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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2012 Army	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605301A: <i>ARMY KWAJALEIN ATOLL</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	157.391	163.788	145.606	-	145.606	149.178	144.424	141.710	141.998	Continuing	Continuing
614: <i>ARMY KWAJALEIN ATOLL</i>	157.391	163.788	145.606	-	145.606	149.178	144.424	141.710	141.998	Continuing	Continuing

**Note**

Funding realigned (8930) to PE 0604759A - Major T&E Investment

**A. Mission Description and Budget Item Justification**

The U.S. Army Kwajalein Atoll/Ronald Reagan Ballistic Missile Defense Test Site (USAKA/RTS), located in the Republic of the Marshall Islands, is a remote, secure activity of the Major Range and Test Facility Base (MRTFB). Its function is to support test and evaluation of major Army and DoD acquisition programs and to provide space operations (surveillance and object identification) in support of U.S. Strategic Command (USSTRATCOM) and National Aeronautics and Space Administration (NASA) scientific and space programs. Programs supported include Army missile defense, Air Force and Navy Intercontinental Ballistic Missile (ICBM) developmental and operational tests; Army, Air Force and Defense Advanced Research Projects Agency (DARPA) hypersonics developmental tests; Missile Defense Agency (MDA) demonstration/validation tests; , USSTRATCOM space situational awareness requirements (inc contributions to the U.S. Space Surveillance Network); and NASA Space Shuttle and orbital debris experiments. USAKA/RTS is a government-managed/contractor-operated (GMCO) site and is dependent upon its associated support contractors for operations and maintenance (O&M). Program funds contractors to accomplish O&M for both the RTS instrumentation suite and installation/base operations and provides mission essential bandwidth via a fiber optics cable system. Funding is required to maintain O&M support, while accepting moderate risk of continued degradation of USAKA/RTS infrastructure (housing, offices, and facilities), higher future repair costs, and reduced logistical support capability. The instrumentation suite consists of a number of sophisticated, one-of-a-kind, radar, optical, telemetry, command/control/communications, safety, and data reduction systems. These systems include the four unique radars of the Kiernan Reentry Measurement Site (KREMS); Super Recording Automatic Digital Optical Tracker (SRADOT) long range video-metric tracking systems; high density data recorders for high data-rate telemetry collected by nine antennas; an underwater acoustic impact location system; and data analysis/reduction hardware/software. The Advanced Research Project Agency (ARPA) Long-Range Tracking and Instrumentation Radar (ALTAIR), and the Target Resolution Discrimination Experiment (TRADEX) radars located at USAKA/RTS, are two of only three radars world-wide that have deep-space tracking capability. The Millimeter Wave Radar (MMW) is the most powerful imaging radar in the world. Funding enables weapon system assessment of operational effectiveness and suitability for the Army, Air Force, Navy and MDA, which all have programs planned that have significant test and data gathering requirements at USAKA/RTS. This test data cannot be obtained except through the use of technical facilities available on and in the vicinity of USAKA/RTS. Program supports Army's PATRIOT air defense system and the Advanced Hypersonic Weapon technology development program; Air Force's Minuteman III ICBM and the Space and Missile Center's associated programs; MDA's Ballistic Missile Defense System, Flexible Target Family (FTF), and Family of Systems; NASA's Space Transportation System (STS), Small Expendable Deployer System and Orbital Debris Measurement Programs.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army				DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE				
2040: Research, Development, Test & Evaluation, Army		PE 0605301A: ARMY KWAJALEIN ATOLL				
BA 6: RDT&E Management Support						
B. Program Change Summary (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget		162.662	163.788	157.181	-	157.181
Current President's Budget		157.391	163.788	145.606	-	145.606
Total Adjustments		-5.271	-	-11.575	-	-11.575
• Congressional General Reductions			-			
• Congressional Directed Reductions			-			
• Congressional Rescissions		-	-			
• Congressional Adds			-			
• Congressional Directed Transfers			-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-5.271	-			
• Adjustments to Budget Years		-	-	-11.575	-	-11.575

