Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army

R-1 Program Element (Number/Name)

Date: February 2015

Appropriation/Budget Activity
2040: Research, Development, Test & Evaluation, Army I BA 6: RDT&E

PE 0605301A I Army Kwajalein Atoll

Management Support

management cappert												
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	187.225	175.956	205.145	-	205.145	189.452	208.904	215.639	197.173	-	-
614: Army Kwajalein Atoll	-	0.417	-	-	-	-	-	-	-	-	-	-
DW7: Army Kwajalein Atoll Facilities Sustainment	-	10.885	32.950	41.625	-	41.625	35.698	40.268	43.742	46.290	-	-
DW8: Army Kwajalein Atoll Installation Services	-	102.152	74.898	83.297	-	83.297	73.775	78.466	78.566	80.130	-	-
DW9: Army Kwajalein Atoll Restoration And Modernization	-	0.576	1.964	12.820	-	12.820	11.927	21.320	24.701	2.039	-	-
DX2: Army Kwajalein Test Ranges and Mission Support	-	73.195	66.144	67.403	-	67.403	68.052	68.850	68.630	68.714	-	-

Note

FY 2016 Increase is attributed to realignment of funding for higher priority programs.

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 acquisition programs and to provide space operations (surveillance and object identification) in support of U.S. Strategic Command (USSTRATCOM) and National Aeronautics and Space Administration (NASA) scientific and space programs. Programs supported include Army missile defense, Air Force and Navy Intercontinental Ballistic Missile (ICBM) developmental and operational tests; Army, Air Force and Defense Advanced Research Projects Agency (DARPA) hypersonic developmental tests; Missile Defense Agency (MDA) demonstration/validation tests; , USSTRATCOM space situational awareness requirements (inc contributions to the U.S. Space Surveillance Network); and NASA Space Shuttle and orbital debris experiments. USAKA/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 contractors to accomplish O&M for both the RTS instrumentation suite and installation/base operations 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 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 nine antennas; an underwater acoustic impact location system; and data analysis/reduction hardware/software. 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. 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

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army

Date: February 2015

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 6: RDT&E Management Support

PE 0605301A I Army Kwajalein Atoll

USAKA/RTS. This test data cannot be obtained except through the use of technical facilities available on and in the vicinity of USAKA/RTS. Program supports Army's PATRIOT air defense system and the Advanced Hypersonic Weapon technology development program; Air Force's Minuteman III ICBM and the Space and Missile Center's associated programs; MDA's Ballistic Missile Defense System, Flexible Target Family (FTF), and Family of Systems; NASA's Space Transportation System (STS), Small Expendable Deployer System and Orbital Debris Measurement Programs.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	193.555	176.041	179.830	-	179.830
Current President's Budget	187.225	175.956	205.145	-	205.145
Total Adjustments	-6.330	-0.085	25.315	-	25.315
 Congressional General Reductions 	-	-0.085			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-6.330	-			
 Adjustments to Budget Years 	-	-	25.315	-	25.315

Exhibit R-2A, RDT&E Project J	ustification	: PB 2016 A	rmy							Date: Feb	ruary 2015	
Appropriation/Budget Activity 2040 / 6			R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll				Project (Number/Name) 614 I Army Kwajalein Atoll					
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
614: Army Kwajalein Atoll	-	0.417	-	-	-	-	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Project 614, 665301.614 is realigned to Project DX2, allocation 665301.DX2. Project Element 665301.614 is realigned to 5 Project Elements: 665301.614, 665301.DX2, 665301.DW7, 665301.DW8 and 665301.DW9.

