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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0303667A / <i>Citizen Broadband Radio System</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	0.900	-	-	-	-	0.000	0.000	0.000	0.000	0.000	0.900
CR1: <i>Spectrum Sensing and Analysis for CBRS</i>	-	0.900	-	-	-	-	-	-	-	-	0.000	0.900

A. Mission Description and Budget Item Justification

In accordance with 47 USC 928 and the Commercial Spectrum Enhancement Act (CSEA) Title, P.L. 108-494, dated December 23, 2004, established the Spectrum Relocation Fund (SRF) to provide Federal agencies a mechanism to recover the cost associated with relocating spectrum dependent systems from spectrum bands which were auctioned for commercial purposes. The activities meet the CSEA and SRF requirements for funding to support spectrum relocation and sharing of the Citizen Broadband Radio System (CBRS) and the Americas Mid-band Initiative Team (AMBIT).

Department of Defense (DoD) costs associated with transition activities to ensure protection of incumbent spectrum dependent systems and military operations functioning within a given auctioned electromagnetic spectrum (EMS) band. Activities focus on ecosystem validations, environmental assessments, and continued industry engagement to refine the indefinite sharing infrastructure.

The DoD POST-AUCTION 3550-3650 MHz Transition Plan focuses on the AN/TPQ-53 radar and adjacent band operations. In order to ensure that AN/TPQ-53 radar can function free from interference, Army will conduct radio frequency (RF) monitoring of the electromagnetic environment (EME) generated by the CBRS deployment at various locations where the AN/TPQ-53 radar operates within the Continental United States (CONUS). RF monitoring will enable the assessment of interference with the AN/TPQ-53 potentially caused by the CBRS. The Army plans to procure RF monitoring equipment, draft test plans, and assemble an engineering team to conduct measurements for various locations where the AN/TPQ-53 operates. The monitoring efforts will include test reports analyzing and quantizing findings from the measured data. The engineering and sharing support component of the Army Transition Plan will provide the Army with qualified personnel for working group coverage and engineering management needed to implement the DoD sharing strategy, in coordination with industry, the National Telecommunications Administration (NTIA), and the Federal Communications Commission (FCC). DoD's implementation of an indefinite sharing arrangement with new uses and users in the 3550-3650 MHz band inevitably involves the sharing costs as identified in 47 USC 923(g)(3). To ensure comparable operations and capabilities, DoD is and will continue to incur costs to mitigate against harmful interference to its protected operations. The SRF is funded with proceeds from FCC conducted auctions of spectrum licenses. SRF funds have an indefinite obligation period and remain available until expended (X Year). The DoD Chief Information Officer (CIO) executes oversight of DoD spectrum relocation and sharing efforts.

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B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.900	0.000	0.000	-	0.000
Total Adjustments	0.900	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.900	-			
• SBIR/STTR Transfer	-	-			