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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 0305146F I Defense Joint Counterintelligence Activities							
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	-	4.520	3.845	6.858	0.000	6.858	6.864	6.873	6.881	6.873	Continuing	Continuing
671931: TECH SURVEIL COUNTER MEAS EQPT	-	4.520	3.845	6.858	0.000	6.858	6.864	6.873	6.881	6.873	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

## A. Mission Description and Budget Item Justification

Technical Surveillance Countermeasures (TSCM) develops future technologies capable of thwarting advanced, hostile force technical capabilities. The technologies will provide secure environments for austere mission planning locations and theater commander centers, and will collect information for CI operations in support of DoD and AF requirements.

Cyber CI enables the Air Force Office of Special Investigations to detect and deter covert activities conducted by Foreign Intelligence Entities seeking to compromise classified or sensitive information in cyberspace. The technologies provided will provide state of the art capabilities to detect and neutralize criminal activities targeted against sensitive and classified AF and DoD information and activities.

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.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>	<b>FY 2020 Total</b>
Previous President's Budget	3.867	3.845	3.852	0.000	3.852
Current President's Budget	4.520	3.845	6.858	0.000	6.858
Total Adjustments	0.653	0.000	3.006	0.000	3.006
• 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	0.000	0.000			
• Other Adjustments	0.653	0.000	3.006	0.000	3.006

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Technical Surveillance Countermeasures (TSCM)  <b>Description:</b> TSCM will develop future technologies capable of thwarting advanced, hostile force technical capabilities. They will be developed to provide secure environments to austere mission planning locations, theater commander centers, and will collect information for counterthreat operations in support of DoD and AF requirements.  <b>FY 2019 Plans:</b> Continue advancement of BLUE LANCER for the collection/exploitation of evidence against a wide variety of serious offenses. Funds will also be used to develop next generation Technical Surveillance Countermeasures (TSCM) tools to defend against emerging foreign technical intelligence capabilities targeting sensitive protected information for exploitation.  <b>FY 2020 Plans:</b> Continue advancement of BLUE LANCER for the collection/exploitation of evidence against a wide variety of serious offenses. Funds will also be used to develop next generation Technical Surveillance Countermeasures (TSCM) tools to defend against emerging foreign technical intelligence capabilities targeting sensitive protected information for exploitation.  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> Increase due to inflation.		0.367	0.371	0.378
<b>Title:</b> Cyber Counterintelligence Pilot  <b>Description:</b> N/A  <b>FY 2019 Plans:</b> Continue R&D for new iterations of Cyber CI/COPPER CASTLE to address advancements in cyber domain, in order to neutralize foreign intelligence entities from stealing and exploiting sensitive DoD information.  <b>FY 2020 Plans:</b> Continue R&D for new iterations of Cyber CI/COPPER CASTLE to address advancements in cyber domain, in order to neutralize foreign intelligence entities from stealing and exploiting sensitive DoD information.  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> Additional 3600 funds were accepted in the FY20 POM for 35146F to enhance Cyber CI.		4.153	3.474	6.480
<b>Accomplishments/Planned Programs Subtotals</b>		4.520	3.845	6.858

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<b>D. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>	<b>FY 2020 Total</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• O&M 35146F: <i>Defense Joint Counterintelligence Program</i>	46,411.000	45,925.000	57,429.000	-	57,429.000	61,430.000	64,082.000	66,005.000	67,312.000	Continuing	Continuing
<b>Remarks</b>											
<b>E. Acquisition Strategy</b> Defense Joint Counterintelligence Program TSCM funds will be obligated on competitively awarded contracts. Cyber counterintelligence (CI) funding will be obligated on an existing Air Force contract with MIT/Lincoln Labs.											
<b>F. Performance Metrics</b> 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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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2020 Air Force												<b>Date:</b> February 2019			
<b>Appropriation/Budget Activity</b> 3600 / 7						<b>R-1 Program Element (Number/Name)</b> PE 0305146F / <i>Defense Joint Counterintelligence Activities</i>				<b>Project (Number/Name)</b> 671931 / <i>TECH SURVEIL COUNTER MEAS EQPT</i>					

  

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
Naval Research Lab	MIPR	Navy/Air Force : Williamsburg, VA	-	0.367	Dec 2018	0.371	Jan 2019	0.378	Jan 2020	-		0.378	Continuing	Continuing	-
MIT/Lincoln Labs	RO	Air Force : Lexington, MA	-	4.153	Mar 2018	3.474	Mar 2019	6.480	Jan 2020	-		6.480	Continuing	Continuing	-
<b>Subtotal</b>			-	4.520		3.845		6.858		-		6.858	Continuing	Continuing	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
<b>Project Cost Totals</b>	-	4.520	3.845	6.858	-	6.858	Continuing	Continuing	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 0305146F / Defense Joint Counterintelligence Activities										Project (Number/Name) 671931 / TECH SURVEIL COUNTER MEAS EQPT									

	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
Develop Cyber CI/Copper Castle																												
Develop Counterintelligence Equipment and Software																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force		Date: February 2019
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Develop Cyber CI/Copper Castle</i>				
Develop Counterintelligence Equipment and Software	1	2018	4	2024