A. Mission Description and Budget Item Justification

Funding for management and contracting personnel support (salaries and travel) to enable the management of the test and evaluation of major Army and DoD missile systems for the Ronald Reagan Ballistic Missile Defense Test Site (RTS) will be funded by Project Element 665301.DX2 starting FY15. 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 acquisition programs and to provide space operations (surveillance and object identification) in support of U.S. Strategic Command (USSTRATCOM) and National Aeronautics and Space Administration (NASA) scientific and space programs. Programs supported include Army missile defense, Air Force and Navy Intercontinental Ballistic Missile (ICBM) developmental and operational tests; Army, Air Force and Defense Advanced Research Projects Agency (DARPA) hypersonics developmental tests; Missile Defense Agency (MDA) demonstration/validation tests; USSTRATCOM space situational awareness requirements (inc contributions to the U.S. Space Surveillance Network); and NASA Space Shuttle and orbital debris experiments. USAKA/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 contractors to accomplish O&M for both the RTS instrumentation suite and installation/base operations 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 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 nine antennas; an underwater acoustic impact location system; and data analysis/ reduction hardware/software. 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. 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 USAKA/RTS. This test data cannot be obtained except through the use of technical facilities available on and in the vicinity of USAKA/RTS. Program supports Army's PATRIOT air defense system and the Advanced Hypersonic Weapon technology development program; Air Force's Minuteman III ICBM and the Space and Missile Center's associated programs; MDA's Ballistic Missile Defense System, Flexible Target Family (FTF), and Family of Systems; NASA's Space Transportation System (STS), Small Expendable Deployer System and Orbital Debris Measurement Programs.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Management and Contracting Support	0.417	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: F	ebruary 201	5		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll		oject (Number/Name) 4 I Army Kwajalein Atoll				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2014	FY 2015	FY 2016		
Description: Funding is provided for the following effort							
FY 2014 Accomplishments: Continues to provide management support (salaries, training, travel to support test and evaluation of major Army and DoD missile syste identification.	•	,					

Accomplishments/Planned Programs Subtotals

0.417

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

PE 0605301A: *Army Kwajalein Atoll* Army

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army								Date: Febr	uary 2015			
Appropriation/Budget Activity 2040 / 6			R-1 Program Element (Number/Name) PE 0605301A I Army Kwajalein Atoll				Project (Number/Name) DW7 I Army Kwajalein Atoll Facilities Sustainment					
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
DW7: Army Kwajalein Atoll Facilities Sustainment	-	10.885	32.950	41.625	-	41.625	35.698	40.268	43.742	46.290	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Program was previously in a different Program Element/Project-665301-DX2.

A. Mission Description and Budget Item Justification

Provides resources for maintenance and repair necessary to sustain Kwajalein facilities in good working order and in accordance with industry standards. The proposed FY16 funding of \$41.625 million is 93% of the DoD Facility Sustainment Model 15.2 requirement of \$44.587 million. Full sustainment model resourcing is required to prevent deterioration and corrosion of existing facilities. Kwajalein facilities currently exhibit significant deterioration due to harsh environmental climate and historical resource shortfalls.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Facility Sustainment	10.885	32.950	41.625
Description: Facilities Sustainment			
FY 2014 Accomplishments: Maintained facility infrastructure on US Army Garrison Kwajalein Atoll (USAGKA).			
FY 2015 Plans: Maintains facility infrastructure on US Army Garrison Kwajalein Atoll (USAGKA).			
FY 2016 Plans: Will Maintain facility infrastructure on US Army Garrison Kwajalein Atoll (USAGKA).			
Accomplishments/Planned Programs Subtotals	10.885	32.950	41.625

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Army

PE 0605301A: Army Kwajalein Atoll

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Arr	Date: February 2015			
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A I Army Kwajalein Atoll	Project (Number/Name) DW7 I Army Kwajalein Atoll Facilities Sustainment		
E. Performance Metrics N/A				

Exhibit R-2A, RDT&E Project J	xhibit R-2A, RDT&E Project Justification: PB 2016 Army							Date: February 2015				
Appropriation/Budget Activity 2040 / 6				, ,				Project (Number/Name) DW8 I Army Kwajalein Atoll Installation Services				
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
DW8: Army Kwajalein Atoll Installation Services	-	102.152	74.898	83.297	-	83.297	73.775	78.466	78.566	80.130	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Program was previously in a different Program Element/Project-665301-DX2.