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support				R-1 ITEM NOMENCLATURE PE 0605301A: ARMY KWAJALEIN ATOLL				PROJECT 614: ARMY KWAJALEIN ATOLL			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
614: ARMY KWAJALEIN ATOLL	157.391	163.788	145.606	-	145.606	149.178	144.424	141.710	141.998	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
<p>The U.S. Army Kwajalein Atoll/Ronald Reagan Ballistic Missile Defense Test Site (USAKA/RTS), located in the Republic of the Marshall Islands, is a remote, secure activity of the Major Range and Test Facility Base (MRTFB). Its function is to support test and evaluation of major Army and DoD acquisition programs and to provide space operations (surveillance and object identification) in support of U.S. Strategic Command (USSTRATCOM) and National Aeronautics and Space Administration (NASA) scientific and space programs. Programs supported include Army missile defense, Air Force and Navy Intercontinental Ballistic Missile (ICBM) developmental and operational tests; Army, Air Force and Defense Advanced Research Projects Agency (DARPA) hypersonics developmental tests; Missile Defense Agency (MDA) demonstration/validation tests; , USSTRATCOM space situational awareness requirements (inc contributions to the U.S. Space Surveillance Network); and NASA Space Shuttleand orbital debris experiments. USAKA/RTS is a government-managed/contractor-operated (GMCO) site and is dependent upon its associated support contractors for operations and maintenance (O&amp;M). Program funds contractors to accomplish O&amp;M for both the RTS instrumentation suite and installation/base operations and provides mission essential bandwidth via a fiber optics cable system. Funding is required to maintain O&amp;M support, while accepting moderate risk of continued degradation of USAKA/RTS infrastructure (housing, offices, and facilities), higher future repair costs, and reduced logistical support capability. The instrumentation suite consists of a number of sophisticated, one-of-a-kind, radar, optical, telemetry, command/control/communications, safety, and data reduction systems. These systems include the four unique radars of the Kiernan Reentry Measurement Site (KREMS); Super Recording Automatic Digital Optical Tracker (SRADOT) long range video-metric tracking systems; high density data recorders for high data-rate telemetry collected by nine antennas; an underwater acoustic impact location system; and data analysis/reduction hardware/software. The Advanced Research Project Agency (ARPA) Long-Range Tracking and Instrumentation Radar (ALTAIR), and the Target Resolution Discrimination Experiment (TRADEX) radars located at USAKA/RTS, are two of only three radars world-wide that have deep-space tracking capability. The Millimeter Wave Radar (MMW) is the most powerful imaging radar in the world. Funding enables weapon system assessment of operational effectiveness and suitability for the Army, Air Force, Navy and MDA, which all have programs planned that have significant test and data gathering requirements at USAKA/RTS. This test data cannot be obtained except through the use of technical facilities available on and in the vicinity of USAKA/RTS. Program supports Army's PATRIOT air defense system and the Advanced Hypersonic Weapon technology development program; Air Force's Minuteman III ICBM and the Space and Missile Center's associated programs; MDA's Ballistic Missile Defense System, Flexible Target Family (FTF), and Family of Systems; NASA's Space Transportation System (STS), Small Expendable Deployer System and Orbital Debris Measurement Programs.</p>											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2010	FY 2011	FY 2012
Title: Management Support									10.275	10.420	10.438
Articles:									0	0	
Description: Funding is provided for the following effort											
FY 2010 Accomplishments:											

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605301A: ARMY KWAJALEIN ATOLL	PROJECT 614: ARMY KWAJALEIN ATOLL		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
Provided management support (salaries, training, travel, Space & Missile Defense Command (SMDC) matrix, etc). <b>FY 2011 Plans:</b> Continues to provide management support (salaries, training, travel, Space & Missile Defense Command (SMDC) matrix, etc). <b>FY 2012 Plans:</b> Will continue to provide management support (salaries, training, travel, Space & Missile Defense Command (SMDC) matrix, etc) to support test and evaluation of major Army and DoD missile systems and to provide space operations-surveillance and object identification.				
<b>Title:</b> Sustainment and Restoration/Modernization  <b>Articles:</b>  <b>Description:</b> Funding is provided for the following effort  <b>FY 2010 Accomplishments:</b> Accomplished facility maintenance and repair projects, including design and demolition. <b>FY 2011 Plans:</b> Will continue to accomplish facility maintenance and repair projects, including design and demolition.		3.000 0	9.500 0	-
<b>Title:</b> Procure petroleum, oils and lubricants (POL).  <b>Articles:</b>  <b>Description:</b> Funding is provided for the following effort  <b>FY 2010 Accomplishments:</b> Procured petroleum, oils and lubricants (POL). <b>FY 2011 Plans:</b> Continue to procure petroleum, oils and lubricants (POL). <b>FY 2012 Plans:</b> Will continue to procure petroleum, oils and lubricants (POL). Approx 80% of POL is for power generation and the remainder is for intra atoll marine and aviation transportation.		23.157 0	20.213 0	23.572
<b>Title:</b> Procure other mission services.  <b>Articles:</b>  <b>Description:</b> Funding is provided for the following effort		3.159 0	2.153 0	2.115

