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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0604258A: <i>TARGET SYSTEMS DEVELOPMENT</i>
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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	-	10.973	14.034	13.488	-	13.488	12.055	11.898	16.359	10.041	Continuing	Continuing
238: <i>Aerial Targets</i>	-	7.424	10.052	10.031	-	10.031	8.678	8.488	8.628	5.999	Continuing	Continuing
459: <i>Ground Targets</i>	-	3.549	3.982	3.457	-	3.457	3.377	3.410	7.731	4.042	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

A. Mission Description and Budget Item Justification

This program funds aerial and ground target hardware and software development, maintenance, and upgrades. The overall objective is to ensure validation of weapon system accuracy and reliability by developing aerial and ground targets essential for test and evaluation (T&E). These targets are economical and expendable, remotely controlled or stationary, and often destroyed in use. The Army is the Tri-Service lead under Reliance for providing rotary wing, mobile ground, towed, and designated targets for T&E. The Army executes development of some Service-peculiar target requirements in support of quality assurance, lot acceptance, and training and continues development of Service-peculiar and on-going target materiel upgrades to maintain continuity with current weapons technology and trends in modern and evolving Army weapons.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	11.229	14.034	13.488	-	13.488
Current President's Budget	10.973	14.034	13.488	-	13.488
Total Adjustments	-0.256	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.256	-			

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support					R-1 ITEM NOMENCLATURE PE 0604258A: TARGET SYSTEMS DEVELOPMENT				PROJECT 238: Aerial Targets			
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
238: Aerial Targets	-	7.424	10.052	10.031	-	10.031	8.678	8.488	8.628	5.999	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												
A. Mission Description and Budget Item Justification												
Aerial Targets support Army Transformation by providing for development, acquisition, operation, storage, update, and maintenance of realistic surrogate or acquired threat high-performance, multi-spectral aerial targets and development of virtual target computer models of aerial targets. Modern weapons require test, evaluation, and training using threat representative aerial targets to assess their effectiveness on the battlefield. This program encompasses a family of rotary and fixed-wing targets; full-scale, miniature, and subscale targets; virtual targets; ancillary devices; and their control systems. These products are required to adequately stress weapon systems undergoing test and evaluation (T&E). In order to stress systems during T&E, aerial targets must have flight characteristics, signatures, and other performance factors that emulate the modern threat. This program includes long-range planning to determine future target needs and development of coordinated requirement documents; the management of target research, development, test and evaluation process; execution of the validation process to ensure that surrogate targets adequately represent the threat; development and acquisition of surrogate and acquired targets; and continuing maintenance, storage, and development/enhancement/update via engineering services of the developed and acquired threat targets to ensure availability for the T&E customer. The Army is the Reliance lead for rotary wing targets and towed target developments and the Tri-Service lead for procurement and enhancement of the MQM-107 fixed wing target.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Rotary Wing Targets. Description: Continues sustainment phase contract activities for the Rotary Wing Targets, including updates for obsolescence, maintenance, and safety to support Test & Evaluation (T&E) programs. FY 2012 Accomplishments: Continued EMD for the Rotary Wing Targets program to provide flight operations of Department of Defense's (DoD) current fleet of helicopters. Rotary Wing Targets also provided updates for obsolescence, maintenance, and safety to support T&E programs such as Navy Standard Missile (SM-6), Navy LHA air defense upgrades, and Army and Navy Aircraft Survivability development projects. FY 2013 Plans:									0.484	0.468	0.000	
									Articles: 0	0		

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0604258A: TARGET SYSTEMS DEVELOPMENT	PROJECT 238: Aerial Targets		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Continues EMD for the Rotary Wing Targets program to provide flight operations of DoD's current fleet of helicopters. Rotary Wing Targets also provides updates for obsolescence, maintenance, and safety to support T&E programs such as Navy Standard Missile (SM-6), Navy LHA air defense upgrades, and Army and Navy Aircraft Survivability development projects.				
