chain resiliency. The transfer authority provided by Section 8132 is in addition to any other transfer authority available to the Department of Defense.

**PART II** of this reprogramming action transfers \$54.825 million pursuant to section 8132 of division C of Public Law 116-260, the DoD Appropriations Act, 2021 from the FY 2021 Procurement, Defense-wide appropriation to FY 2022 appropriations for operation and maintenance and for research, development, test and evaluation made by the Continuing Appropriations Act, 2022, division A of Public Law 117-43. Section 8132 which provides \$100 million to assess and strengthen the manufacturing and defense industrial base and supply chain resiliency. The transfer authority provided by Section 8132 is in addition to any other transfer authority available to the Department of Defense.

## **PART I**

**FY 2021 REPROGRAMMING INCREASE:** **+26,600**

### **ARMY**

**Research, Development, Test, and Evaluation, Army, 21/22** **+15,500**

Budget Activity 06: Management Support

0605601A Army Test Ranges and Facilities

390,359

390,359

**+15,500**

405,859

Approved (Signature and Date)



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Explanation: Funds are required to assess and strengthen the manufacturing for Directed Energy Industrial Capacity in the high energy laser manufacturing capability to develop the domestic supply base. The primary objective of these strategic equipment purchases is to increase the capacity at which the critical components for a Directed-Energy Weapon (DEW) of a high energy laser system are produced. A DEW is a ranged weapon that damages its target with highly focused energy, including High Energy Laser and High Power Microwaves. Specific purchases of manufacturing equipment and materials include but are not limited to: optical fine figuring equipment, large-format interferometer, large Off Axis Parabolas optical coating chambers, high power laser testing stations, alignment verification equipment, laser diode submount production equipment, fiber manufacturing equipment, preform production equipment, high power optical substrate and imaging metrology verification equipment. This is a base budget requirement.

#### **DEFENSE-WIDE**

**Research, Development, Test, and Evaluation, Defense-Wide, 21/22** **+11,100**

Budget Activity 03: Advanced Technology Development

0603680D8Z Defense-Wide Manufacturing Science and Technology Program

245,757	245,757	+4,000	249,757
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Explanation: Funds are required to assess and strengthen the manufacturing and supply chain resiliency through the increased adoption of additive manufacturing (AM). These funds will be used to resolve the lack of accessible, reliable, validated design data for AM materials as there is for traditional manufacturing processes (castings, forgings, etc.) by creating consensus-based standards, complete the necessary experimentation and analysis and make available the data. This project will develop broadly available metal AM foundational design data and technical standards to speed up the qualification and approval of AM parts by making standardized procedures and design data available to the entire supply chain. This project complements related metal AM efforts by the Navy, Army, Air Force and Defense Logistics Agency (DLA) efforts. Implementing standardized practices and common datasets will reduce costs and time to approve AM parts. This is a base budget requirement.

0603680S Manufacturing Technology Program

69,025	69,025	+6,100	75,125
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Explanation: Funds are required to develop a domestic capability to recycle Rare Earth Elements (REE) from waste streams and industrial base scrap that supports the production of Thermal Barrier Coatings (TBCs) for jet engines. REE's are critical ingredients for thermal barrier coatings and protect parts from degradation under high temperature during engine operation. The Department will increase the REE productivity within the small business industrial base by expanding an existing capacity of 45 metric tons (MT) to 300-350 MT and procure additional equipment and labor. Increasing REE supplies domestically will simultaneously expand U.S. manufacturing consistent with E.O. 14017 and the Interim National Security Strategic Guidance. This is a base budget requirement.

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Budget Activity 07: Operational Systems Development

0607210D8Z Industrial Base Analysis and Sustainment Support

172,145 172,145 +1,000 173,145

Explanation: Funds are required to assess and strengthen the manufacturing and defense industrial base and supply chain resiliency of the United States, specifically for establishing a Defense Industrial Base (DIB) Workforce strategy. The collection and analysis of data will identify DIB workforce gaps in order to develop a strategy that will occur in a region of the US with DIB centric workforce like Texas, Alabama, Virginia, and Connecticut to address multi-decade erosion of the workforce and manufacturing capacity. The DIB workforce strategy will consider traditional and foundational skills as well as growing a comprehensive engineering and skilled technician workforce needed in new areas such as digital manufacturing, and augmented/artificial intelligence. This data will help senior leadership make informed targeted investments in Defense dense states and communities to increase production throughput for skilled workers needed in DIB. This is a base budget requirement.

