

**UNCLASSIFIED**

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603801A: Aviation - Adv Dev							
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	7.223	8.492	8.355	0.000	8.355	7.704	9.085	8.705	7.808	Continuing	Continuing
B32: ADV MAINT CONCEPTS/EQ	7.223	8.492	8.355	0.000	8.355	7.704	9.085	8.705	7.808	Continuing	Continuing
Note Not applicable for this item											
A. Mission Description and Budget Item Justification This PE provides advanced development aviation support of tactical programs associated with air mobility, advanced maintenance concepts and equipment, and Aircrew Integrated Systems (ACIS). This program demonstrates the feasibility and maturity of new technology and gains understanding in order to evaluate utility of this technology to expedite delivery of new capabilities for Army Aviation rotary wing assets. Additionally, the Aviation Ground Support Equipment (AGSE) assets enhance the functionality of current and future aircraft by improving the effectiveness of maintenance and servicing operations through validating new maintenance concepts to improve man and machine interfaces, improve aircraft maintenance processes, reduce Operation and Support (O&S) cost and insert diagnostics technologies to replace obsolete and unsupportable equipment.											
B. Program Change Summary (\$ in Millions)											
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total						
Previous President's Budget	9.822	8.537	8.399	0.000	8.399						
Current President's Budget	7.223	8.492	8.355	0.000	8.355						
Total Adjustments	-2.599	-0.045	-0.044	0.000	-0.044						
• Congressional General Reductions		-0.045									
• Congressional Directed Reductions		0.000									
• Congressional Rescissions	0.000	0.000									
• Congressional Adds		0.000									
• Congressional Directed Transfers		0.000									
• Reprogrammings	-2.324	0.000									
• SBIR/STTR Transfer	-0.275	0.000									
• Adjustments to Budget Years	0.000	0.000	-0.044	0.000	-0.044						

**UNCLASSIFIED**

R-1 Line Item #66

Page 1 of 16

249 of 1922

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Army								<b>DATE:</b> February 2010																											
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0603801A: <i>Aviation - Adv Dev</i>				<b>PROJECT</b> B32: <i>ADV MAINT CONCEPTS/EQ</i>																											
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>																								
B32: <i>ADV MAINT CONCEPTS/EQ</i>	7.223	8.492	8.355	0.000	8.355	7.704	9.085	8.705	7.808	Continuing	Continuing																								
Quantity of RDT&E Articles																																			
<p><b>Note</b> Not applicable for this item.</p> <p><b>A. Mission Description and Budget Item Justification</b> This PE provides advanced development aviation support of programs that include advanced maintenance concepts and equipment. The FY 2011 budget request funds Aviation Advanced Development which supports Aviation Ground Support Equipment development prototypes that will enhance the functionality of current and future aircraft by improving the effectiveness of maintenance and servicing operations through validating new maintenance concepts to improve man and machine interfaces, improve aircraft maintenance processes, reduce Operation and Support (O&amp;S) cost, and insert diagnostics technologies to replace obsolete and unsupportable equipment. This program provides for development of rapid battle repair procedures, tools development to speed the return of aircraft to a full mission status and development of new equipment for aerial recovery of damaged aircraft. Included in this program are projects such as: diagnostics/prognostic monitoring systems, Battle Damage Assessment and Repair (BDAR) Block II procedures and tools, Flexible Engine Diagnostic System (FEDS), Unit Maintenance Aerial Recovery Kit (UMARK), Aviation Light Utility Mobile Maintenance Cart (ALUMMC), Shop Equipment Contact Maintenance (SECM), Aviation - Sets, Kits, Outfits and Tools (A-SKOT) redesign, development of the modular Aviation Ground Power Unit (AGPU), Hand Held Fire Extinguisher (HHFE), and development support for tools needed to provide maintenance support to modernized/future force aircraft.</p> <p><b>B. Accomplishments/Planned Program (\$ in Millions)</b></p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width:60%;"></td> <td align="center"><b>FY 2009</b></td> <td align="center"><b>FY 2010</b></td> <td align="center"><b>FY 2011 Base</b></td> <td align="center"><b>FY 2011 OCO</b></td> <td align="center"><b>FY 2011 Total</b></td> </tr> <tr> <td>Program #1</td> <td align="center">1.110</td> <td align="center">0.750</td> <td align="center">0.830</td> <td align="center">0.000</td> <td align="center">0.830</td> </tr> <tr> <td>    Hand Held Fire Extinguisher (HHFE)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>    <i>FY 2009 Accomplishments:</i>     FY 2009</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>													<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>	Program #1	1.110	0.750	0.830	0.000	0.830	Hand Held Fire Extinguisher (HHFE)						<i>FY 2009 Accomplishments:</i> FY 2009					
	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>																														
Program #1	1.110	0.750	0.830	0.000	0.830																														
Hand Held Fire Extinguisher (HHFE)																																			
<i>FY 2009 Accomplishments:</i> FY 2009																																			