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the High Speed Aerial Target. Articles: Description: Continue EMD phase contract activities for the High Speed Aerial Target (HSAT, MQM-107) equipment. FY 2012 Accomplishments: Continued EMD for the aging High Speed Aerial Target (HSAT, MQM-107) that provided a realistic aerial target capable of simulating the performance of enemy aircraft to aid in the reseach, development, test, and evaluation of weapons systems and to aid in training operational units employing producton missile systems. Funds overcame obsolescence for spare and repair parts, and maintained equipment and documentation for safe operations supporting T&E programs such as Patriot, Stinger, Joint Land Attack Cruise Missile Defense Elevated Netted Sensors (JLENS), MEADS, and classified programs for Army and Tri-Service customers. FY 2013 Plans: Continues EMD for the aging High Speed Aerial Target (HSAT, MQM-107) that provides a realistic aerial target capable of simulating the performance of enemy aircraft to aid in the reseach, development, test, and evaluation of weapons systems and to aid in training operational units employing producton missile systems. Funds are required to overcome obsolescence for spare and repair parts, and to maintain equipment and documentation for safe operations supporting T&E programs such as Patriot, Stinger, and classified programs for Army and Tri-Service customers. FY 2014 Plans: Will continue EMD for the aging High Speed Aerial Target (HSAT, MQM-107) that will provide a realistic aerial target capable of simulating the performance of enemy aircraft to aid in the reseach, development, test, and evaluation of weapons systems and to aid in training operational units employing producton missile systems. Funds will be required to overcome obsolescence for spare and repair parts, and to maintain equipment and documentation for safe operations supporting T&E programs such as Patriot, Stinger, JLENS, MEADS, and classified programs for Army and Tri-Service customers.		1.263 0	1.357 0	1.386
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Target Tracking Control Systems (TTCS) and aerial target control components. Articles: Description: Continue EMD phase contract activities for the TTCS and aerial target control components. FY 2012 Accomplishments:		0.597 0	0.620 0	0.649

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2012	FY 2013	FY 2014
Continued EMD for the TTCS and aerial target control components. Provided design modifications to solve obsolescence problems and updated software to correct anomalies. Provided software performance enhancement modifications to support T&E missions, improved test sets and developed upgraded operator displays. Updated documentation of the system and operations and maintenance manuals. Supported operational repair and maintenance with engineering analysis of target control system performance. Provided support to programs such as Patriot, MEADS, and others. FY 2013 Plans: Continues EMD for the TTCS and aerial target control components. Provides for design modifications to solve obsolescence problems and updates software to correct anomalies. Provides for software performance enhancement modifications to support T&E missions, improves test sets and develops upgraded operator displays. Updates documentation of the system and operations and maintenance manuals. Supports operational repair and maintenance with engineering analysis of target control system performance. Provides support to programs such as Patriot, MEADS, and others. FY 2014 Plans: Will continue EMD for the TTCS and aerial target control components. Will provide for design modifications to solve obsolescence problems and updates software to correct anomalies. Will provide for software performance enhancement modifications to support T&E missions, improve test sets and develop upgraded operator displays. Will update documentation of the system and operations and maintenance manuals. Will support operational repair and maintenance with engineering analysis of target control system performance. This will provide support to programs such as Patriot, MEADS, and others.					
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Towed Targets/Ancillary devices. Articles: Description: Continue EMD phase contract activities for the Towed Targets/Ancillary devices. FY 2012 Accomplishments: Continued EMD for the Towed Targets/Ancillary devices. Continued development, enhancement, maintenance, and storage for all RDT&E aerial targets, towed targets, and ancillary devices. Continued development and testing of Low Cost Towed target systems (Cruise Missile Tow Target, Reduced Radar Tow Target, and the Special Low Altitude Tow Target) emulating current threats at a very low cost to Patriot, JLENS and classified customers. Signature modification and performance enhancement efforts for these targets is ongoing. Investigated/tested other cost-saving towed systems (Glide-Tow, Height-Keeping-Tow, and Tow Test Bed) for Air Defense Weapons System customers. FY 2013 Plans: Continues EMD for the Towed Targets/Ancillary devices. Continues development, enhancement, maintenance, and storage for all RDT&E aerial targets, towed targets, and ancillary devices. Continues development and testing of Low Cost Towed target systems (Cruise Missile Tow Target, Reduced Radar Tow Target, and the Special Low Altitude Tow Target) emulating current			0.723 0	0.783 0	1.119

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
threats at a very low cost to Patriot, JLENS and classified customers. Signature modification and performance enhancement efforts for these targets is ongoing. Investigates/tests other cost-saving towed systems (Glide-Tow, Height-Keeping-Tow, and Tow Test Bed) for Air Defense Weapons System customers. FY 2014 Plans: Will continue EMD for the Towed Targets/Ancillary devices. Will continue development, enhancement, maintenance, and storage for all RDT&E aerial targets, towed targets, and ancillary devices. Will continue development and testing of Low Cost Towed target systems (Cruise Missile Tow Target, Reduced Radar Tow Target, and the Special Low Altitude Tow Target) emulating current threats at a very low cost to Patriot, JLENS and classified customers. Signature modification and performance enhancement efforts for these targets is ongoing. Will investigate/test other cost-saving towed systems (Glide-Tow, Height-Keeping-Tow, and Tow Test Bed) for Air Defense Weapons System customers.				
