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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 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0207249F / <i>Precision Attack Systems Procurement</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	-	14.346	10.696	9.261	0.000	9.261	12.264	12.484	12.708	12.942	Continuing	Continuing
675347: <i>Advanced Targeting Pod</i>	-	14.346	10.696	9.261	0.000	9.261	12.264	12.484	12.708	12.942	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 0605831F.

The FY 2021 funding request was reduced by \$1.826 million to account for the availability of prior year execution balances.

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	14.891	10.696	11.104	0.000	11.104
Current President's Budget	14.346	10.696	9.261	0.000	9.261
Total Adjustments	-0.545	0.000	-1.843	0.000	-1.843
• 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	-0.545	0.000			
• Other Adjustments	0.000	0.000	-1.843	0.000	-1.843

Change Summary Explanation

The FY 2021 funding request was reduced by \$1.826 million to account for the availability of prior year execution balances. Additional adjustments are due to inflation fluctuation.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
<p>Title: Advanced Targeting Pod - Sensor Enhancement (ATP-SE) Requirements</p> <p>Description: ATP-SE technology improvements, requirements definition (studies, analysis and assessments).</p> <p>FY 2020 Plans: Accomplish ATP-SE Operational Flight Program (OFP) requirements, and further technology improvements, requirements definition, studies, analysis and assessments.</p> <p>As the pod fleet meets the user requirement and the updates near completion, the funding for aircraft OFP updates redirects from APAF to RDT&E funding.</p> <p>FY 2021 Plans: Accomplish ATP-SE Operational Flight Program (OFP) requirements, and further technology improvements, requirements definition, studies, analysis and assessments.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding decreased due to realignment of funding to meet higher service priorities.</p>	14.346	10.696	9.261
Accomplishments/Planned Programs Subtotals	14.346	10.696	9.261

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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>
• APAF 05 Line Item 057: <i>Other Aircraft, Precision Attack Systems Modifications</i>	71.689	43.482	44.413	-	44.413	15.129	15.879	52.852	53.820	Continuing	Continuing
• APAF 06 Line Item 000999: <i>Initial Spares/Repair Parts</i>	3.310	3.367	3.427	-	3.427	3.497	3.559	3.623	3.689	Continuing	Continuing

Remarks

E. Acquisition Strategy

Current OFP development contract utilizes a firm-fixed price contract.

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207249F / Precision Attack Systems Procurement	Project (Number/Name) 675347 / Advanced Targeting Pod

	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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
ATP-SE																												
Sniper ATP-SE Digital Video																												
Future ATP-SE Enhancements																												
FY19 OFP Integration																												
FY20 OFP Integration																												
FY21 OFP Integration																												
FY22 OFP Integration																												
FY23 OFP Integration																												
FY24 OFP Integration																												
FY25 OFP Integration																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207249F / <i>Precision Attack Systems Procurement</i>	Project (Number/Name) 675347 / <i>Advanced Targeting Pod</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ATP-SE				
Sniper ATP-SE Digital Video	1	2020	3	2021
Future ATP-SE Enhancements	1	2020	4	2024
FY19 OFP Integration	2	2019	1	2020
FY20 OFP Integration	2	2020	1	2021
FY21 OFP Integration	2	2021	1	2022
FY22 OFP Integration	2	2022	1	2023
FY23 OFP Integration	2	2023	1	2024
FY24 OFP Integration	2	2024	1	2025
FY25 OFP Integration	1	2025	4	2025