**FY 2021 REPROGRAMMING DECREASE:** **-26,600**

**DEFENSE-WIDE** **-26,600**

**Procurement, Defense-Wide, 21/23 21/X "OUSD(C) Corrected"** **-26,600**

Budget Activity 01: Major Equipment Defense Industrial Base &

Policy

100,000 100,000 -26,600 73,400

Explanation: Funds are available per Public Law 116-260, section 8132. Congress provided these funds with the specific intent to strengthen the manufacturing and defense industrial base and supply chain resiliency of the United States. Transferred funds shall be merged with and be available for the same purpose and for the same time period as the appropriation to which they are transferred. This is base budget funding.

**PART II**

**FY 2022 REPROGRAMMING INCREASE:** **+54,825**

**ARMY** **+2,800**

**Operation and Maintenance, Army, 22/22** **+2,000**

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<b>Budget Activity 04: Admin &amp; Srvwide Activities</b> <div style="float: right; text-align: right;"> <b>+2,000</b> <div style="margin-top: 10px;">2,000</div> </div> <p><u>Explanation:</u> Funds are required to assess and strengthen the manufacturing and defense industrial base and supply chain resiliency of the United States, specifically with identifying foreign ownership, control, and interest by conducting supply chain risk management pilots to jump-start Army's mapping and illumination of the supply chains for Ground Combat, Aviation, and Electronics weapon systems and commodities. Efforts will establish an enduring capability to protect domestic industrial base capabilities and intellectual property from being transferred to covered countries across a variety of major defense acquisition programs by identifying companies, suppliers, and distributors that pose a risk to the supply chain. Critical investments across both the acquisition and sustainment enterprises are required to deploy an effective supply chain risk management capability that includes, tools and workforce knowledge and skills. These efforts are vital to ensuring that the Army is capable of developing and producing strategic components necessary to maintain technical dominance over adversaries as stated in E.O. 14017 and the Interim National Security Strategic Guidance. This is a base budget requirement.</p>								
<b><u>Research, Development, Test, and Evaluation, Army, 22/23</u></b> <div style="float: right; text-align: right;"> <b>+800</b> </div> <p><u>Budget Activity 03: Advanced Technology Development</u></p> <p>0603462A Next Generation Combat Vehicle Advanced Technology</p> <div style="float: right; text-align: right;"> <b>+800</b> <div style="margin-top: 10px;">800</div> </div> <p><u>Explanation:</u> Funding is required to accelerate a battery standardization plan for DoD electric vehicle requirements across platforms with an intended draft standard and prototype battery conforming to that standard by FY 2026. This will support: (1) Army and Navy efforts to engineer Electric Vehicle (EV) batteries into ground systems and ships, (2) DoD integration with the battery industry to enable easy production of DoD safety-compliant EV batteries, (3) Viable DoD safety-compliant EV battery production industry, and (4) establishment of industry interface procedures between the battery industry and DoD weapons system engineers. This is a base budget requirement.</p>								
<b><u>NAVY</u></b> <div style="float: right; text-align: right;"> <b>+15,200</b> </div> <p><b><u>Operation and Maintenance, Navy, 22/22</u></b> <div style="float: right; text-align: right;"> <b>+2,000</b> </div> <p><u>Budget Activity 04: Admin &amp; Srvwd Activities</u></p> <div style="float: right; text-align: right;"> <b>+2,000</b> <div style="margin-top: 10px;">2,000</div> </div> </p>								