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Integrated Avionics Package (IAP). Articles: Description: Continue EMD phase contract activities for the IAP. FY 2012 Accomplishments: Continued EMD for the IAP. Designed component changes to correct for obsolescence. Updated software to correct issues and to modify the software to support specific test and evaluation mission requirements. IAP provided the avionics for aerial targets to support multiple mission requirements for programs such as Patriot and MEADS. FY 2013 Plans: Continues EMD for the IAP which provides the avionics for aerial targets to support multiple mission requirements for programs such as Patriot, and MEADS. Designs component changes to correct for obsolescence. Updates software to correct issues and to modify the software to support specific test and evaluation mission requirements. FY 2014 Plans: Will continue EMD for the IAP which provides the avionics for aerial targets to support multiple mission requirements for programs such as Patriot, and MEADS. Will design component changes to correct for obsolescence. Will update software to correct issues and to modify the software to support specific test and evaluation mission requirements.		0.317 0	0.258 0	0.271
Title: Engineering and Manufacturing Development (EMD) phase contract activity for Aerial Virtual Targets. Articles: Description: Continue EMD phase contract activities for Aerial Virtual Targets. FY 2012 Accomplishments:		0.911 0	1.031 0	1.098

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Continued EMD for Aerial Virtual Targets for evolving Army and DoD simulation standards and evolving implementation techniques; focused on simulation target models of airplanes, helicopters, missiles, unmanned aerial vehicles, and aerial targets in commonly used formats to support visualization, infrared analysis, and radar analysis simulations; supported verification and validation of models, and provided archiving and distribution of simulation target models to simulation developers throughout the Army and DoD T&E communities. Simulation target models are employed to facilitate simulations for developmental testing (DT) and operational testing (OT) test planning, test rehearsal, post-test analysis, hardware-in-the-loop testing, and execution of test events that are too costly or difficult to be conducted under actual field conditions. These models were being used by multiple DoD agencies and multiple weapon systems such as Close Combat Weapon System (CCWS) and Lower Tier Program offices. FY 2013 Plans: Continues EMD for Aerial Virtual Targets for evolving Army and DoD simulation standards and evolving implementation techniques; focusse on simulation target models of airplanes, helicopters, missiles, unmanned aerial vehicles, and aerial targets in commonly used formats to support visualization, infrared analysis, and radar analysis simulations; supports verification and validation of models, and provides archiving and distribution of simulation target models to simulation developers throughout the Army and DoD T&E communities. Simulation target models are employed to facilitate simulations for developmental testing (DT) and operational testing (OT) test planning, test rehearsal, post-test analysis, hardware-in-the-loop testing, and execution of test events that are too costly or difficult to be conducted under actual field conditions. These models are being used by multiple DoD agencies and multiple weapon systems such as Close Combat Weapon System (CCWS) and Lower Tier Program offices. FY 2014 Plans: Will continue EMD for Aerial Virtual Targets for evolving Army and DoD simulation standards and evolving implementation techniques; will focus on simulation target models of airplanes, helicopters, missiles, unmanned aerial vehicles, and aerial targets in commonly used formats to support visualization, infrared analysis, and radar analysis simulations; will support verification and validation of models, and provides archiving and distribution of simulation target models to simulation developers throughout the Army and DoD T&E communities. Simulation target models are employed to facilitate simulations for developmental testing (DT) and operational testing (OT) test planning, test rehearsal, post-test analysis, hardware-in-the-loop testing, and execution of test events that are too costly or difficult to be conducted under actual field conditions. These models will be used by multiple DoD agencies and multiple weapon systems such as Close Combat Weapon System (CCWS) and Lower Tier Program offices.				
