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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force										Date: February 2019		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 1203699F I Shared Early Warning (SEW)							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	1.327	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.327
674838: Shared Early Warning System	-	1.327	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.327
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Shared Early Warning System (SEWS) is the result of Presidential foreign policy initiatives which began in 1996. The SEWS continues to provide Theater Combatant Commanders and foreign nation customers direct operational benefit by improving the architectural design and equipment thereby providing enhanced mission capabilities (i.e., expanded coverage, emerging capability integration, etc.). Foreign customer arrangements are negotiated with individual countries on a bilateral basis to provide selected region-specific missile warning information. SEWS Integration and Test facility is kept current by enhancing systems to improve analysis of real world events. To enhance mission capability the SEWS program tests message format updates, cross domain solution updates, mandatory crypto upgrades, SEWS integration with other warning systems, and the transition to "coalition-based" warning.

Activities also include studies and analysis to support both current program planning and execution and future program planning.

In FY 2020, no funding is requested and no funding is required as all SEWS development was completed.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver SEWS capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, and 0605898F.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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.

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B. Program Change Summary (\$ in Millions)				FY 2018	FY 2019	FY 2020 Base		FY 2020 OCO		FY 2020 Total	
Previous President's Budget				1.373	0.000	0.000		0.000		0.000	
Current President's Budget				1.327	0.000	0.000		0.000		0.000	
Total Adjustments				-0.046	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				0.000	0.000						
• SBIR/STTR Transfer				-0.046	0.000						
• Other Adjustments				0.000	0.000	0.000		0.000		0.000	
C. Accomplishments/Planned Programs (\$ in Millions)						FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	
Title: Shared Early Warning System (SEWS)						1.327	0.000	0.000	0.000	0.000	
Description: SEWS development of common architecture and initiatives as identified by theater commanders.											
FY 2019 Plans: N/A											
FY 2020 Base Plans: N/A											
FY 2020 OCO Plans: N/A											
FY 2019 to FY 2020 Increase/Decrease Statement: N/A											
Accomplishments/Planned Programs Subtotals						1.327	0.000	0.000	0.000	0.000	
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• OPAF 03 Line Item	0.392	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	0.392
838010: Comm Elect Mods											

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D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u> <u>Base</u>	<u>FY 2020</u> <u>OCO</u>	<u>FY 2020</u> <u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
Remarks E. Acquisition Strategy The acquisition strategy is to build on existing capabilities using evolutionary acquisition to modernize and sustain SEWS. The program office serves as the SEW system integrator, relying on a Prime Contractor for Logistics, Operations, and Sustainment support. This contract was re-competed through full and open competition in 2017 and was awarded to a small business. The current contract has a Period of Performance (PoP) through 30 Sep 2018. Additionally, some SEWS requirements are satisfied through Military Interdepartmental Purchase Requests to external programs of record.											
F. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 1203699F / Shared Early Warning (SEW)				Project (Number/Name) 674838 / Shared Early Warning System					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SEWS System Development	C/CPIF	Lockheed Martin : Colorado Springs, CO	-	0.877	Oct 2017	0.000		0.000		0.000		0.000	0.000	0.877	-
SEWS Integration and Modernization	MIPR	US Navy : San Diego, CA	-	0.195	Mar 2018	0.000		0.000		0.000		0.000	0.000	0.195	-
SEWS Additional Product Development	MIPR	Various : Colorado Springs, CO	-	0.090	Sep 2018	0.000		0.000		0.000		0.000	0.000	0.090	-
Subtotal			-	1.162		0.000		0.000		0.000		0.000	0.000	1.162	N/A
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SEWS Systems Engineering	SS/CPFF	MITRE : Colorado Springs, CO	-	0.165	Nov 2017	0.000		0.000		0.000		0.000	0.000	0.165	-
Subtotal			-	0.165		0.000		0.000		0.000		0.000	0.000	0.165	N/A
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1.327		0.000		0.000		0.000		0.000	0.000	1.327	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Air Force			Date: February 2019		
Appropriation/Budget Activity 3600 / 7		R-1 Program Element (Number/Name) PE 1203699F / <i>Shared Early Warning (SEW)</i>			Project (Number/Name) 674838 / <i>Shared Early Warning System</i>

	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Shared Early Warning System (SEWS)																												
Investigation of solutions for emerging Combatant Command (CCMD) and Joint Staff validated requirements and needed Shared Early Warning (SEW) system enhancements																												
Cross Domain Solution (CDS) Common Message Format (CMF) Data Sharing Improvements																												
Accuracy Improvements Development/Test																												
Shared Early Warning System (SEWS) Mobile System Development/Integration/Test																												
FPTNS Phase 3 Design/Development/Integration/Test																												
Agile Client Testing																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force			Date: February 2019
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 1203699F / <i>Shared Early Warning (SEW)</i>	Project (Number/Name) 674838 / <i>Shared Early Warning System</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Shared Early Warning System (SEWS)</i>				
Investigation of solutions for emerging Combatant Command (CCMD) and Joint Staff validated requirements and needed Shared Early Warning (SEW) system enhancements	1	2018	4	2018
Cross Domain Solution (CDS) Common Message Format (CMF) Data Sharing Improvements	1	2018	4	2018
Accuracy Improvements Development/Test	1	2018	2	2019
Shared Early Warning System (SEWS) Mobile System Development/Integration/Test	1	2018	1	2019
FPTNS Phase 3 Design/Development/Integration/Test	1	2018	1	2018
Agile Client Testing	1	2018	2	2018