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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
2040: Research, Development, Test & Evaluation, Army					PE 0603801A: Aviation - Adv Dev							
BA 4: Advanced Component Development & Prototypes (ACD&P)												
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	6.879	8.602	5.018	-	5.018	10.041	8.880	7.880	7.000	Continuing	Continuing
B32: Adv Maint Concepts/Eq	-	6.879	8.602	5.018	-	5.018	10.041	8.880	7.880	7.000	Continuing	Continuing
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
Not applicable for this item												
A. Mission Description and Budget Item Justification												
This Program Element provides advanced development aviation support of programs that include advanced maintenance concepts and equipment. The FY 2014 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 costs, 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: diagnostics/prognostic monitoring systems, Aircraft Clean System (ACS), Aviation Ground Power Unit (AGPU) equipment familiarization software, redesign and incorporation of AGPU modularity capabilities, Aviation Light Utility Mobile Maintenance Cart (ALUMMC), Aviation Vibration Analyzer (AVA), Aviation Intermediate Maintenance Shop Set (AVIM SS),Battle Damage Assessment & Repair (BDAR), Common Aviation Tool System (CATS), Digital Aircraft Weighing Scales II (DAWS II), Hand Held Fire Extinguisher (HHFE), Family of Aviation Lifting Devices (F-ALD), Flexible Engine Diagnostic System (FEDS), Modernized Maintenance Platform (formerly referred to as Aviation B1/B4 Maintenance Stands), Non-Destructive Test Equipment System (NDTE), Pitot Static Test Set (PSTS), Unit Maintenance Aerial Recovery Kit (UMARK) and development support for tools needed to provide maintenance support to modernized/future force aircraft.												

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2040: Research, Development, Test & Evaluation, Army		PE 0603801A: Aviation - Adv Dev			
BA 4: Advanced Component Development & Prototypes (ACD&P)					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	7.218	8.602	8.426	-	8.426
Current President's Budget	6.879	8.602	5.018	-	5.018
Total Adjustments	-0.339	0.000	-3.408	-	-3.408
• Congressional General Reductions	-0.011	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.217	-			
• Adjustments to Budget Years	-	-	-3.408	-	-3.408
• Other Adjustments 1	-0.111	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army									DATE: April 2013			
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			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
B32: Adv Maint Concepts/Eq	-	6.879	8.602	5.018	-	5.018	10.041	8.880	7.880	7.000	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
Not applicable for this item.												
A. Mission Description and Budget Item Justification												
This Project provides advanced development aviation support of programs that include advanced maintenance concepts and equipment. The FY 2014 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 costs, 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: diagnostics/prognostic monitoring systems, Aircraft Clean System (ACS), Aviation Ground Power Unit (AGPU) equipment familiarization software, redesign and incorporation of AGPU modularity capabilities, Aviation Light Utility Mobile Maintenance Cart (ALUMMC), Aviation Vibration Analyzer (AVA), Aviation Intermediate Maintenance Shop Set (AVIM SS),Battle Damage Assessment & Repair (BDAR), Common Aviation Tool System (CATS), Digital Aircraft Weighing Scales II (DAWS II), Hand Held Fire Extinguisher (HHFE), Family of Aviation Lifting Devices (F-ALD), Flexible Engine Diagnostic System (FEDS), Modernized Maintenance Platform (formerly referred to as Aviation B1/B4 maintenance Stands), Non-Destructive Test Equipment System (NDTE), Pitot Static Test Set (PSTS), Unit Maintenance Aerial Recovery Kit (UMARK) and development support for tools needed to provide maintenance support to modernized/future force aircraft.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Aircraft Cleaning System (ACS)									0.000	0.000	0.500	
Description: The ACS will provide aviation maintenance units with a capability to clean external and internal aircraft surfaces and components when in the field and deployed locations.												
FY 2014 Plans: Perform market survey, trade studies, generate Purchase Item Description (PID) and Request For Proposal (RFP), technical review of proposals, source selection, systems performance test demonstration for evaluation, and conduct systems safety evaluation to certify and qualify the ACS for Army aircraft operation.												
Title: Aviation Ground Power Unit (AGPU)									0.000	4.191	1.342	