A. Mission Description and Budget Item Justification

This program resources Base Operations/Installation Services Support for U.S. Army Kwajalein (USAKA) located in the Republic of the Marshall Islands, a remote, secure activity designated as a Major Range and Test Facility Base. Kwajalein is a government-managed/contractor-operated site and is dependent upon its associated support contracts for the daily operations and maintenance of Base Ops/Installation Services Support. Installation Services Support consists of Medical/Dental Services; Education (K-12) Services; Food/Grocery Services; Contracted Security Guards; Aviation/Marine support; and logistical (fuel/transportation) operations support requirements. Base Operations/Installation Services Support resourcing is a critical enabler to ensure continuity of operations supporting Test and Evaluation and Space Operations of the Reagan Test Site in its role as a Major Range and Test Facility Base Activity.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Logistical Support	46.143	27.190	35.341
Description: Provides All Logistics Functions to include Water transportation and Air Field Operations along with Transportation, Supply, Laundry, Food Service and Maintenance. Supply provides for installation supply operations which include: Ammunition Supply Point services, secondary items and bulk petroleum for garrison and non-brigade tenant units, operation of a central receiving point for goods delivered to the installation, management of Organizational Clothing and Individual Equipment (OCIE), management of non-deployable installation property, and receipt, storage, issue, reutilization and tracking of hazardous materials. Maintenance includes DS/GS support maintenance (Non-Tactical Support). Provides funding for installation supply operations which include: Ammunition Supply Point services, secondary items and bulk petroleum for garrison and non-brigade tenant units, operation of a central receiving point for goods delivered to the installation, management of OCIE, management of non-deployable installation property, and receipt, storage, issue, reutilization and tracking of hazardous materials. Maintenance includes DS/GS support maintenance (Non-Tactical Support). Transportation includes the operation of transportation motor pools, installation transportation offices, intra-installation rail equipment, and cost of leased vehicles; also includes storage and movement of privately-owned household goods of military personnel (and civilian personnel in overseas areas) in connection with assignment, reassignment, or termination of government-furnished family housing when no PCS orders are issued. Excludes OSA and Watercraft. Laundry account funds Government Owned Government Operated (GOGO), Government Owned Contractor Operated (GOCO) facilities that provide laundry and dry cleaning service for			