**UNCLASSIFIED**

R-1 Line Item #66

Page 2 of 16

250 of 1922

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603801A: Aviation - Adv Dev		PROJECT B32: ADV MAINT CONCEPTS/EQ		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #2  Battle Damage Assessment and Repair System (BDAR) Block II		0.300	0.400	0.000	0.000	0.000
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #3  Standard Aircraft Towing System (SATS)		0.450	0.000	0.000	0.000	0.000

**UNCLASSIFIED**

R-1 Line Item #66

Page 3 of 16

251 of 1922

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603801A: Aviation - Adv Dev	PROJECT B32: ADV MAINT CONCEPTS/EQ			
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #4  Flexible Engine Diagnostics (FEDS)	1.542	3.079	0.400	0.000	0.400
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #5	1.056	0.219	1.290	0.000	1.290

**UNCLASSIFIED**

R-1 Line Item #66

Page 4 of 16

252 of 1922

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603801A: Aviation - Adv Dev	PROJECT B32: ADV MAINT CONCEPTS/EQ				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Shop Equipment Contact Maintenance (SECM)  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base  FY 2011 OCO Plans: FY 2011 OCO						
Program #6  Aviation Ground Power Unit (AGPU)  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base  FY 2011 OCO Plans: FY 2011 OCO		0.000	1.985	1.095	0.000	1.095

**UNCLASSIFIED**

R-1 Line Item #66

Page 5 of 16

253 of 1922

**UNCLASSIFIED**

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603801A: Aviation - Adv Dev		PROJECT B32: ADV MAINT CONCEPTS/EQ		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #7  Aviation Light Utility Mobile Maintenance Cart (ALUMMC)  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base  FY 2011 OCO Plans: FY 2011 OCO		0.000	0.224	0.705	0.000	0.705
Program #8  Unit Maintenance Aerial Recovery Kit (UMARK)  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base  FY 2011 OCO Plans: FY 2011 OCO		0.900	0.604	1.898	0.000	1.898

**UNCLASSIFIED**

R-1 Line Item #66

Page 6 of 16

254 of 1922

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603801A: Aviation - Adv Dev		PROJECT B32: ADV MAINT CONCEPTS/EQ		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #9		1.163	0.000	1.117	0.000	1.117
Aviation - Sets, Kits, Outfits and Tools (A-SKOT)						
FY 2009 Accomplishments:						
FY 2009						
FY 2010 Plans:						
FY 2010						
FY 2011 Base Plans:						
FY 2011 Base						
FY 2011 OCO Plans:						
FY 2011 OCO						
Program #10		0.354	0.146	0.501	0.000	0.501
Management Support Services						
FY 2009 Accomplishments:						
FY 2009						
FY 2010 Plans:						
FY 2010						
FY 2011 Base Plans:						
FY 2011 Base						
FY 2011 OCO Plans:						
FY 2011 OCO						

**UNCLASSIFIED**

R-1 Line Item #66

Page 7 of 16

255 of 1922

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603801A: Aviation - Adv Dev		PROJECT B32: ADV MAINT CONCEPTS/EQ		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #11		0.112	0.273	0.317	0.000	0.317
Technical Engineering Services						
FY 2009 Accomplishments:						
FY 2009						
FY 2010 Plans:						
FY 2010						
FY 2011 Base Plans:						
FY 2011 Base						
FY 2011 OCO Plans:						
FY 2011 OCO						
Program #12		0.236	0.575	0.202	0.000	0.202
RDTE Project Test Support						
FY 2009 Accomplishments:						
FY 2009						
FY 2010 Plans:						
FY 2010						
FY 2011 Base Plans:						
FY 2011 Base						
FY 2011 OCO Plans:						
FY 2011 OCO						

**UNCLASSIFIED**

R-1 Line Item #66

Page 8 of 16

256 of 1922

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Army				<b>DATE:</b> February 2010							
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0603801A: <i>Aviation - Adv Dev</i>		<b>PROJECT</b> B32: <i>ADV MAINT CONCEPTS/EQ</i>							
<b><u>B. Accomplishments/Planned Program (\$ in Millions)</u></b>											
		<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>					
Program #13		0.000	0.237	0.000	0.000	0.000					
Small Business Innovative Research (SBIR)/ Small Business Technology Transfer Programs (STTR)											
<i>FY 2009 Accomplishments:</i> FY 2009											
<i>FY 2010 Plans:</i> FY 2010											
<i>FY 2011 Base Plans:</i> FY 2011 Base											
<i>FY 2011 OCO Plans:</i> FY 2011 OCO											
Accomplishments/Planned Programs Subtotals		7.223	8.492	8.355	0.000	8.355					
<b><u>C. Other Program Funding Summary (\$ in Millions)</u></b>											
<b>Line Item</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• Ord. #1: <i>Aircraft Procurement, Army(APA) SSN AZ3100</i>	95.726	111.110	76.129	65.627	141.756	176.525	117.618	99.565	101.261	Continuing	Continuing
<b><u>D. Acquisition Strategy</u></b>											
This project is an aggregate of advanced maintenance concepts related projects. While the detailed acquisition strategy varies from project to project, the general strategy for each individual project is to complete the development effort through Government test (developmental and operational). Program documentation for milestone decision is prepared, as appropriate, concurrently with the development effort.											

