

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

BUDGET ACTIVITY 6 - Management support	PE NUMBER AND TITLE 0605301A - ARMY KWAJALEIN ATOLL		
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate
614 ARMY KWAJALEIN ATOLL	180812	174024	163514

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 missile systems and to provide space operations (surveillance and object identification) in support of U.S. Strategic Command and National Aeronautics and Space Administration (NASA) scientific and space programs. Programs supported include Army missile defense, Missile Defense Agency (MDA) demonstration/validation tests, Air Force and Navy Intercontinental Ballistic Missile (ICBM) development and operational tests, U.S. Space Surveillance Network, and NASA Space Transportation System (Shuttle) and orbital debris experiments. The technical element of USAKA/RTS is RTS, which consists of a number of sophisticated, one-of-a-kind, radar, optical, telemetry, Command/Control/Communications, 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; underwater acoustic impact location system; and data analysis/reduction hardware/software. USAKA/RTS is government-managed/contractor-operated (GMCO) and is therefore totally dependent upon its associated support contractors. Program provides funds for the contractors to accomplish installation operation and maintenance (O&M) 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 Army, Air Force, Navy and MDA have programs planned which have significant test and data gathering requirements at USAKA/RTS. Air Force programs launch from Vandenberg Air Force Base, CA, with complete data collection during late mid-course and terminal trajectory. MDA programs require range instrumentation to collect technical data in support of mid-course and terminal defense programs. This test data cannot be obtained except through the use of technical facilities available on and in the vicinity of USAKA/RTS. Program supports U.S. Strategic Command (STRATCOM) requirements for data collection on objects in space. 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. With the geographic location of RTS, MMW complements the tracking radars for national space capabilities. Program supports Army's Advanced Hypersonic Weapon-Technology Development program; Air Force's Minuteman III operational and developmental tests; MDA's Ground Based Mid-Course Missile Defense (GMD) tests, Flexible Target Family (FTF), Lower-tier Project Office (LTPO) and Family of Systems; NASA's Space Transportation System (STS), Small Expendable Deployer System and Orbital Debris Measurement Programs; and the Air Force Space and Missile Center's associated programs.

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B. Program Change Summary

	FY 2008	FY 2009	FY 2010
Previous President's Budget (FY 2009)	180052	174601	165798
Current BES/President's Budget (FY 2010)	180812	174024	163514
Total Adjustments	760	-577	-2284
Congressional Program Reductions		-577	
Congressional Rescissions			
Congressional Increases			
Reprogrammings	5570		
SBIR/STTR Transfer	-4810		
Adjustments to Budget Years			-2284

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BUDGET ACTIVITY 6 - Management support	PE NUMBER AND TITLE 0605301A - ARMY KWAJALEIN ATOLL		PROJECT 614
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate
614 ARMY KWAJALEIN ATOLL	180812	174024	163514

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<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Provide management support (salaries, training, travel, Space & Missile Defense Command (SMDC) matrix, etc).	9542	9973	10275
Accomplish facility maintenance and repair projects, including design and demolition.	13200	7200	7200
Procure petroleum, oils and lubricants (POL).	27000	26850	23517
Procure other mission services.	4696	4788	4051
Provide air and sea transportation (cargo to and from continental United States).	5850	5307	4966

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Provide costs for Kwajalein Cable System (KCS) fiber optic cable for annual service contract. Initial Operational Capability begins March 2010.			7670
Continue to support Army, MDA, NASA and Air Force developmental and operational missile testing.	56238	50441	49376
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.	59786	57408	52434
Provide for RTS Distributed Operations (distributed operations of the Range sensors from Continental U.S.).	4500	7400	4025
Small Business Innovative Research/Small Business Technology Transfer Programs		4657	
Total	180812	174024	163514