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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army	Date: February 2018
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Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support					R-1 Program Element (Number/Name) PE 0606002A / Ronald Reagan Ballistic Missile Defense Test Site							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	0.000	61.254	63.011	-	63.011	62.752	64.105	59.961	61.065	0.000	372.148
XW9: Reagan Test Site	-	0.000	61.254	63.011	-	63.011	62.752	64.105	59.961	61.065	0.000	372.148

Note

Beginning in Fiscal Year (FY) 2018, this Program Element (PE) realigns operational and mission support funding from PE 0605301A (Army Kwajalein Atoll) / Project DX2 (Army Kwajalein Test Ranges and Mission Support). Installation management functions for the Reagan Test Site remain in Project DX2.

A. Mission Description and Budget Item Justification

Space and Missile Defense Command-Army Forces Strategic Command (USASMDC-ARSTRAT) funding is for management and contracting personnel support (salaries and travel) to enable the management of the test and evaluation of major Army and Department of Defense (DoD) missile systems for the Ronald Reagan Ballistic Missile Defense Test Site (RTS). RTS began its funding under Program Element (PE)0605301A, Project DX2 in Fiscal Year (FY) 2014. Beginning in FY 2018, operational and mission support functions at RTS were realigned to PE 0606002A. RTS is a tenant on the United States (U.S.) Army Garrison - Kwajalein Atoll (USAG-KA), located within the Kwajalein Atoll in the Republic of the Marshall Islands, which 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 (Space Situational Awareness; object tracking & identification) in support of U.S. Strategic Command (USSTRATCOM) and National Aeronautics and Space Administration (NASA) scientific and unique space programs. Programs supported include Army Missile Defense, Air Force, and Navy Intercontinental Ballistic Missile (ICBM) developmental and operational tests; Army, Air Force, Navy, and Defense Advanced Research Projects Agency (DARPA) hypersonic Boost-Glide developmental tests; Missile Defense Agency (MDA) operational/demonstration/validation tests; USSTRATCOM space situational awareness requirements (including contributions to the U.S. Space Surveillance Network); and NASA ionospheric studies, space debris tracking, and data collection in support of space experiments. 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 contracting support for end item procurement, life cycle acquisition planning, and solicitation, negotiation, award, execution and management for weapon systems contracts. Program funds contractors to accomplish O&M for RTS instrumentation suites and provides mission essential bandwidth via a fiber optics cable system. 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 ten antennas; an underwater acoustic impact location system; and data analysis/reduction hardware/software and Continental United States (CONUS) based mission control center. The Advanced Research Project Agency (ARPA) Long-Range Tracking and Instrumentation Radar (ALTAIR), and the Target Resolution Discrimination Experiment (TRADEX) radars located at RTS, are the only radars in this area of operation that have deep-space tracking capability. The Millimeter Wave Radar (MMW) is one of the highest resolution imaging radars in the world, providing critical intelligence data. 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 RTS. This test data cannot be obtained except through the use of technical facilities available on and in the vicinity of RTS. Program supports Army's PATRIOT air defense system; Air Force's Minuteman III ICBM and the Space and Missile Center's associated programs; MDA's Ballistic Missile Defense System, ICBM Targets, and Layered Ballistic Missile Defense operational tests (including: PATRIOT, Terminal High-Altitude Area Defense (THAAD), and Aegis Weapon System), and NASA's space experiments.

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Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
2040: Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support		PE 0606002A / Ronald Reagan Ballistic Missile Defense Test Site			
B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	0.000	61.254	62.205	-	62.205
Current President's Budget	0.000	61.254	63.011	-	63.011
Total Adjustments	0.000	0.000	0.806	-	0.806
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	0.806	-	0.806

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0606002A / Ronald Reagan Ballistic Missile Defense Test Site				Project (Number/Name) XW9 / Reagan Test Site			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
XW9: Reagan Test Site	-	0.000	61.254	63.011	-	63.011	62.752	64.105	59.961	61.065	0.000	372.148
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note This project will start in FY18.												
A. Mission Description and Budget Item Justification This Project covers operations and mission support functions at the Ronald Reagan Ballistic Missile Defense Test Site and is managed by Program Executive Office Missiles & Space.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2017	FY 2018	FY 2019	
Title: Civilian Pay (RTS) Description: Funding covers civilians to perform management oversight of Army and DOD Missile Test programs. FY 2018 Plans: Continuing to provide government personnel support (salaries) to enable the management of the test and evaluation of major Army and DoD missile systems. FY 2019 Plans: Will continue to provide government personnel support (salaries) to enable the management of the test and evaluation of major Army and DoD missile systems. FY 2018 to FY 2019 Increase/Decrease Statement: Civilian pay economic assumptions revised.									-	5.605	5.114	
Title: Temporary Duty (TDY)/Training/Supplies - Military and Civilian Description: Funding will provide for travel and training for civilians and military to assist in the testing of the Army and DoD Missile system Programs. FY 2018 Plans: Continuing to provide government personnel support (training and travel) to enable the management of the test and evaluation of major Army and DoD missile systems. FY 2019 Plans:									-	0.639	0.639	