**UNCLASSIFIED**

R-1 Line Item #66

Page 9 of 16

257 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	R-1 ITEM NOMENCLATURE PE 0603801A: <i>Aviation - Adv Dev</i>	PROJECT B32: <i>ADV MAINT CONCEPTS/EQ</i>
<p><b>E. Performance Metrics</b></p> <p>Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.</p>		

UNCLASSIFIED

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army										DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603801A: Aviation - Adv Dev				PROJECT B32: ADV MAINT CONCEPTS/EQ				
Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
HHFE	C/Various	AEC Aberdeen Proving Ground, MD,AMCOM G-4, Redstone A	1.145	0.750		0.830		0.000		0.830	Continuing	Continuing	0
BDAR BLOCK II	C	AMRDEC Redstone Arsenal, AL.	0.230	0.400		0.000		0.000		0.000	Continuing	Continuing	.930
SATS	C	AMCOM Redstone Arsenal, AL; AATD, Ft Eustis, VA.	2.196	0.000		0.000		0.000		0.000	Continuing	Continuing	2.545
FEDS	C/Various	AMRDEC Redstone Arsenal AL; RTTC, Redstone Arsenal, AL.	1.837	3.079		0.400		0.000		0.400	Continuing	Continuing	6.858
SECM	C/Various	TACOM Detroit, MI; ATEC, Alexandria, VA; ARDEC, Picatin	3.653	0.219		1.290		0.000		1.290	Continuing	Continuing	0
ALUMMC	C	AATD Ft. Eustis, VA.	0.000	0.224		0.705		0.000		0.705	Continuing	Continuing	0
AGPU	C/Various	AMDREC Redstone Arsenal, AL;UAH, Huntsville, AL	10.236	1.985		1.095		0.000		1.095	Continuing	Continuing	0

**UNCLASSIFIED**

R-1 Line Item #66

Page 11 of 16

259 of 1922

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Army</b>											<b>DATE:</b> February 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0603801A: <i>Aviation - Adv Dev</i>				<b>PROJECT</b> B32: <i>ADV MAINT CONCEPTS/EQ</i>					
<b>Product Development (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</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>
UMARK	C/Various	AMRDEC Redstone Arsenal, AL; UAH, Huntsville, AL	1.163	0.604		1.898		0.000		1.898	Continuing	Continuing	3.512
A-SKOT	C/Various	RDECOM Ft Monmouth NJ; AMRDEC, Redstone Arsenal, AL; BEL	1.040	0.000		1.117		0.000		1.117	Continuing	Continuing	0
<b>Subtotal</b>			21.500	7.261		7.335		0.000		7.335			13.845
<b>Remarks</b>													
<b>Support (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</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>
Technical Engineering Services	C	AATD Ft Eustis, VA	5.976	0.273		0.317		0.000		0.317	Continuing	Continuing	0
<b>Subtotal</b>			5.976	0.273		0.317		0.000		0.317			0.000
<b>Remarks</b>													
None													

**UNCLASSIFIED**

R-1 Line Item #66

Page 12 of 16

260 of 1922

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010			
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Test and Evaluation (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
RDT&E Project Test Support	C	AEC Aberdeen Proving Ground, MD	0.512	0.575		0.202		0.000		0.202	Continuing	Continuing	0	
Subtotal			0.512	0.575		0.202		0.000		0.202			0.000	
Remarks None														
Management Services (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Management Support Services	C	AGSE Redstone Arsenal, AL; Science Applications Intl C	2.549	0.146		0.501		0.000		0.501	Continuing	Continuing	0	
SBIR/STTR Reductions	C	Nothing entered for Activity and Location. Location could not be determined.	0.000	0.237		0.000		0.000		0.000	Continuing	Continuing	0	
Subtotal			2.549	0.383		0.501		0.000		0.501			0.000	

**UNCLASSIFIED**

R-1 Line Item #66

Page 13 of 16

261 of 1922

**UNCLASSIFIED**

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>					<b>R-1 ITEM NOMENCLATURE</b> PE 0603801A: <i>Aviation - Adv Dev</i>					<b>PROJECT</b> B32: <i>ADV MAINT CONCEPTS/EQ</i>			
<b>Management Services (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</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>
<b>Remarks</b>													
None													
			<b>Total Prior Years Cost</b>	<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			30.537	8.492		8.355		0.000		8.355			13.845
<b>Remarks</b>													

**UNCLASSIFIED**

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army																								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>												R-1 ITEM NOMENCLATURE PE 0603801A: <i>Aviation - Adv Dev</i>												PROJECT B32: <i>ADV MAINT CONCEPTS/EQ</i>			

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	R-1 ITEM NOMENCLATURE PE 0603801A: <i>Aviation - Adv Dev</i>	PROJECT B32: <i>ADV MAINT CONCEPTS/EQ</i>		
Schedule Details				
	Start		End	
Event	Quarter	Year	Quarter	Year
Aviation Light Utility Mobile Maintenance Cart	1	2010	3	2012

UNCLASSIFIED