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Army Ground Aerial Target Control System (AGATCS). Articles: Description: EMD phase contract activities for the Army Ground Aerial Target Control System (AGATCS). which will support a modern current technology target control system for control of both aerial and ground targets.		2.567 0	4.962 0	4.928

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: Continued EMD for the AGATCS which provided a modern current technology target control system for control of both aerial and ground targets. The system incorporated software for control of existing targets and provisions for control of future target systems. Replaced the existing aerial target control TTCS and several different ground target control systems that became obsolete and non-supportable with a Department of Defense Information Assurance Certification and Accreditation Process (DIACAP) compliant control system. Provided control system components within the aerial and ground targets to be controlled by the AGATCS. Provided support to programs such as Patriot, MEADS, E-IBCT, Apache, and others.				
FY 2013 Plans: Continues EMD for the AGATCS which provides a modern current technology target control system for control of both aerial and ground targets. The system incorporates software for control of existing targets and provisions for control of future target systems. Replaces the existing aerial target control TTCS and several different ground target control systems that becomes obsolete and non-supportable with a DIACAP compliant control system. Provides control system components within the aerial and ground targets to be controlled by the AGATCS. Provides support to programs such as Patriot, MEADS, E-IBCT, Apache, and others.				
FY 2014 Plans: Will continue EMD for the AGATCS which will provide a modern current technology target control system for control of both aerial and ground targets. The system will incorporate software for control of existing targets and will have provisions for control of future target systems. Will replace the existing aerial target control TTCS and several different ground target control systems that have become or will soon become obsolete and non-supportable with a DIACAP compliant control system. Will provide control system components within the aerial and ground targets to be controlled by the AGATCS. This will provide support to programs such as Patriot, MEADS, E-IBCT, Apache, and others.				
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Unmanned Aerial System - Target (UAS-T). Articles: Description: Continue EMD phase contract activities for the UAS-T to provide threat representative support for test and experimentation missions.		0.562 0	0.573 0	0.580
FY 2012 Accomplishments: Continued EMD for the UAS-T to operate and maintain a generic, tactical class, unmanned aircraft system target to support a wide variety of test requirements as well as to provide threat representative support for test and experimentation missions including Counter Rockets, Artillery and Mortars (C-RAM), Black Dart 2012, missile enhancements and Littoral Combat Ship testing. Funds enabled identification and correction of system anomalies identified during operations. Provided for the demonstration flights of production air vehicles to verify the performance of the production equipment. Provided limited engineering capability to address				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
<p>minor enhancements to the basic target system identified during operations. Provided for the updating of the system drawing package and Operation and Maintenance manual to incorporate modifications made to the system.</p> <p>FY 2013 Plans: Continues EMD for the UAS-T to operate and maintain a generic, tactical class, unmanned aircraft system target to support a wide variety of test requirements as well as to provide threat representative support for test and experimentation missions including Counter Rockets, Artillery and Mortars (C-RAM), Black Dart 2013, missile enhancements and Littoral Combat Ship testing. Funds enable identification and correction of system anomalies identified during operations. Provides for the demonstration flights of production air vehicles to verify the performance of the production equipment. Provides limited engineering capability to address minor enhancements to the basic target system identified during operations. Provides for the updating of the system drawing package and Operation and Maintenance manual to incorporate modifications made to the system.