

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 1999
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BUDGET ACTIVITY 6 - Management and Support	PE NUMBER AND TITLE 0605301A Army Kwajalein Atoll	PROJECT D614
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COST <i>(In Thousands)</i>	FY1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D614 US Army Kwajalein Atoll	117096	133027	140344	140958	121470	124197	135778	139768	Continuing	Continuing

A. Mission Description and Budget Item Justification: U.S. Army Kwajalein Atoll/Kwajalein Missile Range (USAKA/KMR) is a remote (located in the Republic of the Marshall Islands), secure activity of the Major Range and Test Facility Base as constituted by DoD Directive 3200.11. Its function is to support test and evaluation of major Army and DoD missile systems, Army Space surveillance and object identification, and National Aeronautics and Space Administration (NASA) scientific and space programs. Programs supported include Army missile defense, Ballistic Missile Defense Organization (BMDO) demonstration/validation tests, Air Force Intercontinental Ballistic Missile (ICBM) development and operational tests, U.S. Space Surveillance Network, and NASA Space Transportation System (Shuttle) and orbital debris experiments. USAKA/KMR supports the Missile Defense Act of 1991 to put in place a Ground Based Defense System by 2006 or earliest date possible. The technical element of USAKA/KMR is the Kwajalein Missile Range 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 (RADOT) long range video-metric tracking systems, high density data recorders for high data-rate telemetry, and underwater acoustic impact location system data analysis and reduction hardware and software. USAKA/KMR is contractor operated and is therefore totally dependent upon its associated support contractors. Program also provides funds for the contractors to accomplish installation operation and maintenance (O&M). Funding levels programmed for FY 2000 and FY 2001 are required to maintain minimal O&M support, while accepting moderate risk of continued degradation of USAKA/KMR infrastructure (housing, offices, facilities), higher future repair costs, and reduced logistical support capability, as well as continuation of the KMR Modernization and Remoting (KMAR) Program. The KMAR program is a concurrent, range-wide modernization effort to maximize the use of common, standardized Commercial Off-The-Shelf (COTS) technology to replace obsolete components; implement common hardware/software architectures and automation; and "remote" the operation of range sensors and instrumentation to the island of Kwajalein. This effort will upgrade range capabilities that are critical to the success of upcoming Theater Missile Defense (TMD) and National Missile Defense (NMD) test missions as well as reduce USAKA/KMR annual operating costs by \$18M per year beginning in FY 2003 as reflected in FY 2003-2005 funding levels above. Due to congressional reductions in FY 1998 and FY 1999 and shortfalls in outside investment in FY 1998, KMAR has been restructured to focus on automating and remoting the KREMS radars to Kwajalein. The savings of \$18M already reflected in funding shown for FY 2002 will need to be restored due to the delay in completion of the radar automation. The Army, Air Force, Navy and BMDO have programs planned, which have significant test and data gathering requirements at USAKA/KMR. Air Force programs require firing at full range with complete data collection during late mid course and terminal trajectory. BMDO programs require range sensors to collect technical data in support of National Missile and Theater Missile Defense programs being conducted at USAKA/KMR. These test data cannot be obtained except through the use of technical facilities available on and in the vicinity of USAKA/KMR. Data collection on objects in space remains significant because the Defense Advanced Research Project Agency (DARPA) Long-Range Tracking and Instrumentation Radar (ALTAIR), located at USAKA/KMR, is one of only three sensors world-wide that has deep-space tracking capability. Programs supported include Air Force programs Peacekeeper, Minuteman III, and Delta; Army/BMDO's Strategic Target System (STARS), Multi-Service Launch System (MSLS), Midcourse Space Experiment (MSX), Missile Defense Critical Measurements Program, Theater High Altitude Air Defense (THAAD), Patriot, and ground-based radar; NASA's Space

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<p>Transportation System (STS), Orbital Debris Measurement Program, Small Expendable Deployer System and Orbital Debris Radar Calibration Spheres, along with the Air Force Space and Missile Center's associated programs.</p> <p>FY 1998 Accomplishments:</p> <ul style="list-style-type: none"> • 6560 Provided management support (salaries, training, travel, SMDC matrix support, etc.). • 2395 Accomplished maintenance and repair projects. • 16180 Procured POL and MILSTRIP. • 2308 Procured other mission operating supplies, equipment, and services. • 6422 Provided air and sea transportation (cargo to and from continental United States). • 32101 Continued to support Army, BMDO, NASA, and Air Force developmental and operational missile testing. Continued integration of range technical support contract effort. Completed design phase of KMR Modernization and Remoting (KMAR) program and begin fabrication and software coding. • 51130 Provided logistical support to self contained islands of USAKA. <p>Total 117096</p> <p>FY 1999 Planned Program:</p> <ul style="list-style-type: none"> • 8082 Provide management support (salaries, training, travel, SMDC matrix, etc.). • 500 Accomplish maintenance and repair projects. • 14626 Procure POL and MILSTRIP. • 2889 Procure other mission operating supplies, equipment, and services. • 6103 Provide air and sea transportation (cargo to and from continental United States). • 35212 Continue to support Army, BMDO, NASA, and Air Force developmental and operational missile testing. Continue integration of range technical support contract effort. Continue support to KMAR program). • 60481 Provide logistical support to self contained islands of USAKA. • 5134 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs <p>Total 133027</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 8252 Provide management support (salaries, training, travel, SMDC matrix, etc). • 1583 Accomplish maintenance and repair projects. 		
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- 14933 Procure POL and MILSTRIP.
- 2950 Procure other mission operating supplies, equipment, and services.

FY 2000 Planned Program: (continued)

- 6231 Provide air and sea transportation (cargo to and from continental United States).
 - 37951 Continue to support Army, BMDO, NASA and Air Force development and operational missile testing. Continue integration of range technical support contract effort. Continue support to KMR Modernization and Remoting (KMAR).
 - 68444 Provide logistical support to self contained islands of USAKA.
- Total 140344

FY 2001 Planned Program:

- 8425 Provide management support (salaries, training, travel, SMDC matrix, etc.).
 - 2317 Accomplish maintenance repair projects.
 - 15247 Procure POL and MILSTRIP.
 - 3012 Procure other mission operating supplies, equipment, and services.
 - 6362 Provide air and sea transportation (cargo to and from continental United States).
 - 37726 Continue to support Army, BMDO, NASA and Air Force development and operational missile testing. Continue integration of range technical support contract effort. Continue support to KMR Modernization and Remoting (KMAR).
 - 67869 Provide logistical support to self contained islands of USAKA.
- Total 140958

B. Program Change Summary	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (FY 1999 PB)	120918	142710	142509	133693
Appropriated Value	124769	134710		
Adjustments to Appropriated Value				
a. Congressional General Reductions	-3851	-1683		
b. SBIR / STTR	-2874			
c. Omnibus or Other Above Threshold Reduction	-948			
d. Below Threshold Reprogramming				
e. Rescissions				
Adjustments to Budget Years Since FY 1999 PB			-2165	7265
Current Budget Submit (FY 2000/2001 PB)	117096	133027	140344	140958

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