PE 0605301A: Army Kwajalein Atoll

Army

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army							
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A I Army Kwajalein Atoll	e) Project (Number/Name) DW8 I Army Kwajalein Atoll Ins Services					
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016			
OCIE items to units IAW AR 210-130. Food account funds the opelssue Subsistence Activities (TISA), including pay of government a equipment.							
FY 2014 Accomplishments: Transportation, Supply, Laundry, Food Service and Maintenance. included: Ammunition Supply Point services, secondary items and operation of a central receiving point for goods delivered to the insinstallation property, and receipt, storage, issue, reutilization and tracks apport maintenance (Non-Tactical Support). Provided funding Supply Point services, secondary items and bulk petroleum for gar receiving point for goods delivered to the installation, management and receipt, storage, issue, reutilization and tracking of hazardous Transportation includes the operation of transportation motor pools equipment, and cost of leased vehicles; also includes storage and personnel (and civilian personnel in overseas areas) in connection furnished family housing when no PCS orders are issued. Exclude Owned Government Operated (GOGO), Government Owned Cont Operated (COCO) facilities that provide laundry and dry cleaning sunded the operation of Active, Guard, and Reserve dining facilities of government and contract employees, food service supplies, and	bulk petroleum for garrison and non-brigade tenant units stallation, management of OCIE, management of non-dep racking of hazardous materials. Maintenance included DS of for installation supply operations which include: Ammunitarison and non-brigade tenant units, operation of a central of OCIE, management of non-deployable installation programaterials. DS/GS support maintenance (Non-Tactical States), installation transportation offices, intra-installation rail movement of privately-owned household goods of military with assignment, reassignment, or termination of governing OSA and Watercraft. Laundry account funded Government of Coperated (GOCO), and Contractor Owned Contractor Operated (GOCO), and Contractor Owned Contractor for OCIE items to units IAW AR 210-130. Food acceptable of the programment of the contractor of the cont	loyable 6/8/2016 6/8/					
FY 2015 Plans: Transportation, Supply, Laundry, Food Service and Maintenance. include: Ammunition Supply Point services, secondary items and be operation of a central receiving point for goods delivered to the insinstallation property, and receipt, storage, issue, reutilization and tracking Support maintenance (Non-Tactical Support). Provides funding Supply Point services, secondary items and bulk petroleum for gar receiving point for goods delivered to the installation, management and receipt, storage, issue, reutilization and tracking of hazardous (Non-Tactical Support). Transportation includes the operation of traintra-installation rail equipment, and cost of leased vehicles; also in	bulk petroleum for garrison and non-brigade tenant units, stallation, management of OCIE, management of non-deptracking of hazardous materials. Maintenance includes DS of for installation supply operations which include: Ammunitation and non-brigade tenant units, operation of a central tof OCIE, management of non-deployable installation promaterials. Maintenance includes DS/GS support mainten	s/ ition pperty, pance					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: F	ebruary 2015	,	
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/ DW8 / Army Kwaja Services		r/ Name) jalein Atoll Installation		
B. Accomplishments/Planned Programs (\$ in Millions)		l l	FY 2014	FY 2015	FY 2016	
of government-furnished family housing when no PCS orders are issued Government Owned Government Operated (GOGO), Government Owned Contractor Operated (COCO) facilities that provide laundry and dry clea Food account funds the operation of Active, Guard, and Reserve dining including pay of government and contract employees, food service supp	ed Contractor Operated (GOCO), and Contractor Overling service for OCIE items to units IAW AR 210-13 facilities and Troop Issue Subsistence Activities (TIS)	vned 0.				
Transportation, Supply, Laundry, Food Service and Maintenance. Supplinclude: Ammunition Supply Point services, secondary items and bulk per operation of a central receiving point for goods delivered to the installation installation property, and receipt, storage, issue, reutilization and trackin DS/GS support maintenance (Non-Tactical Support). Will provide fundin Ammunition Supply Point services, secondary items and bulk petroleum of a central receiving point for goods delivered to the installation, managinstallation property, and receipt, storage, issue, reutilization and trackin support maintenance (Non-Tactical Support). Transportation will include transportation offices, intra-installation rail equipment, and cost of leased privately-owned household goods of military personnel (and civilian personately-owned household goods of military personnel (and civilian personated (GOCO), and Contractor Owned Contractor Operated (COCO for OCIE items to units IAW AR 210-130. Food account will fund the operand Troop Issue Subsistence Activities (TISA), including pay of government replacement equipment.	etroleum for garrison and non-brigade tenant units, on, management of OCIE, management of non-depling of hazardous materials. Maintenance to include any for installation supply operations which include any for garrison and non-brigade tenant units, operation gement of OCIE, management of non-deployable any of hazardous materials. Maintenance will include the operation of transportation motor pools, installated vehicles; also includes storage and movement of sonnel in overseas areas) in connection with assignment no PCS orders are issued. Excludes OSA and Operated (GOGO), Government Owned Contractor of facilities that provide laundry and dry cleaning serveration of Active, Guard, and Reserve dining facilities	oyable DS/GS tion nent,	40.005	40.005	40.00	
Title: Base Operations Support Description: Provides for Base Operations to ensure the health, safety families. Functions supported, Installation Management, Administrative a Services, Claims, Religious Support, Public Affairs, Equal Employment of and Occupational Health, Administrative Services, Program/Budget, Support, Memorandums of Agreement (MOU/MOA) Management, Management Analysis, Unaccompanied Allowance (TDA) Management, Management Analysis, Unaccompanied Management, Family Housing Management, Army Substance Abuse Prosports, Recreation, and Libraries, Business Operations, Schools, Fire and Allowance (TDA) Management, Army Substance Abuse Prosports, Recreation, and Libraries, Business Operations, Schools, Fire and Allowance (TDA) Management.	and Civil Law, Criminal Law and Discipline, Client Opportunity (EEO), Internal Review, Installation Safe pport Agreement/Memorandums of Understanding / Accounting, Installation Tables of Distribution and Personnel Housing and Basic Officers Quarters ogram, Army Community Services, Child and Youth	ety	48.885	40.685	40.82	