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<p><u>Explanation:</u> Funds are required to assess and strengthen the manufacturing and defense industrial base and supply chain resiliency of the United States, specifically with identifying foreign ownership, control, and interest by identifying risks, inclusive of financial and affordability, to the Department of the Navy (DON) Supply Chain through use of automated supply chain toolsets. Efforts will protect domestic industrial capabilities and intellectual property from being transferred to covered countries across a variety of major defense acquisition programs by identifying risks and vulnerabilities within the supply chain such that DON leadership can determine future mitigation initiatives. Critical investments in automated tools, data access, and training for program office staffs on use of the tools and resulting data are needed to establish a supply chain risk management capability to include supply chain visibility tools. These efforts are vital to ensuring that the DON is capable of developing and producing strategic components necessary to maintain technical dominance over adversaries as stated in Executive Order 14017 and the Interim National Security Strategic Guidance. This is a base budget requirement.</p>								
<b><u>Operation and Maintenance, Marine Corps, 22/22</u></b>						<b><u>+2,000</u></b>		
<u>Budget Activity 01: Operating Forces</u>								
						<b>+2,000</b>		2,000
<p><u>Explanation:</u> Funds are required to assess and strengthen the manufacturing and defense industrial base and supply chain resiliency of the United States Marine Corps (USMC). Funds will be used to: 1) Establish a supply chain resiliency working group with all USMC stakeholders and build a team; 2) Create a supply chain resiliency “strategy” that identifies goals, tasks, and objectives for all stakeholders, developing and implementing a plan; 3) Conduct strategic supply chain planning analysis to identify current risks and develop appropriate mitigations; execute, report, and monitor efforts to improve supply chain resiliency. 4) Continue development of a “Digital Twin” of the USMC supply chain to enable detailed analysis of supply chain threats and risks. Funds will enable development of a critical tool that will lead to favorable outcomes and improved supply chain resiliency. These efforts are vital to ensuring that the USMC can develop and produce strategic and operational sustainment components necessary to maintain technical dominance over adversaries as stated in E.O. 14017 and the Interim National Security Strategic Guidance. This is a base budget requirement.</p>								
<b><u>Research, Development, Test, and Evaluation, Navy, 22/23</u></b>						<b><u>+11,200</u></b>		
<u>Budget Activity 04: Advanced Component Development &amp; Prototypes</u>								
0603724N Navy Energy Program								
						<b>+1,200</b>		1,200



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<p><u>Explanation:</u> Funding is required to accelerate a battery standardization plan for the Department's Electric Vehicle (EV) requirements across multiple ship and ground platforms and to develop a safety-compliant standard and prototype battery with EV industry conforming to new standard by FY 2026. These improvements will support: (1) Navy and Army efforts to engineer EV batteries to incorporate into ships and ground systems, (2) viable integration with the battery industry to enable easy production of EV batteries, (3) and establishment of industry interface procedures between the battery industry and weapons system engineers. This is a base budget requirement.</p> <p><u>Budget Activity 07: Operational Systems Development</u> 0101221N Strategic Sub &amp; Weapons System Support</p> <p style="text-align: right;"><b>+10,000</b> 10,000</p> <p><u>Explanation:</u> Funds are required to assess and strengthen the manufacturing and defense industrial base and supply chain resiliency of the United States, specifically within the aeroshell industrial base. Efforts will reinvigorate a domestic capability to design and manufacture aeroshell components that are essential to supporting nuclear modernization programs. The aeroshell industrial base has not produced reentry body components at scale since the 1980s and is inadequate to meet the production needs of the Services in support of the Nation's nuclear deterrent. Critical investments are required to replace atrophied or obsolete equipment; conduct material characterization, qualification, and validation testing of existing and proposed future materials; and develop a highly technical critical skills workforce capable of performing activities that are unique to the strategic deterrent. These efforts are vital to ensuring that the Services are capable of developing and producing strategic components necessary to maintain technical dominance over adversaries as stated in Executive Order (E.O.) 14017 and the Interim National Security Strategic Guidance. This is a base budget requirement.</p> <p><b><u>AIR FORCE</u></b> <span style="float: right;"><b>+3,000</b></span>  <b><u>Operation and Maintenance, Space Force, 22/22</u></b> <span style="float: right;"><b>+1,000</b></span>  <u>Budget Activity 04: Administration and Service Wide Activities</u> <span style="float: right;"><b>+1,000</b> 1,000</span></p> <p><u>Explanation:</u> Funds are required to assess and strengthen the manufacturing and defense industrial base and supply chain resiliency of the United States, specifically with identifying foreign ownership, control, and interest by performing Supply Chain illuminations. Efforts will protect domestic industrial capabilities and intellectual property from being transferred to covered countries across a variety of major defense acquisition programs by identifying vendors and sub-vendors at risk. Critical investments across SSC/S4 Acquisition and Sustainment programs are needed to establish a supply chain risk management capability to include supply chain visibility tools. These efforts are vital to ensuring that the United States Space Force (USSF) is capable of developing and producing strategic components necessary to maintain technical dominance over adversaries as stated in E.O. 14017 and the Interim National Security Strategic Guidance. This is a base budget requirement.</p>								

