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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0604830F: Automated Air-to-Air Refueling							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	9.610	43.158	0.085	0.000	0.085	0.000	0.000	0.000	0.000	Continuing	Continuing
642214: Optionally Unmanned Development	9.610	43.158	0.085	0.000	0.085	0.000	0.000	0.000	0.000	0.000	0.000
A. Mission Description and Budget Item Justification (U) A. Mission Description and Budget Item Justification This program develops single channel Precision GPS (PGPS) system to support Automated Aerial Refueling (AAR) for future manned and unmanned air systems (UAS) The FY10 funding will support the development of the single channel PGPS and close out of the Automated Aerial Refueling Phase II Program. This funding supports open loop flight demonstration of real-time PGPS performance. From FY04-08, the Next Generation Bomber PE 0604015F funded critical technology maturation and risk reduction efforts that could feed into a long-range strike platform in the future. AAR Phase II is a critical technology for future manned and unmanned long-range strike operations. AAR Phase I technology has been demonstrated, but it requires additional maturation, development, and integration to be demonstrated for operational utility. Automated Air-to-Air Refueling is categorized as a Budget Activity 4, Advanced Component Development, and Prototypes, since advanced technologies will be explored and integrated for demonstration in a realistic operating environment.											

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0604830F: Automated Air-to-Air Refueling			
BA 4: Advanced Component Development & Prototypes (ACD&P)					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	9.862	43.158	0.000	0.000	0.000
Current President's Budget	9.610	43.158	0.085	0.000	0.085
Total Adjustments	-0.252	0.000	0.085	0.000	0.085
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	-0.252	0.000	0.085	0.000	0.085
Change Summary Explanation					
The FY 2010 President's Budget submittal did not reflect FY 2011 though FY 2015 funding. Therefore, explanation of changes between the two budget positions cannot be made in a relevant manner.					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0604830F: <i>Automated Air-to-Air Refueling</i>				PROJECT 642214: <i>Optionally Unmanned Development</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
642214: <i>Optionally Unmanned Development</i>	9.610	43.158	0.085	0.000	0.085	0.000	0.000	0.000	0.000	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

(U) A. Mission Description and Budget Item Justification
This program develops single channel Precision GPS (PGPS) system to support Automated Aerial Refueling (AAR) for future manned and unmanned air systems (UAS)

The FY10 funding will support the development of the single channel PGPS and close out of the Automated Aerial Refueling Phase II Program. This funding supports open loop flight demonstration of real-time PGPS performance.

From FY04-08, the Next Generation Bomber PE 0604015F funded critical technology maturation and risk reduction efforts that could feed into a long-range strike platform in the future. AAR Phase II is a critical technology for future manned and unmanned long-range strike operations. AAR Phase I technology has been demonstrated, but it requires additional maturation, development, and integration to be demonstrated for operational utility.

Automated Air-to-Air Refueling is categorized as a Budget Activity 4, Advanced Component Development, and Prototypes, since advanced technologies will be explored and integrated for demonstration in a realistic operating environment.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Development of flight control and precision navigation (PGPS) systems for initial capability of automated air-to-air refueling	9.610	43.158	0.085	0.000	0.085

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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
<p><i>FY 2009 Accomplishments:</i> In FY 2009: Develop flight control and precision navigation (PGPS) systems for initial capability of automated air-to-air refueling and the integration and testing of automated air-to-air refueling flight controls and precision navigation initial capability</p> <p><i>FY 2010 Plans:</i> In FY 2010: Integrate and start testing automated air-to-air refueling flight controls and precision navigation initial capability using a KC-135 tanker and a limited test aircraft. Continue development of the single channel PGPS and begin close out of the Automated Aerial Refueling Phase II Program. This funding supports open loop flight demonstration of real-time PGPS performance.</p> <p><i>FY 2011 Base Plans:</i> In FY 2011: Finishes close-out of Automated Aerial Refueling Program.</p> <p><i>FY 2011 OCO Plans:</i> In FY 2011 OCO: Not Applicable.</p>											
Accomplishments/Planned Programs Subtotals						9.610	43.158	0.085	0.000	0.085	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE Not Provided (14752): <i>Activity Not Provided</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
D. Acquisition Strategy Principal acquisitions to be performed through Broad Area Announcements (BAA) resulting in competitive Cost Plus Fixed Fee contracts.											

