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

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force</i> / BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0604445F / <i>Wide Area Surveillance</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	-	0.000	20.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.000
834240: <i>Wide Area Surveillance (WAS)</i>	-	0.000	20.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.000

Note

In FY2017, Project 675895, Wide Area Surveillance was terminated.
 In FY2018, Project 675899, Wide Area Surveillance EMD effort was completed.
 In FY2020, Project 834240, Wide Area Surveillance was a new start and will execute from Project 675899.

A. Mission Description and Budget Item Justification

The Wide Area Surveillance (WAS) program provides homeland defense sensors to North American Aerospace Defense Command/US Northern Command (NORAD/USNORTHCOM) for air surveillance and cruise missile defense of the National Capital Region.

WAS consists of two advanced sensor systems, the Stateside Affordable Radar System (STARS) and Scorpion, incorporated into a single WAS System. Based on existing technological capabilities, WAS detects/tracks low, slow and other asymmetrical threats in the airspace and meet the user needs of sensing stressing airborne targets in complex environments with affordable sensors. The sensor outputs are incorporated into the Battle Control Systems-Fixed (BCS-F) air picture and utilized as the NORAD/USNORTHCOM Command and Control (C2) air surveillance system of record.

Aspects of the WAS program are classified and information will be provided on a need-to-know basis.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver WAS weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605831F.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

This exhibit, and the statement below, erroneously show development effort in Budget Activity 3 (project 834240). The congressionally directed transfer of \$20M RDT&E funding will be received and executed in Budget Activity 7 (project 675899) corresponding to operational system development.

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. Program Change Summary (\$ in Millions)	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	20.000	0.000	0.000	0.000
Total Adjustments	0.000	20.000	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	20.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

Change Summary Explanation

FY20 Budget Appeal Paper requested transfer of \$20M from Procurement to RDT&E. Reference OP,AF line 34 and RDT&E,AF line 155.

C. Accomplishments/Planned Programs (\$ in Millions)	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>
Title: Development, Test & Fielding	-	20.000	0.000
Description: Development, Test & Fielding			
FY 2020 Plans: Support STARS (S1) Block 2 Configuration Upgrade			
FY 2021 Plans: Support STARS (S1) Block 2 Configuration Upgrade			
FY 2020 to FY 2021 Increase/Decrease Statement: FY20 Appropriations bill directed transfer of \$20M to support development of STARS Block 2 digital upgrade for improved operational capability and reduced lifecycle support costs.			
Accomplishments/Planned Programs Subtotals	-	20.000	0.000

D. Other Program Funding Summary (\$ in Millions)											<u>Cost To</u>
<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2021</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Complete</u>	<u>Total Cost</u>
			<u>Base</u>	<u>OCO</u>	<u>Total</u>						
• OPAF 03 834240: Wide Area Surveillance (WAS)	75.532	42.118	59.633	-	59.633	53.049	8.292	0.000	0.000	243.071	481.695

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D. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u> <u>Base</u>	<u>FY 2021</u> <u>OCO</u>	<u>FY 2021</u> <u>Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF 05 0604445F: <i>Wide Area Surveillance</i>	0.000	3.007	1.904	-	1.904	8.904	5.057	5.413	5.471	0.000	29.756

Remarks

E. Acquisition Strategy

The Wide Area Surveillance (WAS) strategy is a single step acquisition approach for full capability to develop, produce, and field highly capable and sustainable advanced sensors in the National Capital Region. Science & technology contracts were let prior to the Engineering and Manufacturing Development phase for both sub-systems. The Cost Plus Fixed-Fee (CPFF) contract for Stateside Affordable Radar System (STARS) was awarded to a single developer to design, build, integrate, and test the STARS system. A subsequent task order was awarded (Jul 17) to include pre-operational site support. The CPFF contract for Scorpion was awarded (Aug 17) to a single developer to complete the design, build, integration, and testing of the Scorpion system, and conduct pre-operational site support. This strategy includes a single delivery approach with 11 STARS and 18 Scorpion systems for a total of 29 sub-systems delivered to achieve FOC. The pre-operational contract for the Scorpion system transitioned to Interim Contract Support (ICS) in Dec 2018, STARS system transitioned to ICS in June 2019.

Air Force Program Executive Officer (PEO) DIGITAL (AFPEO DIGITAL) is the PEO for WAS. Air Force Life Cycle Management Center (AFLCMC) is the Contracting Authority for the WAS program and provides contracts, legal, and comptroller support. The Secretary of the Air Force for Acquisition (SAF/AQ) is the program's Milestone Decision Authority (MDA).