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a	b	c	d	e	f	g	h	i
<div style="display: flex; justify-content: space-between;"> <div> <b><u>Operation and Maintenance, Air Force, 22/22</u></b>  <u>Budget Activity 04: Admin &amp; Srvwd Activities</u> </div> <div style="text-align: right;"> <b><u>+2,000</u></b>   <b><u>+2,000</u></b> </div> <div style="text-align: right;">    <b>2,000</b> </div> </div> <p><u>Explanation:</u> Funds are required to assess and strengthen the manufacturing and defense industrial base and supply chain resiliency of the United States, specifically with identifying foreign ownership, control, and interest. The funds will be used to develop strategic-level analysis of risks across weapon systems to highlight trends and mitigate risks to the industrial base and suppliers by including investments to establish automation of tools and information sharing practices. These efforts will protect domestic industrial capabilities and intellectual property from being transferred to covered countries across a variety of major defense acquisition programs. These vital capabilities will ensure that the Air Force has the means of developing and producing strategic components necessary to maintain technical dominance over adversaries as stated in E.O. 14017 and the Interim National Security Strategic Guidance. This is a base budget requirement.</p>								
<div style="display: flex; justify-content: space-between;"> <div> <b><u>DEFENSE-WIDE</u></b>  <b><u>Operation and Maintenance, Defense-Wide, 22/22</u></b>  <u>U.S. Special Operations Command</u>  <u>Budget Activity 01: Operating Forces</u> </div> <div style="text-align: right;"> <b><u>+33,825</u></b>  <b><u>+6,125</u></b> </div> <div style="text-align: right;">       <b>1,000</b> </div> </div> <p><u>Explanation:</u> Funds are required to strengthen US Special Operations Command's (USSOCOM) ability to conduct Supply Chain Risk Management (SCRM). Funds will resource the capability to enhance Acquisition Security and Acquisition Intelligence efforts that will identify areas of concern that directly impact warfighters on and off the battlefield by increasing abilities to protect domestic industrial capabilities and intellectual property from being transferred or obtained by covered countries from USSOCOM acquisition programs. These efforts are vital to ensuring a robust and secure Defense industrial base (DIB), enabling USSOCOM to continue to maintain its technological warfighting dominance through agile development, fielding, and sustainment of our unique capabilities, and in denying our adversaries the ability to affect the development, production, and operational use of those unique capabilities. This is a base budget requirement.</p>								
<div style="display: flex; justify-content: space-between;"> <div> <u>Office of the Secretary of Defense</u>  <u>Budget Activity 04: Admin &amp; Servicewide Activities</u> </div> <div style="text-align: right;">    <b><u>+5,125</u></b> </div> <div style="text-align: right;">    <b>2,000</b> </div> </div>								

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<p><u>Explanation:</u> Funds are required to update the business rules platform of The Market Research Center of Excellence (MRCOE) which is a suite of tools utilized by the DoD's acquisition workforce including small business professionals. The updated platform will provide acquisition professionals real time market intelligence data that will enable them to perform advanced market research and use big data principles to conduct comparative analytics across the DoD and other federal agencies for small business performance. Expanded dexterity will utilize technology and tools for processes carried out by the acquisition workforce, increase small business set aside competitions and identify capable domestic suppliers that can meet DoD's industrial base requirements in critical sectors. This is a base budget requirement.</p> <p><b><u>Research, Development, Test, and Evaluation, Defense-Wide, 22/23</u></b> <b><u>+27,700</u></b></p> <p><b><u>Budget Activity 03: Advanced Technology Development</u></b></p> <p>0603342D8Z Defense Innovation Unit (DIU)</p> <p style="text-align: right;"><b>+10,700</b> <b>10,700</b></p> <p><u>Explanation:</u> Funds are required for the following programs:</p> <ul style="list-style-type: none"> <li>\$10.0 million for the advancement of battery standardization and production by aligning the Department's battery requirements to commercial battery standards currently being used by the electric vehicle (EV) market. Funds will be used to (1) test EV batteries to DoD standards, (2) prototype EV batteries to meet DoD standards, and (3) invest in domestic EV battery production to ensure security of supply for DoD needs. Matching the alignment of DoD battery requirements to commercial battery standards currently being used by the EV market will allow the Department to access more advanced batteries at reduced costs. This is a base budget requirement.</li> <li>\$0.7 million to support supply chain resiliency for advanced lithium-sulfur battery technologies by establishing domestic production of battery cells for joint military space applications. Specifically, the objective is to produce improved batteries for satellites using domestically sourced materials: lithium, sulfur and silicon. This technology maturation will increase energy capacity and seeks to double the overall capability of the battery. Beyond satellites, this technology has broad future applications in other ground platforms for the Department when it reaches full operational capability. This is a base budget requirement.</li> </ul> <p><b><u>Budget Activity 06: Management Support</u></b></p> <p>0606771D8Z Cyber Resiliency and Cybersecurity Policy</p> <p style="text-align: right;"><b>+5,000</b> <b>5,000</b></p>								