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E. 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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<p>Product Development (\$ in Millions)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Cost Category Item</th> <th rowspan="2">Contract Method & Type</th> <th rowspan="2">Performing Activity & Location</th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>Precision GPS Development</td> <td>C/CPFF</td> <td>Northrop Grumman Woodland Hills, CA</td> <td align="right">4.000</td> <td align="right">9.500</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">13.500</td> <td align="right">0.000</td> </tr> <tr> <td>Tactical Targeting Network Technology (TTNT)</td> <td>C/CPFF</td> <td>Rockwell Collins Cedar Rapids IA</td> <td align="right">0.100</td> <td align="right">0.200</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">0.300</td> <td align="right">0.000</td> </tr> <tr> <td>Phase II System Development and Demonstration</td> <td>C/CPFF</td> <td>Boeing St Louis, MO</td> <td align="right">3.900</td> <td align="right">18.260</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">22.160</td> <td align="right">0.000</td> </tr> <tr> <td align="right" colspan="3">Subtotal</td><td align="right">8.000</td><td align="right">27.960</td><td></td><td align="right">0.000</td><td></td><td align="right">0.000</td><td></td><td align="right">0.000</td><td align="right">0.000</td><td align="right">35.960</td><td align="right">0.000</td> </tr> </tbody> </table>														Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Precision GPS Development	C/CPFF	Northrop Grumman Woodland Hills, CA	4.000	9.500		0.000		0.000		0.000	0.000	13.500	0.000	Tactical Targeting Network Technology (TTNT)	C/CPFF	Rockwell Collins Cedar Rapids IA	0.100	0.200		0.000		0.000		0.000	0.000	0.300	0.000	Phase II System Development and Demonstration	C/CPFF	Boeing St Louis, MO	3.900	18.260		0.000		0.000		0.000	0.000	22.160	0.000	Subtotal			8.000	27.960		0.000		0.000		0.000	0.000	35.960	0.000
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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force							DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>			R-1 ITEM NOMENCLATURE PE 0604830F: <i>Automated Air-to-Air Refueling</i>			PROJECT 642214: <i>Optionally Unmanned Development</i>			
<div style="display: flex; justify-content: space-between;"> <div style="width: 25%;"></div> <div style="width: 20%; text-align: center;"> Total Prior Years Cost </div> <div style="width: 10%; text-align: center;"> FY 2010 </div> <div style="width: 10%; text-align: center;"> FY 2011 Base </div> <div style="width: 10%; text-align: center;"> FY 2011 OCO </div> <div style="width: 10%; text-align: center;"> FY 2011 Total </div> <div style="width: 10%; text-align: center;"> Cost To Complete </div> <div style="width: 10%; text-align: center;"> Total Cost </div> <div style="width: 10%; text-align: center;"> Target Value of Contract </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 25%;">Project Cost Totals</div> <div style="width: 20%; text-align: center;">9.610</div> <div style="width: 10%; text-align: center;">43.158</div> <div style="width: 10%; text-align: center;">0.085</div> <div style="width: 10%; text-align: center;">0.000</div> <div style="width: 10%; text-align: center;">0.085</div> <div style="width: 10%; text-align: center;">0.000</div> <div style="width: 10%; text-align: center;">52.853</div> <div style="width: 10%; text-align: center;">0.000</div> </div>									
Remarks Total Prior Years Cost may include only FY 2009 data.									

