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**Exhibit R-2, RDT&E Budget Item Justification:** FY 2018 Air Force **Date:** May 2017

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>					<b>R-1 Program Element (Number/Name)</b> PE 0307577F <i>I Intelligence Mission Data (IMD)</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	-	0.000	0.000	8.684	0.000	8.684	4.148	2.048	1.269	1.294	Continuing	Continuing
675306: <i>Analysis Enterprise</i>	-	0.000	0.000	5.074	0.000	5.074	1.347	1.248	1.269	1.294	Continuing	Continuing
675307: <i>TARGETING ENTERPRISE RESEARCH</i>	-	0.000	0.000	3.610	0.000	3.610	2.801	0.800	0.000	0.000	Continuing	Continuing

## **Note**

This program, BA 07 PE 0307577F, project 675306, IMD Production Tools, is a new start.

This program, BA 07 PE 0307577F, project 675307, Operational Reconnaissance ELINT Capabilities, is a new start.

This program, BA 07 PE 0307577F, project 675307, Advanced NCTR Collection, is a new start.

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

Intelligence Mission Data (IMD) is part of the ELINT initiative to improve overall USAF intelligence, surveillance, and reconnaissance (ISR) capability through development and use of sensor data from non-ISR platforms and innovative use of sensors. This program pursues operational reconnaissance capabilities for transition through development, testing, demonstration and implementation efforts across all platforms. The IMD program objective is to provide increased battlespace awareness through the use of sensors/platforms to achieve effects beyond what those sensor/platforms were originally designed. This Electronic Warfare (EW) data provides high fidelity collection on detected emissions within the electromagnetic spectrum as encountered by the platform during normal conduct of the mission. Utilizing machine-to-machine interfaces for data transfer from platforms to ISR analysts during combat operations will provide a prime source of information when fused with other data sources and will help to resolve anomalies without degradation of the platform's EW sensor's primary mission/function. IMD will be stored long term in the Electronic Warfare Data Management System (EWDMS) and made available to multiple customers. This data will be used to aid in reprogramming EW sensors for increased platform survivability as well as advanced analytics for intelligence purposes.

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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force				Date: May 2017	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development		PE 0307577F I Intelligence Mission Data (IMD)			
B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	8.684	0.000	8.684
Total Adjustments	0.000	0.000	8.684	0.000	8.684
• 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	0.000	0.000	8.684	0.000	8.684

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0307577F / <i>Intelligence Mission Data (IMD)</i>				<b>Project (Number/Name)</b> 675306 / <i>Analysis Enterprise</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
675306: <i>Analysis Enterprise</i>	-	0.000	0.000	5.074	0.000	5.074	1.347	1.248	1.269	1.294	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**  
This program, BA 07 PE 0307577F, project 675306, IMD Production Tools, is a new start.

**A. Mission Description and Budget Item Justification**  
In FY 2018, PE 0207431F, Combat Air Intelligence Systems, Intelligence Mission Data efforts were transferred to new for 2018 PE 0307577F, Intelligence Mission Data (IMD), in order to provide better oversight of IMD research and development. (+\$5.074M)

Intelligence Mission Data efforts in BPAC 675306, Analysis Enterprise, fund RDT&E for IMD Production Tools. These tools enable the collection, storage, and dissemination of Electronic Intelligence (ELINT) gathered during operational missions by currently fielded air platforms.

<b><u>B. Accomplishments/Planned Programs (\$ in Millions)</u></b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
<b><i>Title:</i></b> IMD Production Tools	-	-	5.074
<b><i>Description:</i></b> Development of software tools to facilitate the production & dissemination of actionable electronic intelligence based on intelligence mission data			
<b><i>FY 2018 Plans:</i></b> Development of software tools to facilitate the production & dissemination of actionable electronic intelligence based on intelligence mission data			
<b>Accomplishments/Planned Programs Subtotals</b>	-	-	5.074

**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018 Base</u>	<u>FY 2018 OCO</u>	<u>FY 2018 Total</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• N/A: N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-

**Remarks**

**D. Acquisition Strategy**  
N/A

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Force		Date: May 2017
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0307577F / Intelligence Mission Data (IMD)	Project (Number/Name) 675306 / Analysis Enterprise
<b>E. 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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Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Force										Date: May 2017		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0307577F / Intelligence Mission Data (IMD)				Project (Number/Name) 675307 / TARGETING ENTERPRISE RESEARCH			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
675307: TARGETING ENTERPRISE RESEARCH	-	0.000	0.000	3.610	0.000	3.610	2.801	0.800	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note												
This program, BA 07 PE 0307577F, project 675307, Operational Reconnaissance ELINT Capabilities, is a new start. This program, BA 07 PE 0307577F, project 675307, Advanced NCTR Collection, is a new start.												
A. Mission Description and Budget Item Justification												
In FY 2018, PE 0207431F, Combat Air Intelligence Systems, Intelligence Mission Data efforts were transferred to new for 2018 PE 0307577F, Intelligence Mission Data (IMD), in order to provide better oversight of IMD research and development. (+\$5.074M)												
Intelligence Mission Data efforts in BPAC 675307, Targeting Enterprise Research, fund RDT&E for Operational Reconnaissance ELINT Capabilities; Tactical Data Recorder; Advanced Non-cooperative Target Recognition (NCTR) Collection.												
These tools enable the collection, storage, and dissemination of Electronic Intelligence (ELINT) gathered during operational missions by currently fielded air platforms.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2016	FY 2017	FY 2018	
Title: Operational Reconnaissance ELINT Capabilities									-	-	1.805	
Description: RDT&E efforts to develop recording, storage, and dissemination systems for ELINT gathered during operational missions.												
FY 2018 Plans:												
RDT&E efforts to develop recording, storage, and dissemination systems for ELINT gathered during operational missions.												
Title: Advanced NCTR Collection									-	-	1.805	
Description: RDT&E efforts to accurately characterize and disseminate information about targets based on information gathered by aircraft NCTR system.												
FY 2018 Plans:												
RDT&E efforts to accurately characterize and disseminate information about targets based on information gathered by aircraft NCTR system.												
Accomplishments/Planned Programs Subtotals									-	-	3.610	

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Force		Date: May 2017
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0307577F / Intelligence Mission Data (IMD)	Project (Number/Name) 675307 / TARGETING ENTERPRISE RESEARCH
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A		
<b>Remarks</b>		
<b>D. Acquisition Strategy</b> N/A		
<b>E. 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.		