PE 0605301A: Army Kwajalein Atoll

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Exhibit B 24 BDT9E Brainst Justification, DD 2046 Army			Doto: E	obruon, 2016	
Exhibit R-2A, RDT&E Project Justification: PB 2016 Army	545 5 (0) 1 (0)			ebruary 2015	· · · · · · · · · · · · · · · · · · ·
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A I Army Kwajalein Atoll	DW8	Project (Number/Name) DW8 <i>I Army Kwajalein Atoll Installa</i> Services		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2014	FY 2015	FY 2016
Refuse Removal, Maintenance - Grounds, Electrical Services, He Other Utility Services, Compliance Programs, Conservation Progra Outdoor Pest Management, Physical Security, Law Enforcement S Management Support, Army Emergency Management Services, M Continuing Education, Command and Control (Emergency Disaste	ams, Pollution Prevention Programs, Indoor Pest Manage Services, Anti-Terrorism Services, Installation Security Pro Military Personnel Services, Civilian Personnel Services,	ment,			
Provided for Base Operations to ensure the health, safety and wel supported, Installation Management, Administrative and Civil Law, Religious Support, Public Affairs, Equal Employment Opportunity (Health, Administrative Services, Program/Budget, Support Agreen Agreement (MOU/MOA) Management, Management Accounting, Management, Management Analysis, Unaccompanied Personnel Housing Management, Army Substance Abuse Program, Army Coand Libraries, Business Operations, Schools, Fire and Emergency Maintenance - Grounds, Electrical Services, Heating/Cooling Serv Services, Compliance Programs, Conservation Programs, Pollutio Management, Physical Security, Law Enforcement Services, Anti-Support, Army Emergency Management Services, Military Person Command and Control (Emergency Disaster Prep), Host Nation S	, Criminal Law and Discipline, Client Services, Claims, (EEO), Internal Review, Installation Safety and Occupation ment/Memorandums of Understanding/Memorandums of Installation Tables of Distribution and Allowance (TDA) Housing and Basic Officers Quarters Management, Familianmunity Services, Child and Youth Sports, Recreation, Response Services, Custodial Services, Refuse Removatices, Water Services, Waste Water Services, Other Utility on Prevention Programs, Indoor Pest Management, Outdo Terrorism Services, Installation Security Program Management Services, Civilian Personnel Services, Continuing Education	nal y al, or Pest			
Provides for Base Operations to ensure the health, safety and well supported, Installation Management, Administrative and Civil Law, Religious Support, Public Affairs, Equal Employment Opportunity (Health, Administrative Services, Program/Budget, Support Agreem Agreement (MOU/MOA) Management, Management Accounting, Management, Management Analysis, Unaccompanied Personnel Housing Management, Army Substance Abuse Program, Army Coand Libraries, Business Operations, Schools, Fire and Emergency Maintenance - Grounds, Electrical Services, Heating/Cooling Serv Services, Compliance Programs, Conservation Programs, Pollutio Management, Physical Security, Law Enforcement Services, Anti-	, Criminal Law and Discipline, Client Services, Claims, (EEO), Internal Review, Installation Safety and Occupation ment/Memorandums of Understanding /Memorandums of Installation Tables of Distribution and Allowance (TDA) Housing and Basic Officers Quarters Management, Familifornmunity Services, Child and Youth Sports, Recreation, Response Services, Custodial Services, Refuse Removarices, Water Services, Waste Water Services, Other Utility on Prevention Programs, Indoor Pest Management, Outdo	nal y al, or Pest			

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PE 0605301A: Army Kwajalein Atoll Army Page 10 of 22 R-1 Line #135

