

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

PROJECT

D614

COST (In Thousands)	FY 1997 Actual	FY 1998 Estimate	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	Cost to Complete	Total Cost
D614 US Army Kwajalein Atoll	140078	120918	142710	142509	133693	130490	134329	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 sonobuoy missile 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). The lean O&M funding for FY 1998 resulted in the delay of critical repair and replacement of facilities and equipment. The FY 1999-2000 funding increase provides for the minimum level of USAKA/KMR O&M as well as continuation of the KMR Modernization project - Remoting Roi Operations. The Remoting Roi Operations project 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 project 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 \$17M per year beginning in FY02. These savings are already reflected in USAKA's funding for FY2001-2003. 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 Advanced Research Project Agency (ARPA) 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 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. Funding is in support of site installations or operations required for general research and development, not allocable to specific R&D missions. This type of activity is appropriately funded in Budget Activity 6.

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FY 1997 Accomplishments:

•	7946	Provided management support (salaries, training, travel, SMDC matrix support, etc.).
•	9169	Accomplished maintenance and repair projects.
•	17291	Procured POL and MILSTRIP.
•	5009	Procured other mission operating supplies.
•	6180	Provided air and sea transportation (cargo to and from continental United States).
•	38892	Continued to support Army, BMDO, NASA, and Air Force developmental and operational missile testing. Continued integration of range technical support contract effort. Initiated KMR modernization program (Remoting ROI).
•	55591	Provided logistical support to self contained islands of USAKA.
Total	140078	

FY 1998 Planned Program:

•	8099	Provide management support (salaries, training, travel, SMDC matrix support, etc.).
•	1900	Accomplish maintenance and repair projects.
•	14907	Procure POL and MILSTRIP.
•	3300	Procure other mission operating supplies.
•	5879	Provide air and sea transportation (cargo to and from continental United States).
•	34563	Continue to support Army, BMDO, NASA, and Air Force developmental and operational missile testing. Continue integration of range technical support contract effort. Complete design phase of KMR modernization program (Remoting ROI) and begin fabrication and software coding.
•	49396	Provide logistical support to self contained islands of USAKA.
•	2874	Small Business Innovative Research/Small Business Technology Transfer Programs.
Total	120918	

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Exhibit R-2 (PE 0605301A)

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FY 1999 Planned Program:

- 8095 Provide management support (salaries, training, travel, SMDC matrix support, etc.).
 - 9929 Accomplish maintenance and repair projects.
 - 17468 Procure POL and MILSTRIP.
 - 5112 Procure other mission operating supplies.
 - 6248 Provide air and sea transportation (cargo to and from continental United States).
 - 39479 Continue to support Army, BMDO, NASA, and Air Force developmental and operational missile testing. Continue integration of range technical support contract effort. Continue fabrication and software coding for KMR modernization program in preparing for installation.
 - 56379 Provide logistical support to self contained islands of USAKA.
- Total 142710

B. Project Change Summary

	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>
FY 1998/1999 President's Budget	143789	138769	142125
Appropriated Value	146864	124769	
Adjustments to Appropriated Value	-6786	-3851	
FY 1999 President's Budget	140078	120918	142710

Change Summary Explanation: Funding: FY 1998 decrease of (-17851); Congressional reduction (-14000) plus (-3851) for Undistributed Congressional reductions.

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