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2010	FY 2011	FY 2012
FY 2010 Accomplishments: Procured other mission services.						
FY 2011 Plans: Continues to procure other mission services.						
FY 2012 Plans: Will continue to procure other mission services which includes support from NETCOM, Tripler Army Medical Center, and Hickman AFB.						
Title: Transportation				7.008	4.532	7.072
Articles:				0	0	
Description: Funding is provided for the following effort						
FY 2010 Accomplishments: Provided air and sea transportation (cargo to and from continental United States).						
FY 2011 Plans: Continues to provide air and sea transportation (cargo to and from continental United States).						
FY 2012 Plans: Will continue to provide air and sea transportation (cargo to and from continental United States).						
Title: Kwajalein Cable System (KCS)				11.400	10.958	11.197
Articles:				0	0	
Description: Funding is provided for the following effort						
FY 2010 Accomplishments: Provided funding for Kwajalein Cable System (KCS) fiber optic cable for annual service contract. Initial Operational Capability begins third quarter fiscal year 2010.						
FY 2011 Plans: Continued to provide funding for Kwajalein Cable System (KCS) fiber optic cable for annual service contract. Initial Operational Capability begins third quarter fiscal year 2010.						
FY 2012 Plans:						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2010	FY 2011	FY 2012
Will continue to provide funding for Kwajalein Cable System (KCS) fiber optic cable for annual service contract. Initial Operational Capability began third quarter fiscal year 2010.						
<b>Title:</b> Direct Customers				45.120	49.017	48.142
				0	0	
<b>Articles:</b>						
<b>Description:</b> Funding is provided for the following effort						
<b>FY 2010 Accomplishments:</b> Supported Army, MDA, NASA and Air Force developmental and operational missile testing.						
<b>FY 2011 Plans:</b> Continue to support Army, MDA, NASA and Air Force developmental and operational missile testing.						
<b>FY 2012 Plans:</b> Will continue to support Army, MDA, NASA and Air Force developmental and operational missile testing.						
<b>Title:</b> Logistical Support of the self-contained islands of USAKA				50.246	52.070	38.233
				0	0	
<b>Articles:</b>						
<b>Description:</b> Funding is provided for the following effort						
<b>FY 2010 Accomplishments:</b> Provided logistical support (facilities maintenance and repair, aviation, automotive, marine, medical, food services, education, information management, environmental compliance, etc.) to self contained islands of USAKA.						
<b>FY 2011 Plans:</b> Continues to provide logistical support (facilities maintenance and repair, aviation, automotive, marine, medical, food services, education, information management, environmental compliance, etc.) to self contained islands of USAKA.						
<b>FY 2012 Plans:</b> Will continue to provide logistical support (facilities maintenance and repair, aviation, automotive, marine, medical, food services, education, information management, environmental compliance, etc.) to self contained islands of USAKA.						
<b>Title:</b> RTS Distributed Operations				4.026	4.925	4.837
				0	0	
<b>Articles:</b>						
<b>Description:</b> Funding is provided for the following effort						
<b>FY 2010 Accomplishments:</b>						

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605301A: <i>ARMY KWAJALEIN ATOLL</i>	<b>PROJECT</b> 614: <i>ARMY KWAJALEIN ATOLL</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2010</b>	<b>FY 2011</b>
Provided for RTS Distributed Operations (distributed operations of the Range sensors from Continental U.S.). <b><i>FY 2011 Plans:</i></b> Continues to provide for RTS Distributed Operations (distributed operations of the Range sensors from Continental U.S.). <b><i>FY 2012 Plans:</i></b> Will continue to provide for RTS Distributed Operations (distributed operations of the Range sensors from Continental U.S.).			
<b>Accomplishments/Planned Programs Subtotals</b>		157.391	163.788
<b>C. Other Program Funding Summary (\$ in Millions)</b>			
N/A			
<b>D. Acquisition Strategy</b>			
N/A			
<b>E. Performance Metrics</b>			
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.			