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
<div>Articles:</div> <div>Description: The AGPU provides the capability to meet Army helicopter servicing requirements into the next decade by providing a modular, diagnostic/prognostic monitoring system with external hydraulic, pneumatic, and AC/DC electrical power to all Modernized Force Aircraft.</div> <div>FY 2013 Plans: Perform AGPU Hudrolic Module redesign to meet requirements of updated CPD, develop and integrate AGPU diagnostic system, and prepare test plans for newly integrated capabilities.</div> <div>FY 2014 Plans: Conduct developmental and operational test of newly integrated capabilities.</div>			0	
<div>Title: Aviation Light Utility Mobile Maintenance Cart (ALUMMC)</div> <div>Articles:</div> <div>Description: ALUMMC will enhance mission performance of current forces by reducing the burden on Army Aviation units currently using TDA and TOE tactical vehicles to support flight line operations and providing a standardized and sustainable vehicle to move personnel and equipment along the flight line.</div> <div>FY 2012 Accomplishments: Developed operational test plans, selected site, purchased prototypes, completed testing and down selected ALUMMC.</div> <div>FY 2013 Plans: Finalizalize product evaluation and operational test plans.</div>		0.872 0	0.546 0	0.000
<div>Title: Aviation Vibration Analyzer (AVA)</div> <div>Description: AVA provides a rugged, portable, and safe means of performing helicopter, one per revolution (1P) maintenance, for both main and tail rotors. Measures, records, and processes vibration and blade position information to diagnose and present measurement, diagnostic, and corrective information to maintenance personnel to correct faults.</div> <div>FY 2014 Plans: Conduct testing on AVA-E prototypes, complete qualification and certification and obtain airworthiness release.</div>		0.000	0.000	0.400
<div>Title: Aviation Intermediate Maintenance Shop Set (AVIM SS)</div> <div>Description: The AVIM Shop Set complex is comprised of ten (10) class 7 shop sets in new or refurbished One Side Expandable (OSE) International Standardization Organization (ISO) Shelters. These shop sets include: Powertrain, Non-Descructive</div>		0.000	0.000	0.300

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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 Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Inspection, Engine, Pneudraulic, Composite, Tool Crib, Production Control/Quality Control, Sheet Metal, Machine Weld and Armament & Electrical Shops.				
FY 2014 Plans: Analyze, identify, and develop hardware to permanently repair the aircraft composite shop set. Develop the required hardware procedures for repairing the composite structures and have the newly identified components tested, qualified and certified.				
Title: Battle Damage Assessment and Repair Kit (BDAR) Description: The BDAR is a transportable and expeditious means to assess combat damage, defer and/or repair Army helicopters in a battlefield environment. FY 2014 Plans: Analyze, identify, and develop hardware to repair aircraft composite. Develop the required hardware procedures for repairing the composite structures.		0.000	0.000	0.300
Title: Common Aviation Tool System (CATS) Articles: Description: CATS is a component of A-SKOT and consists of individual aviation mechanics tool kit containers, aerospace standard tools, foam shadowed drawers and a component listing with picture diagrams for ease of inventory and to minimize foreign object damage to aircraft. CATS provides standardized tools, kits and outfits which meet transformation modularity, flexibility and mobility requirements for repair of rotary wing aircraft during combat, contingency and training operations. FY 2012 Accomplishments: Completed technical review of proposals, source selection, systems performance test demonstration and test plan for evaluation, and conducted systems safety evaluation to certify and qualify the CATS for Army aircraft maintenance operation.		0.301 0	0.000	0.000
Title: Digital Aircraft Weighing Scales (DAWS) II Articles: Description: DAWS II is an electronic/digital weighing scale. It is used to perform weight and balance without leveling the aircraft and produces a computerized DD Form 365 outlining results. FY 2013 Plans: Conduct research into the availability of modern technology, assess the need for system modernization, and complete product evaluation and operational testing.		0.000	0.600 0	0.000
Title: Flexible Engine Diagnostics System (FEDS)		2.182	0.000	0.000