</p> <p>FY 2014 Plans: Will continue EMD for the UAS-T to operate and maintain a generic, tactical class unmanned aircraft system target to support a wide variety of test requirements by providing generic threat representative support for test and experimentation missions. Projects to be supported include the Counter Rockets, Artillery and Mortars (C-RAM) project, Stinger proximity fuse development and testing, other missile system upgrade project, JIAMDO sponsored Black Dart 2014, Littoral Combat Ship, and a variety of research and development efforts. Funds will enable the identification and correction of system anomalies identified during operations and the flight demonstration of system corrections. Funds will provide for limited engineering capability to address minor enhancements to the basic target system to meet shortcomings identified during operations. Funds will also provide for updating of the system drawing package and systems documents to incorporate modifications made to the system.</p>			
Accomplishments/Planned Programs Subtotals		7.424	10.052
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
N/A			
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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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
459: Ground Targets	-	3.549	3.982	3.457	-	3.457	3.377	3.410	7.731	4.042	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												
A. Mission Description and Budget Item Justification												
This program funds Army efforts to support test and evaluation (T&E) of advanced weapon systems and supports Army Transformation by developing surrogates, acquiring foreign equipment and developing virtual target computer models of ground vehicle targets. These products are required to adequately stress weapon systems undergoing T&E. This tasking includes long-range planning to determine future target needs and development of coordinated requirement documents; the centralized management of the ground target research, development, test and evaluation processes; execution of the validation process; acquisition of foreign equipment; and continuing maintenance, storage, and development/enhancement/update via engineering services of developed and acquired targets to ensure availability for T&E customers. This program also manages use of current assets and operates centralized spare parts program. The US Army is the Tri-Service lead for providing mobile ground targets for T&E.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Title: Mobile Ground Target Operations										2.553	2.798	2.755
										Articles: 0	0	
Description: Mobile Ground Target Operations to provide oversight of five Primary Operating Centers to include operation, storage, maintenance, repair, safety and configuration management. Efforts support users such as Brigade Modernization Command (BMC), Apache Block III, Guided Multiple Launch Rocket System (GMLRS),PM Robotic Unmanned Sensor (PM RUS), Small Diameter Bomb (SDB II), PM Unmanned Aircraft Systems (PM UAS) and others.												
FY 2012 Accomplishments: Continued to fund the Mobile Ground Target Operations to provide oversight of five Primary Operating Centers to include operation, storage, maintenance, repair, safety and configuration management for 138 active and 171 inactive Foreign Mobile Ground Target Vehicles, and acquisition of new material and spare parts. Efforts supported users such as Brigade Modernization Command (BMC), Apache Block III, Guided Multiple Launch Rocket System (GMLRS),PM Robotic Unmanned Sensor (PM RUS), Small Diameter Bomb (SDB II), PM Unmanned Aircraft Systems (PM UAS) and others.												
FY 2013 Plans: Mobile Ground Target Operations will provide oversight of five Primary Operating Centers to include operations, storage, maintenance, repair, safety and configuration management for 105 active and 205 inactive Foreign Mobile Ground Target												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Vehicles, and acquisition of new material and spare parts. Efforts support users such as ATEC, Apache Block-III, GMLRS, Brigade Modernization Command, KIOWA, Ground Combat Vehicle, Shadow and others.				
FY 2014 Plans: Mobile Ground Target Operations provides oversight of five Primary Operating Centers to include operations, storage, maintenance, repair, safety and configuration management for 105 active and 205 inactive Foreign Mobile Ground Target Vehicles, and acquisition of new material and spare parts. Efforts support users such as ATEC, Apache Block-III, GMLRS, Brigade Modernization Command, KIOWA, Ground Combat Vehicle, Shadow and others.				