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<p><u>Explanation:</u> Funds are required to assist small and medium sized businesses with obtaining Cybersecurity Maturity Model Certification (CMMC) that is necessary in order to qualify to bid on Defense contracts. Funds will initiate a pilot program for Cyber Security as a Service (CaaS), which will provide small and medium companies a secure computer network environment that is authorized to handle DoD Controlled Unclassified Information (CUI). This allows companies to bid on government contracts that contain CUI cybersecurity requirements without having to build their own secure network. Both of these efforts will reduce the cybersecurity cost burden to these companies and expand the Defense Industrial Base. This is a base budget requirement.</p> <p><u>Budget Activity 07: Operational Systems Development</u> 0604532K Joint Artificial Intelligence</p> <div style="text-align: right; margin-right: 50px;">+5,000</div> <div style="text-align: right;">5,000</div> <p><u>Explanation:</u> Funds are required to assess and strengthen the manufacturing and defense industrial base and supply chain resiliency of the United States, specifically with identifying foreign ownership, control, and interest. Efforts will protect domestic industrial capabilities and intellectual property from being transferred to covered countries across a variety of major defense acquisition programs. Critical investments are needed to establish a supply chain risk management capability to include supply chain visibility tools. JAIC will utilize these funds to leverage Artificial Intelligence to bolster supply chain risk management and resiliency efforts and maintain technical dominance over adversaries as stated in E.O. 14017 and the Interim National Security Strategic Guidance. This is a base budget requirement.</p> <p>0607210D8Z Industrial Base Analysis and Sustainment Support</p> <div style="text-align: right; margin-right: 50px;">+7,000</div> <div style="text-align: right;">7,000</div> <p><u>Explanation:</u> Funds are required for the following programs:</p> <ul style="list-style-type: none"> <li>• \$1.0 million to support the qualification of three domestic suppliers of Additive/Digital Manufacturing (A/DM) for selected AIR/LAND/ SEA Army and Navy platforms. Strengthening domestic productivity with titanium and steel A/DM parts will replace the problematic castings for Army programs: AMPV, Bradley, Deep Strike Missile, ERCA/ artillery cannons, F35, and Abrams; and Navy programs: CVN, CLB, VCS, LPD, LHA, LPD, and DDG 51. This project compliments the EO 14005 "Ensuring the future is made in America..." by transitioning mature technical and manufacturing technology into DoD programs and qualification of new vendors for industrial base. This is a base budget requirement.</li> </ul>								

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<ul style="list-style-type: none"> <li>\$6.0 million to assess and strengthen the manufacturing and defense industrial base and supply chain resiliency of the United States, specifically with respect to the production of cast, forged, heat treated and specialty metals products critical to national defense weapons systems and platforms capabilities. Investing in supply chain assessments and visibility tools will identify, expand, and protect critical domestic industrial capabilities and intellectual property specific to these disciplines and inform investment strategies needed to develop lead ahead capabilities. These efforts are vital to ensuring that DoD is capable of developing and producing—within appropriate cost, schedule and performance goals—strategic components necessary to maintain technical dominance over adversaries as stated in E.O. 14017 and the Interim National Security Strategic Guidance. This is a base budget requirement.</li> </ul>								
<b><u>FY 2022 REPROGRAMMING DECREASE:</u></b>						<b><u>-54,825</u></b>		
<b><u>DEFENSE-WIDE</u></b>						<b><u>-54,825</u></b>		
<b><u>Procurement, Defense-Wide, 21/23 21/X "OUSD(C) Corrected"</u></b>						<b><u>-54,825</u></b>		
<b><u>Budget Activity 01: Major Equipment</u></b>								
<b><u>Defense Industrial Base &amp; Policy</u></b>								
		73,400		73,400		-54,825		18,575
<p><b><u>Explanation:</u></b> Funds are available per Public Law 116-260, section 8132. Congress provided these funds with the specific intent to strengthen the manufacturing and defense industrial base and supply chain resiliency of the United States. Transferred funds shall be merged with and be available for the same purpose and for the same time period as the appropriation to which they are transferred. This is base budget funding.</p>								