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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 0207249F I Precision Attack Systems Procurement							
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	-	1.651	14.891	10.696	0.000	10.696	11.104	12.283	12.507	12.733	Continuing	Continuing
675347: Advanced Targeting Pod	-	1.651	14.891	10.696	0.000	10.696	11.104	12.283	12.507	12.733	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Advanced Targeting Pods (ATPs) provide long-range target acquisition and expanded weapon delivery envelopes for greater aircraft survivability. ATPs feature an infrared (IR) sensor, charged coupled device television (CCD-TV), laser designator, eye-safe laser, laser spot tracker, infrared marker, and real-time video data link for connectivity with ground forces. As non-developmental items, the majority of improvements to ATPs are the result of investments made by industry Internal Research and Development (IRAD). In addition to operational flight program (OFP) development, this funding provides for the development and integration of capabilities which are either above the capabilities of the industrial base or that require accelerated development timelines in order to meet operational requirements. It also includes program management support, technical analysis, studies and assessments necessary to support the development and integration of future capabilities. Data-linking is one such area where there is an identified gap between industrial capabilities and operational requirements. Additional development efforts will be structured to support the documented ATP requirements as well as urgent operational needs (UONs) as they become known.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver precision attack weapon system capability. 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, 0605898F, and 0605833F.

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	1.714	14.891	10.696	0.000	10.696	
Current President's Budget	1.651	14.891	10.696	0.000	10.696	
Total Adjustments	-0.063	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	-0.063	0.000				
• Other Adjustments	0.000	0.000	0.000	0.000	0.000	
Change Summary Explanation No significant changes						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2018	FY 2019	FY 2020
Title: Advanced Targeting Pod - Sensor Enhancement (ATP-SE) Requirements				1.651	14.891	10.696
Description: ATP-SE technology improvements, requirements definition (studies, analysis and assessments).						
FY 2019 Plans: Accomplish ATP-SE Operational Flight Program (OFP) requirements, and further technology improvements, requirements definition, studies, analysis and assessments.						
As the pod fleet meets the user requirement and the updates near completion, the funding for aircraft OFP updates were redirected from 3010 to 3600 funds.						
FY 2020 Plans: Accomplish ATP-SE Operational Flight Program (OFP) requirements, and further technology improvements, requirements definition, studies, analysis and assessments.						
As the pod fleet meets the user requirement and the updates near completion, the funding for aircraft OFP updates were redirected from 3010 to 3600 funds.						
FY 2019 to FY 2020 Increase/Decrease Statement:						

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<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 0207249F / <i>Precision Attack Systems Procurement</i>							
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>										<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Funding decreased to align with aircraft OFP requirements.												
<b>Accomplishments/Planned Programs Subtotals</b>										1.651	14.891	10.696
<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>	
• APAF 05 Line Item 057: <i>Other Aircraft, Precision Attack Systems Modifications</i>	43.857	71.689	43.482	-	43.482	44.429	15.129	15.884	52.868	Continuing	Continuing	
• APAF 06 Line Item 000999: <i>Initial Spares/Repair Parts</i>	2.944	3.310	3.367	-	3.367	3.428	3.497	3.560	3.624	Continuing	Continuing	
<b>Remarks</b>												
<b>E. Acquisition Strategy</b> N/A												
<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: PB 2020 Air Force</b>												<b>Date: February 2019</b>			
<b>Appropriation/Budget Activity</b> 3600 / 7						<b>R-1 Program Element (Number/Name)</b> PE 0207249F / Precision Attack Systems Procurement						<b>Project (Number/Name)</b> 675347 / Advanced Targeting Pod			
<b>Product Development (\$ 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>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
ATP-SE: OFP, Technology Improvement, Tech Analysis, Studies & Assessments	C/FFP	NGC, LM, AFRL : AFRL, WPAFB	-	-		13.241	Nov 2018	10.696	Nov 2019	-		10.696	Continuing	Continuing	-
<b>Subtotal</b>			-	-		13.241		10.696		-		10.696	Continuing	Continuing	N/A
<b>Test and Evaluation (\$ 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>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
ATP-SE: Risk Reduction	C/FFP	Multiple : Various	-	1.651	Aug 2018	1.650	Nov 2018	-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			-	1.651		1.650		-		-		-	Continuing	Continuing	N/A
			<b>Prior Years</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>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			-	1.651		14.891		10.696		-		10.696	Continuing	Continuing	N/A
<b>Remarks</b>															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</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 0207249F / <i>Precision Attack Systems Procurement</i>			<b>Project (Number/Name)</b> 675347 / <i>Advanced Targeting Pod</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
<b>ATP</b>																												
Sniper ATP-SE Digital Video																												
Future ATP-SE Enhancements																												
FY18 OFP Integration																												
FY19 OFP Integration																												
FY20 OFP Integration																												
FY21 OFP Integration																												
FY22 OFP Integration																												
FY23 OFP Integration																												
FY24 OFP Integration																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</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 0207249F / <i>Precision Attack Systems Procurement</i>	<b>Project (Number/Name)</b> 675347 / <i>Advanced Targeting Pod</i>	

**Schedule Details**

<b>Events by Sub Project</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
<b>ATP</b>				
Sniper ATP-SE Digital Video	1	2020	3	2021
Future ATP-SE Enhancements	2	2018	4	2024
FY18 OFP Integration	2	2018	1	2020
FY19 OFP Integration	1	2019	1	2020
FY20 OFP Integration	1	2020	1	2021
FY21 OFP Integration	1	2021	1	2022
FY22 OFP Integration	1	2022	1	2023
FY23 OFP Integration	1	2023	1	2024
FY24 OFP Integration	1	2024	4	2024