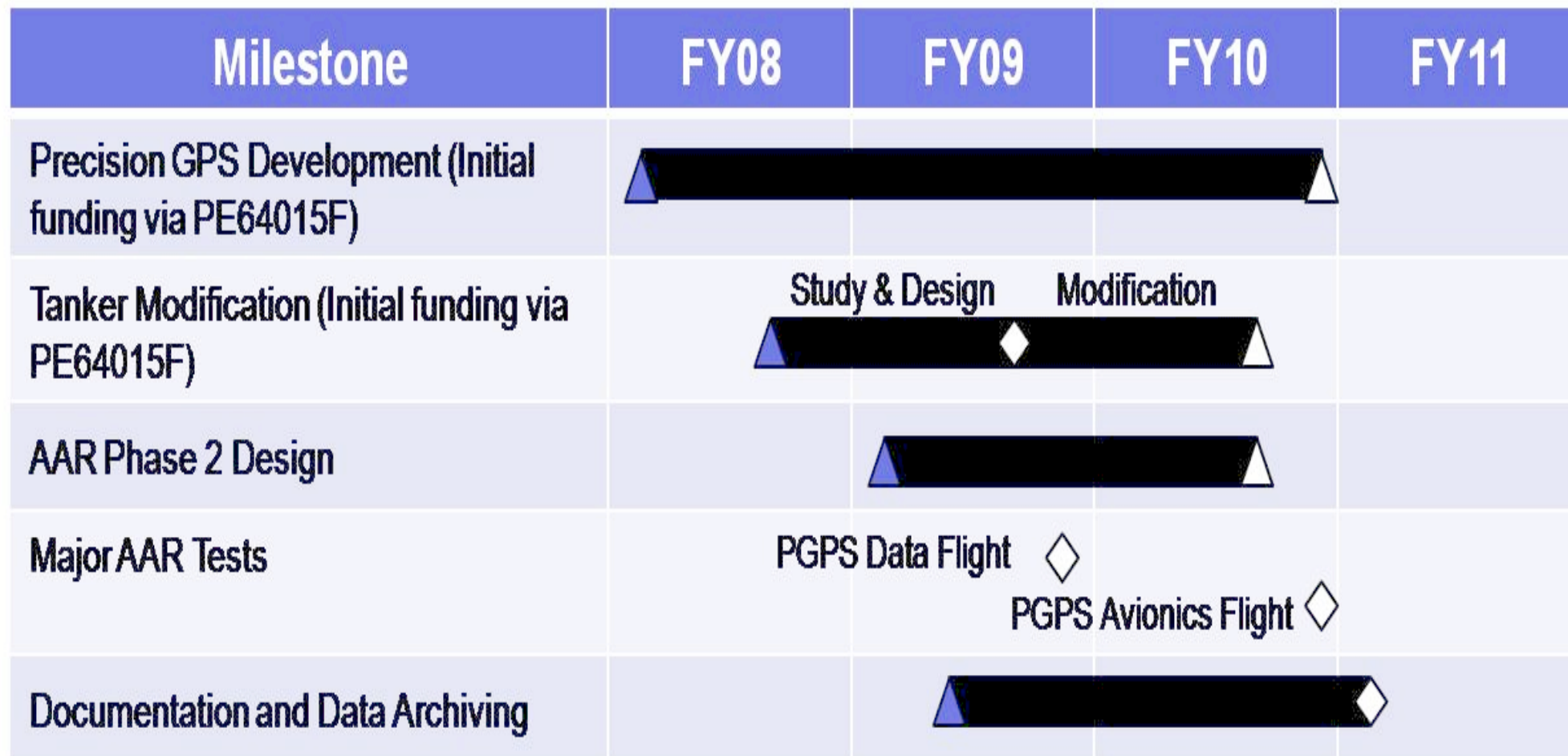
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R-1 Line Item #55

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604830F: <i>Automated Air-to-Air Refueling</i>	PROJECT 642214: <i>Optionally Unmanned Development</i>



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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604830F: <i>Automated Air-to-Air Refueling</i>	PROJECT 642214: <i>Optionally Unmanned Development</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Precision GPS Development (Initial funding via PE64015F)	1	2009	4	2010
Tanker Modification (Initial funding via PE64015F)	1	2009	3	2010
AAR Phase 2 Design	1	2009	3	2010
PGPS Data Flight Test	4	2009	4	2009
PGPS Avionics Flight Test	4	2010	4	2010
Documentation and Data Archiving	2	2009	1	2011

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