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Articles: 0 Description: FEDS is a Turbo-Shaft Engine Test Stand that verifies flight readiness/safety of engines removed from aircraft for maintenance. This test stand supports the CH-47, AH-64 and UH-60 aviation aircraft. FY 2012 Accomplishments: Completed correction of deficiencies identified during the User and Maintainer Assessment (UMA) Phase I.				
Title: Non-Destructive Test Equipment (NDTE) Articles: 0 Description: NDTE provides Army Aviation Maintenance units with an electronic test instrument to inspect aircraft components and structures without complete disassembly or removal of components from the aircraft. FY 2013 Plans: Begin research and development of Non-Destructive Test Equipment (eddy current, ultrasonic, harmonic bond, and radiography) for modernization and technology advancements. FY 2014 Plans: Continue research and development of Non-Destructive Test Equipment (Eddy Current, ultrasonic, harmonic bond and radiography), purchase samples and conduct testing.		0.000	0.925 0	0.225
Title: Hand Held Fire Extinguisher (HHFE) Articles: 0 Description: The HHFE is being reviewed to find a replacement for the Halon 1301 agent currently fielded on Aviation Rotary Wing aircraft. FY 2012 Accomplishments: Completed testing and evaluation on the replacement Halon 1301 extinguisher and completed documentation for release of the selected HALON 1301 extinguisher. Finalized the development of the HHFE hardware, specification and the technical data package.		0.910 0	0.000	0.000
Title: Unit Maintenance Aerial Recovery Kit (UMARK) Articles: 0 Description: UMARK provides Aviation Support Company and Aviation Maintenance Company units with the ability to quickly rig for transport crash-damaged non-flyable modernized aircraft or aircraft undergoing maintenance for evacuation.		1.510 0	1.100 0	0.600

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: Completed ground development and flight testing for the recovery of crash damaged aircraft.				
FY 2013 Plans: Continue ground and flight testing verification				
FY 2014 Plans: Finalize UMARK Test Data Package, procedures, and manuals.				
Title: Management Support Services Articles: Description: Management Support Services in Support of the Aviation Ground Support Equipment Product Management Office.		0.520 0	0.400 0	0.258
FY 2012 Accomplishments: Management Support Services				
FY 2013 Plans: Management Support Services.				
FY 2014 Plans: Management Support Services				
Title: RDTE Project Test Support Articles: Description: RDTE Project Test Support for the Aviation Ground Support Equipment Product Management Office.		0.384 0	0.430 0	0.300
FY 2012 Accomplishments: RDTE Project Test Support				
FY 2013 Plans: RDTE Project Test Support.				
FY 2014 Plans: RDTE Project Test Support				
Title: Technical Engineering Services Articles:		0.200 0	0.410 0	0.793

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Description: Technical Engineering Services in support of Aviation Ground Support Equipment Product Management Office. FY 2012 Accomplishments: Technical Engineering Services. FY 2013 Plans: Technical Engineering Services. FY 2014 Plans: Technical Engineering Services.			
Accomplishments/Planned Programs Subtotals	6.879	8.602	5.018

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• Aviation Ground Support Equipment: <i>Aviation Ground Support Equipment, SSN AZ3520</i>	114.517	82.511	65.397		65.397	56.445	57.984	51.088	59.779	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
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.											
E. Performance Metrics											
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.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>						R-1 ITEM NOMENCLATURE PE 0603801A: <i>Aviation - Adv Dev</i>						PROJECT B32: <i>Adv Maint Concepts/Eq</i>			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Support Services	Various	PM AGSE:RSA, AL	0.629	0.520	Mar 2012	0.400	Feb 2013	0.258	Jan 2014	-		0.258	Continuing	Continuing	Continuing
Subtotal			0.629	0.520		0.400		0.258		0.000		0.258			
Remarks None															
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ACS	Various	AATD, Ft. Eustis, VA, Aberdeen Test Center (ATC);Aberdeen Proving Ground MD.	0.000	-		-		0.500	Jan 2014	-		0.500	Continuing	Continuing	Continuing
AGPU	Various	RTTC, Redstone Arsenal (RSA), AL; AMRDEC, RSA, AL; Aberdeen Test Center (ATC);Aberdeen Proving Ground, MD	11.351	-		4.191	Feb 2013	1.342	Mar 2014	-		1.342	0.000	16.884	0.000
ALUMMC	Various	ATTD, Ft. Eustis, VA, Aberdeen Test Center (ATC);Aberdeen Proving Ground MD	0.000	0.872	Mar 2012	0.546	Jan 2013	-		-		-	0.000	1.418	0.000
AVA	Various	AMRDEC, (RSA), AL, Aberdeen Test Center (ATC);Aberdeen Proving Ground	0.000	-		-		0.400	Jan 2014	-		0.400	0.000	0.400	0.000