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: F	ebruary 2015	
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A I Army Kwajalein Atoll	Project (Number/Name) DW8 I Army Kwajalein Atoll Installa Services			allation
B. Accomplishments/Planned Programs (\$ in Millions)		ı	FY 2014	FY 2015	FY 2016
Support, Army Emergency Management Services, Military Personn Command and Control (Emergency Disaster Prep), Host Nation Se		cation,			
FY 2016 Plans: Will provide for Base Operations to ensure the health, safety and w Functions supported, Installation Management, Administrative and Religious Support, Public Affairs, Equal Employment Opportunity (E Health, Administrative Services, Program/Budget, Support Agreemed Agreement (MOU/MOA) Management, Management Accounting, In Management, Management Analysis, Unaccompanied Personnel Housing Management, Army Substance Abuse Program, Army Corand Libraries, Business Operations, Schools, Fire and Emergency Maintenance - Grounds, Electrical Services, Heating/Cooling Services, Compliance Programs, Conservation Programs, Pollution Management, Physical Security, Law Enforcement Services, Anti-T Support, Army Emergency Management Services, Military Personn Command and Control (Emergency Disaster Prep), Host Nation Se	Civil Law, Criminal Law and Discipline, Client Services, CEO), Internal Review, Installation Safety and Occupation ent/Memorandums of Understanding /Memorandums of Installation Tables of Distribution and Allowance (TDA) dousing and Basic Officers Quarters Management, Family mmunity Services, Child and Youth Sports, Recreation, Response Services, Custodial Services, Refuse Removates, Water Services, Waste Water Services, Other Utility Prevention Programs, Indoor Pest Management, Outdoor Perrorism Services, Installation Security Program Manager el Services, Civilian Personnel Services, Continuing Edu	nal y il, or Pest			
Title: Medical Support			7.124	7.023	7.12
Description: Salaries for contractor, contractor oversight personne for all Medical functions to include inspections of Medical facilities a		sions			
FY 2014 Accomplishments: Funded salaries for contractor, contractor oversight personnel and pedical functions to include inspections of Medical facilities and cal		for all			
FY 2015 Plans: Salaries for contractor, contractor oversight personnel and personn functions to include inspections of Medical facilities and calibration	, , , , , , , , , , , , , , , , , , , ,	edical			
FY 2016 Plans: Will fund salaries for contractor, contractor oversight personnel and Medical functions to include inspections of Medical facilities and cal		for all			
	Accomplishments/Planned Programs Sul		102.152	74.898	

PE 0605301A: Army Kwajalein Atoll

Army

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Exhibit R-2A, RDT&E Project Justification: PB 2016 A	Army	Date: February 2015
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A I Army Kwajalein Atoll	Project (Number/Name) DW8 I Army Kwajalein Atoll Installation Services
C. Other Program Funding Summary (\$ in Millions)		
N/A		
<u>Remarks</u>		
D. Acquisition Strategy		
N/A		
E. Performance Metrics		
N/A		
• • • • • • • • • • • • • • • • • • • •		

Exhibit R-2A, RDT&E Project Ju	ıstification	: PB 2016 A	Army							Date: Febr	uary 2015	
					_		t (Number / Kwajalein A	•			ne) n Atoll Resto	ration And
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
DW9: Army Kwajalein Atoll Restoration And Modernization	-	0.576	1.964	12.820	-	12.820	11.927	21.320	24.701	2.039	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Army

Program was previously in a different Program Element/Project-665301-DX2.

A. Mission Description and Budget Item Justification

R Accomplishments/Planned Programs (\$ in Millions)

Funds the restoration and modernization of U.S. Army Kwajalein Atoll degraded infrastructure (real property/facilities) to working condition and upgrades facilities to meet minimum standards. Restoration consists of repair and replacement work to fix facilities damaged by inadequate sustainment and excessive age. Modernization supports upgrade of facilities to meet current codes, accomodate new functions, and/or replace building components that exceed the overall service life of the facilities. The proposed funding levels support a fraction of critical infrastructure restoration and modernization project work required/current analysis of infrastructure identified.

B. Accomplishments/Planned Programs (\$ in willions)	FY 2014	FY 2015	FY 2016	
Title: Facility Restoration / Modernization	0.576	1.964	12.820	
Description: Funding is provided for the following effort provides for updates and/or replacement of infrastructure critical to the mission and well being of the island tennants. Restores facilities at risk to the health and safety of the civilians, military, and families stationed on the island due to inadequate sustainment in past years.				
FY 2014 Accomplishments: Funding provided for updates and/or replacement of infrastructure critical to the mission and well being of the island tennants. Restores facilities at risk to the health and safety of the civilians, military, and families stationed on the island due to inadequate sustainment in past years.				
FY 2015 Plans: Funding provides for updates and/or replacement of infrastructure critical to the mission and well being of the island tennants. Will restore facilities currently at risk to the health and safety of the civilians, military, and families stationed on the island due to inadequate sustainment in past years.				
FY 2016 Plans:				

