

**UNCLASSIFIED**

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2021 Air Force **Date:** February 2020

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 3: Advanced Technology Development (ATD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0303467F / <i>SENSR Spectrum Pipeline SRF</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	7.265	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
632610: <i>Activities</i>	-	7.265	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

The Commercial Spectrum Enhancement Act (CSEA) of 2004 created the Spectrum Relocation Fund (CSEA, Title II of P.L. 108-494) to provide a centralized and streamlined funding mechanism through which Federal agencies can recover the costs associated with relocating their radio communications systems from certain spectrum bands, which were authorized to be auctioned for commercial purposes.

The Department of Defense (DoD) Spectrum Access Research and Development Program (SAR&DP) encompasses spectrum technology development that enables Department of Defense spectrum-dependent systems to satisfy operational readiness and capability needs. Being able to operate in accordance with spectrum allocations resulting after the spectrum auction is necessary, but not sufficient, for pursued technology solutions. The Department of Defense transition out of or sharing of the auctioned bands can only be successful if the research and development solutions are effective (for example, survivable, electronically protected, et cetera) while operating in both the United States and congested/contested spectrum environments wherever forces will be deployed.

This program represents the Air Force investment within the SAR&DP. Budget for the Air Force portion of the DoD SAR&DP is created from the auction of Advanced Wireless Service licenses in execution year.

Funding supports Spectrum relocation and sharing activities.

This program is in Budget Activity 3, Advanced Technology Development because this budget activity includes development of subsystems and components and efforts to integrate subsystems and components into system prototypes for field experiments and/or tests in a simulated environment.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	7.265	0.000	0.000	0.000	0.000
Total Adjustments	7.265	0.000	0.000	0.000	0.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	7.265	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

**Change Summary Explanation**

Other Adjustment of \$7.265 million in FY 2019 due to Air Force portion of the Department of Defense Spectrum Access Research and Development Program created from the auction of Advanced Wireless Service licenses. Receive funds during execution year through a transfer from OMB.

**C. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<b>Title:</b> Air Force Spectrum Access Research & Development Program (SAR&DP)	7.265	0.000	0.000	0.000	0.000
<b>Description:</b> The SAR&DP encompasses spectrum technology development that enables Department of Defense spectrum-dependent systems to satisfy operational readiness and capability needs. Being able to operate in accordance with spectrum allocations resulting after the spectrum auction is necessary, but not sufficient, for pursued technology solutions. The Department of Defense transition out of or sharing of the auctioned bands can only be successful if the research and development solutions are effective (for example, survivable, electronically protected, et cetera) while operating in both the United States and congested/contested spectrum environments wherever forces will be deployed.					
<b>FY 2020 Plans:</b> N/A					
<b>FY 2021 Base Plans:</b> N/A					
<b>FY 2021 OCO Plans:</b>					

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
N/A					
<b><i>FY 2020 to FY 2021 Increase/Decrease Statement:</i></b> N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	7.265	0.000	0.000	0.000	0.000

**D. Other Program Funding Summary (\$ in Millions)**  
N/A

**Remarks**

**E. Acquisition Strategy**  
N/A