

ARCHIVED REPORT

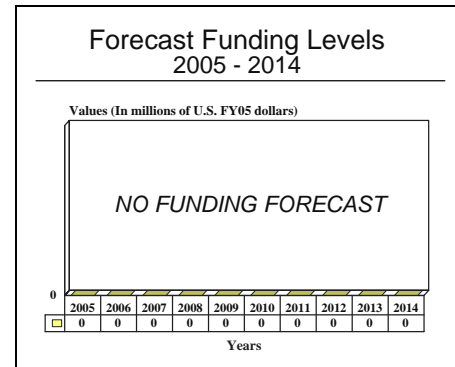
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Kwajalein Atoll – Archived 12/2006

Outlook

- The United States Army Kwajalein Atoll/Ronald Reagan Ballistic Missile Defense Test Site is operational, with ongoing maintenance, research and development efforts
- Barring any major developments, this report will be archived in December 2006



Orientation

Description. The United States Army Kwajalein Atoll/Ronald Reagan Ballistic Missile Defense Test Site (USAKA/RTS) is a test facility located in the Republic of the Marshall Islands. Its function is to support test and evaluation of major U.S. Army and U.S. Department of Defense (DoD) missile systems.

Sponsor

U.S. Army
Space & Missile Defense Command
Kwajalein Support Directorate
Huntsville, Alabama (AL) 35807
Tel: +1 (256) 955-3952
Fax: +1 (256) 645-1880
Web site: <http://www.smhc.army.mil/kmr.html>

Status. Operational, with ongoing maintenance, research and development efforts.

Total Produced. Not applicable.

Application. To support test and evaluation of major U.S. Army and U.S. Department of Defense missile systems.

Price Range. Not applicable.

Contractors

NOTE(S): Contractors for Kwajalein Atoll have not been disclosed.

Technical Data

Managed and supervised by the United States Army, but contractor-operated, the U.S. Army Kwajalein Atoll is a major Department of Defense test range facility located in the Republic of the Marshall Islands, approximately 2,100 miles southwest of Hawaii. It is a coral reef formation in the shape of a crescent loop, enclosing the world's largest lagoon, with a surface area of 1,100 square miles. The atoll itself stretches for some 75

nautical miles and is approximately 15 nautical miles wide. Situated on the reef enclosing the lagoon are approximately 100 small islands with a total land area of 5.6 square miles. Kwajalein Island, one of the three largest islands in the atoll, is 0.5 mile wide and 2.5 miles long (approximately 1.2 square miles in area).

Kwajalein Atoll is the only range in the Western world that can accommodate the firing of intercontinental

ballistic missiles (ICBMs) in a tactical configuration with sophisticated technical data collection during the terminal portion of the trajectory. The range's unique capabilities include collection of signature data on objects outside the Earth's atmosphere, collection of terminal trajectory and impact data, recovery of re-entry vehicles, and nearly immediate transmission of data to respective mission sponsors.

USAKA supports major U.S. DoD systems, space surveillance, and object identification, as well as NASA scientific and space programs. These programs include the MDA demonstration/validation tests, U.S. Air Force ICBM development and operational tests, the U.S. Space Command Space Surveillance Network, the NASA Space Transportation System (space shuttle), and orbital debris experiments.

The technical element of the facility is the Kwajalein Missile Range (KMR). The KMR consists of a number of sophisticated, one-of-a-kind radar, optical, telemetry, C³, and data reduction systems. These systems include Super Recording Automatic Digital Optical Tracker (RADOT) long-range metric video tracking systems; the four unique radars of the Kiernan Reentry Measurement Site (KREMS); high-density data recorders for high-data-rate telemetry; and sonobuoy missile impact location system data analysis and reduction hardware and software.

Kwajalein Atoll is organized around three groups: an office in Huntsville, Alabama, the range itself, and Honolulu and Vandenberg AFB field offices.

Variants/Upgrades

Ongoing upgrades keep the Kwajalein Atoll test facility up to date.

Program Review

Background. The Kwajalein Atoll/Ronald Reagan Ballistic Missile Defense Test Site (USAKA/RTS) was established in 1959 (at that time it was called Pacific Missile Range Facility, Kwajalein). Today, Project 614

of U.S. Army PE#0605301A provides funds for USAKA/RTS management support (salaries, maintenance, and repair projects, etc.).

Funding

Management support funding of Kwajalein Atoll/Ronald Reagan Ballistic Missile Defense Test Site is provided by the United States Army.

Recent Contracts

Specific details of the contract awards and the vendors involved have not been released to the public.

Timetable

<u>Month</u>	<u>Year</u>	<u>Major Development</u>
	1959	Naval Station Kwajalein becomes Pacific Missile Range Facility, Kwajalein
	1963	TRADEX radar installed at Kwajalein
	1970	ALCOR and ALTAIR radar installed at Kwajalein
	1981	TPQ-18 radar at Kwajalein modified
Nov	1984	MOTR development and production contract awarded to RCA
Mar	1994	Kwajalein Atoll selected as one of two test ranges to perform TMD testing
	1995	Basic upgrades to non-major and sustaining facilities
	1998	Project 983 completes three major design reviews for the KMAR
	1999	Project 983 purchases ARPA Lincoln C-band Observable Radar (ALCOR) and Millimeter Wave (MMW) radar material for Kwajalein
	2000	Project 983 finishes updating the Recording Automatic Digital Optical Tracker (RADOT) optics computers at Kwajalein
	2001	Project 983 constructs the Kwajalein Mission Control Center
	2002	Project 983 begins installing TRADEX transmit control, antenna control, and radiation monitor interface subsystems at Kwajalein

<u>Month</u>	<u>Year</u>	<u>Major Development</u>
	2003	Project 983 slated to begin upgrading Kwajalein Mission Control Center (KMCC) for compatibility with upgraded KMAR sensors
	2004	Project 983 expected to enhance reliability of KREMS radar transmitters
	2005	Project 614 provides USAKA/RTS management support

Worldwide Distribution

Kwajalein Atoll is a major **United States Department of Defense** test range facility located in the Marshall Islands.

Forecast Rationale

The United States Army Kwajalein Atoll/Ronald Reagan Ballistic Missile Defense Test Site (USAKA/RTS) is a test facility located in the Republic of the Marshall Islands. Its function is to support test and evaluation of major U.S. Army and U.S. Department of Defense (DoD) missile systems.

Barring any major developments, this report will be archived in December 2006. As a result, Forecast International has **omitted** its **Ten-Year Outlook** chart.

Ten-Year Outlook

With the archiving of this report in December 2006, Forecast International has **omitted** the Ten-Year Outlook chart.

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