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Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AVIM SS	Various	AMRDEC, (RSA), AL, Aberdeen Test Center (ATC);Aberdeen, MD	0.000	-		-		0.300	Feb 2014	-		0.300	Continuing	Continuing	Continuing
BDAR	Various	AMRDEC, (RSA), AL, Aberdeen Test Center (ATC);Aberdeen Proving Ground, MD	0.656	-		-		0.300	Jan 2014	-		0.300	Continuing	Continuing	Continuing
CATS (A-SKOT)	Various	AMRDEC, (RSA), AL, Aberdeen Test Center (ATC);Aberdeen Proving Ground, MD.	0.475	0.301	May 2012	-		-		-		-	0.000	0.776	0.000
FEDS	Various	AMRDEC, (RSA), AL, Aberdeen Test Center (ATC);Aberdeen Proving Ground, MD	9.005	2.182	Jun 2012	-		-		-		-	0.000	11.187	0.000
DAWS II	Various	AMRDEC (RSA), AL, Aberdeen Test Center;Aberdeen Proving Ground	0.000	-		0.600	Feb 2013	-		-		-	0.000	0.600	0.000
HHFE	Various	AMRDEC, (RSA), AL, Aberdeen Test Center (ATC);Aberdeen Proving Ground, MD	5.687	0.910	Apr 2012	-		-		-		-	0.000	6.597	0.000
NDTE	Various	AMRDEC, (RSA), AL, Aberdeen Test Center (ATC);Aberdeen Proving Ground, MD.	0.404	-		0.925	Feb 2013	0.225	Mar 2014	-		0.225	Continuing	Continuing	Continuing

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Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract
UMARK	Various	AMRDEC, (RSA), AL, Aberdeen Test Center (ATC);Aberdeen Proving Ground, MD	3.820	1.510	Jul 2012	1.100	Jan 2013	0.600	Feb 2014	-		0.600		Continuing	Continuing	Continuing
Subtotal			31.398	5.775		7.362		3.667		0.000		3.667				

Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract
Technical Engineering Services	RO	AATD,:Ft. Eustis, VA	6.776	0.200	Jun 2012	0.410	Jan 2013	0.437	Feb 2014	-		0.437		Continuing	Continuing	Continuing
Technical Engineering Services	RO	AED:Redstone Arsenal, AL	0.000	-		-		0.356	Jan 2014	-		0.356		Continuing	Continuing	Continuing
Subtotal			6.776	0.200		0.410		0.793		0.000		0.793				

Remarks None																
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Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract
RDTE Project Test Support	MIPR	ATC,:Aberdeen Proving Ground, MD	1.234	0.384	Jun 2012	0.430	Feb 2013	0.300	Jan 2014	-		0.300		Continuing	Continuing	Continuing
Subtotal			1.234	0.384		0.430		0.300		0.000		0.300				

Remarks None																
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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army										DATE: April 2013			
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	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	40.037	6.879		8.602		5.018		0.000		5.018			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army			DATE: April 2013		
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	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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
Aircraft Cleaning System (ACS)																												
Aviation Ground Power Unit (AGPU)																												
Aviation Ground Power Unit (AGPU) Next Generation																												
Aviation Light Utility Mobile Maintenance Cart																												
Aviation Vibration Analyzer (AVA)																												
Family Aviation Lifting Device																												
Battle Damage Assessment and Repair Kit																												
Aviation Intermediate Maintenance Shop Set (AVIM SS)																												
Common Aviation Tool System (CATS) - (Aviation Sets, Kits, Outfits and Tools)																												
Digital Flexible Engine Diagnostic System																												
Non-Destructive Test Equipment																												
Pitot Static Test Set (PSTS)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army			DATE: April 2013
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Aircraft Cleaning System (ACS)	2	2014	4	2015
Aviation Ground Power Unit (AGPU)	3	2013	4	2014
Aviation Ground Power Unit (AGPU) Next Generation	3	2015	4	2016
Aviation Light Utility Mobile Maintenance Cart	2	2012	3	2014
Aviation Vibration Analyzer (AVA)	2	2014	4	2014
Family Aviation Lifting Device	2	2015	4	2016
Battle Damage Assessment and Repair Kit	2	2014	4	2015
Aviation Intermediate Maintenance Shop Set (AVIM SS)	2	2014	4	2015
Common Aviation Tool System (CATS) - (Aviation Sets, Kits, Outfits and Tools)	3	2012	1	2013
Digital Flexible Engine Diagnostic System	3	2016	4	2017
Non-Destructive Test Equipment	2	2013	4	2015
Pitot Static Test Set (PSTS)	2	2015	4	2016