Title: Mobile Ground Target Hardware Articles: Description: Mobile Ground Targets provides threat fleet with up to date threat representative ground targets that emulate the visual, infrared, radio frequency and acoustic signatures. These ground targets include: 1) air defense systems with emitters 2) main battle tanks; 3) infantry fighting vehicles, 4) armored personnel carriers, 5) Decoys and 6) insurgent representation to adequately stress weapon sensors and provide realistic maneuvers, and communications. Provides targets for multiple customers' DT & OT events to include ATEC, Apache Block-III, GMLRS, Brigade Modernization Command, KIOWA, Ground Combat Vehicle, Shadow and others. FY 2013 Plans: Mobile Ground Targets provides threat fleet with up to date threat representative ground targets that emulate the visual, infrared, radio frequency and acoustic signatures. These ground targets include: 1) air defense systems with emitters 2) main battle tanks; 3) infantry fighting vehicles, 4) armored personnel carriers, 5) Decoys and 6) insurgent representation to adequately stress weapon sensors and provide realistic maneuvers, and communications. Provides targets for multiple customers' DT & OT events to include ATEC, Apache Block-III, GMLRS, Brigade Modernization Command, KIOWA, Ground Combat Vehicle, Shadow and others.		0.000	0.456 0	0.000
Title: Ground Virtual Targets Articles: Description: Government System Test and Evaluation to support the research and development of Ground Virtual Targets. FY 2012 Accomplishments: Continued Government System Test and Evaluation to fund the research and development of Ground Virtual Targets for evolving Army and DoD simulation standards and implementation techniques. Focused on simulation target models of wheeled and tracked ground vehicles in commonly used model formats; developed simulation target models visualization simulations, infrared (IR) analysis simulations, and radio frequency (RF) analysis simulations; supported verification and validation of models,		0.739 0	0.728 0	0.702

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2012	FY 2013	FY 2014
and provides archiving and distribution of simulation target models to simulation developers throughout the Army and DoD T&E communities. Simulation target models were employed to facilitate simulations for both developmental testing (DT) and operational testing (OT); Virtual Targets support test planning, test rehearsal, post-test analysis, hardware-in-the-loop testing, and execution of test events that are too costly or difficult to be conducted under actual field conditions. These models were used by multiple DoD agencies and multiple weapon systems such as the Joint Air to Ground Missile (JAGM) and Longbow Hellfire offices.					
FY 2013 Plans: Continue Government System Test and Evaluation to fund the research and development of Ground Virtual Targets for evolving Army and DoD simulation standards and implementation techniques. Focus on simulation target models of wheeled and tracked ground vehicles in commonly used model formats; develop simulation target models visualization simulations, infrared (IR) analysis simulations, and radio frequency (RF) analysis simulations; support verification and validation of models, and provide archiving and distribution of simulation target models to simulation developers throughout the Army and DoD T&E communities. Simulation target models are employed to facilitate simulations for both developmental testing (DT) and operational testing (OT); Virtual Targets support test planning, test rehearsal, post-test analysis, hardware-in-the-loop testing, and execution of test events that are too costly or difficult to be conducted under actual field conditions. These models are used by multiple DoD agencies and multiple weapon systems such as the Joint Air to Ground Missile (JAGM) and Longbow Hellfire offices.					
FY 2014 Plans: Will continue Government System Test and Evaluation to fund the research and development of Ground Virtual Targets for evolving Army and DoD simulation standards and implementation techniques. Will focus on simulation target models of wheeled and tracked ground vehicles in commonly used model formats; will develop simulation target models visualization simulations, infrared (IR) analysis simulations, and radio frequency (RF) analysis simulations; will support verification and validation of models, and will provide archiving and distribution of simulation target models to simulation developers throughout the Army and DoD T&E communities. Simulation target models will be employed to facilitate simulations for both developmental testing (DT) and operational testing (OT); Virtual Targets support test planning, test rehearsal, post-test analysis, hardware-in-the-loop testing, and execution of test events that are too costly or difficult to be conducted under actual field conditions. These models will be used by multiple DoD agencies and multiple weapon systems such as the Joint Air to Ground Missile (JAGM) and Longbow Hellfire offices.					
Title: Operational Threat Vehicle Company			0.257	0.000	0.000
Articles:			0		
Description: To fund the acquisition and fielding of fully mission capable targets (T-72 Main Battle Tanks, BMP-2 Infantry Fighting Vehicles, and BTR-80 Armored Personnel Carriers).					
FY 2012 Accomplishments:					

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 6: <i>RDT&E Management Support</i>		R-1 ITEM NOMENCLATURE PE 0604258A: <i>TARGET SYSTEMS DEVELOPMENT</i>	PROJECT 459: <i>Ground Targets</i>
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
Completed the effort to fund certification and fielding of fully mission capable targets (T-72 Main Battle Tanks, BMP-2 Infantry Fighting Vehicles, and BTR-80 Armored Personnel Carriers) to meet emerging requirements for threat representative missions. Provided realistic threat capable targets for use in force-on-force exercises to allow Blue Forces to think and adapt to the changing battle dynamic as it unfolds.			
Accomplishments/Planned Programs Subtotals		3.549	3.982
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy N/A			
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.			