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019
Will continue to provide government personnel support (training and travel) to enable the management of the test and evaluation of major Army and DoD missile systems.				
Title: Outside Obligations/Other Government Agencies Description: Funding provided to other Government Agencies for reimbursable-type work efforts. FY 2018 Plans: Continuing to provide support to test and evaluation of major Army and DoD missile systems. FY 2019 Plans: Will continue to provide support to test and evaluation of major Army and DoD missile systems. FY 2018 to FY 2019 Increase/Decrease Statement: Inflation and increased funds for Kwajalein inner ring submarine fiber optics (SFOTS) upgrade/replacement		-	5.316	8.129
Title: Fiber Optic Cable (Kwajalein Cable System (KCS))/Inner Ring Submarine Description: Fiber Optic Cable is Provides lease cost for Fiber Optic Cable between Kwajalein and Guam. FY 2018 Plans: Continuing to provide funding for lease of the KCS fiber optic cable between Kwajalein Island and Guam, and for backup satellite. FY 2019 Plans: Will continue to provide funding for lease of the KCS fiber optic cable between Kwajalein Island and Guam, and for backup satellite. Will fund annual fiber maintenance agreement. FY 2018 to FY 2019 Increase/Decrease Statement: Inflation		-	11.373	11.443
Title: RTS Contractor Prime Pay (KRS) Description: Provide funding for Prime contractor to perform technical Operation and Maintenance support to support test and space missions. FY 2018 Plans: Continuing to provide technical O&M support (test planning, instrumentation operations and maintenance, systems engineering, flight safety, and launch ordnance) to assure the capability of the Range to support test and space missions. FY 2019 Plans:		-	21.125	24.728

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019
Will continue to provide technical O&M support (test planning, instrumentation operations and maintenance, systems engineering, flight safety, and launch ordnance) to assure the capability of the Range to support test and space missions. Begins buydown of critical maintenance backlog. FY 2018 to FY 2019 Increase/Decrease Statement: Inflation and partial buy down of maintenance backlog				
Title: Contractor Material Description: Provide for materials to maintain range capabilities and support test operations. FY 2018 Plans: Continuing to provide critical non-labor materials to maintain critical range capabilities and prevent obsolescence in support of test operations. FY 2019 Plans: Will continue to provide critical non-labor materials to maintain critical range capabilities and prevent obsolescence in support of test operations. Begins buydown of critical maintenance backlog. FY 2018 to FY 2019 Increase/Decrease Statement: Inflation and partial buy down of maintenance backlog		-	1.834	3.963
Title: Federally Funded Research and Development Centers (FFRDC) Contractor Pay (MIT/LL) Description: Provide for technical expertise to RTS leadership for the overall performance of Range Operations. FY 2018 Plans: Continuing to provide technical advice to RTS leadership in support of Range operations, strategic planning, and technical execution of critical technology. FY 2019 Plans: Will continue to provide technical advice to RTS leadership in support of Range operations, strategic planning, and technical execution of critical technology. FY 2018 to FY 2019 Increase/Decrease Statement: Inflation and technical expertise during Prime Contract transition		-	4.741	5.432
Title: Contractor Pay Meteorological Description: Provide capability for weather sensing capability which allows for test planning and execution of the program.		-	1.954	2.150

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019
FY 2018 Plans: Continuing to provide support for sustained weather sensing capabilities, including weather reporting via radar data. This capability provides critical data to test planning and execution. FY 2019 Plans: Will continue to provide support for sustained weather sensing capabilities, including weather reporting via radar data. This capability provides critical data to test planning and execution. FY 2018 to FY 2019 Increase/Decrease Statement: Inflation				
Title: Ground Transportation Description: Provide transportation of material and passenger between Kwajalein and continental U.S. (CONUS). FY 2018 Plans: Continuing to provide mission specific material and passenger transportation via air (Air Mobility Command) and sea (Surface Deployment and Distribution Command) between Kwajalein Atoll and CONUS. FY 2019 Plans: Continuing to provide mission specific material and passenger transportation via air (Air Mobility Command) and sea (Surface Deployment and Distribution Command) between Kwajalein Atoll and CONUS. FY 2018 to FY 2019 Increase/Decrease Statement: Separate Logistic (IMCOM) and Technical (RTS) contracts should reduce shipment amounts charged to range operations.		-	1.490	0.86
Title: Mission Specific Environmental Description: Ensures Range Readiness and all regulatory environmental requirements are compliant with range and test requirements. FY 2018 Plans: Continuing to provide the capability to assess and maintain the Range Readiness and compliance with environmental requirements. FY 2019 Plans: Will continue to provide the capability to assess and maintain the Range Readiness and compliance with environmental requirements. FY 2018 to FY 2019 Increase/Decrease Statement:		-	0.542	0.552

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018
Inflation			
Title: USNS Worthy - Shipyard Description: Provide for maintenance to keep all parts of the ship operational for testing. FY 2018 Plans: Provides for required triennial overhaul of marine vessel - Kwajalein Mobile Range Safety System (Worthy). Annual O&M for the Worthy is included in RTS Contractor line above. FY 2018 to FY 2019 Increase/Decrease Statement: No longer funded in XW9		-	6.000
Title: Army Contracting Command (ACC) Support Description: Contracting support to administrator the contract vehicle for the program. FY 2018 Plans: Provide contracting support (salaries, training, travel, etc) to test and evaluation of major Army and DoD Missile System. FY 2018 to FY 2019 Increase/Decrease Statement: No longer funded in XW9		-	0.635
Accomplishments/Planned Programs Subtotals		-	61.254
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
N/A			
E. Performance Metrics			
N/A			