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EV 2044 EV 2045

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: F	ebruary 2015	5
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A I Army Kwajalein Atoll	•		Name) lein Atoll Res	toration And
B. Accomplishments/Planned Programs (\$ in Millions) Will provide for updates and/or replacement of infrastructure critical to the m restore facilities currently at risk to the health and safety of the civilians, milit inadequate sustainment in past years.	•		FY 2014	FY 2015	FY 2016
	Accomplishments/Planned Programs Sub	totals	0.576	1.964	12.820

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

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Exhibit R-2A, RDT&E Project Ju							Date: Febr	uary 2015				
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COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
DX2: Army Kwajalein Test Ranges and Mission Support	-	73.195	66.144	67.403	-	67.403	68.052	68.850	68.630	68.714	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Project DX2 was created in 2013 as allocation for 665301.DX2, realigned from 665301.614. USNS Worthy - shipyar ends in FY 2015.

A. Mission Description and Budget Item Justification

A. Mission Description and Budget Item Justification: Space and Missile Defense Command-Army Forces Strategic Command (USASMDC-ARSTRAT) Funding for management and contracting personnel support (salaries and travel) to enable the management of the test and evaluation of major Army and DoD missile systems for the Ronald Reagan Ballistic Missile Defense Test Site (RTS) will be funded by Project Element 665301.DX2 starting FY15. The mission has increased two-fold since the beginning of FY14. Previously funded for 3 work-years to provide contracting support but now the mission requires 6 work-years. The Headquarters, Army Material Command (HQ AMC) would receive these funds for contracting support missions to the U.S. Army Kwajalein Atoll (USAKA)/(RTS). The contracting support was transferred from USASMDC-ARSTRAT to the United States Army Contracting Command (subordinate command to HQ AMC) in FY 2013. RTS is a tenant on the US 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 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, space debris, and missile data collection experiments. RTS is a government-managed/contractoroperated (GMCO) site and is dependent upon its associated support contractors for operations and maintenance (O&M). Program funds drive civilian authorizations to accomplish the contracting support mission which provides 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 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 radar 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 and the Advanced Hypersonic

Exhibit R-2A, RD	T&E Project Justification: PB 2016 Army		Date: February 2015
Appropriation/B	udget Activity	R-1 Program Element (Number/Name	e) Project (Number/Name)
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			Mission Support

Weapon (Boost-Glide) technology development program; Air Force's Minuteman III ICBM and the Space and Missile Center's associated programs; MDA's Ballistic Missile Defense System, Flexible Target Family (FTF), and Layered Ballistic Missile Defense operational tests (including: PATRIOT, Terminal High-Altitude Area Defense (THAAD), and AEGIS weapon systems), and NASA's space experiments and Orbital Debris Measurement Programs.

NETCOM - The Network Enterprise Technology Command (NETCOM) funds Department of Army civilian pay, manpower service contracts, supporting IT equipment, and associated costs specifically identified and measurable to plan, manage, coordinate, and execute Information Technology Services Management. Provides Command, Control, Communications, Computers, and Information Management (C4IM) services in accordance with the DA PAM 25-1-1 and the Army C4IM Services List. Provides Base Communications Support (Service 701), Visual Information (Service 702), Information Assurance (Service 703), and Automation (Service 700). Includes the delivery of services consisting of secure and non-secure fixed voice communications, wireless voice, data and video connectivity services, and studio video conferencing services. Provides infrastructure support, including the design, installation, and maintenance of special circuits/systems in support of life safety/ security systems and monitoring/control systems. Provides Collaboration and Messaging Services including services and tools for workforce to communicate and share information. Provides Application and Web-hosting including operation and management services required to support web and application hosting. Provides Desktop Management Support including management and support for end-user hardware and software services and tools. Includes Service Desk Support, Continuity of Operations, and Disaster Recovery support.

Justification: Each of the baseline services provided with this funding are priority zero, must fund, IT utility requirements. Not funding or reducing the programmed funding will directly impact communications and mission command at all levels on Kwajalein Atoll.

Memorandum of Agreement (MOA) between USASMDC/ARSTRAT and NETCOM: The 16 August 2013 signed MOA between USASMDC/ARSTRAT and NETCOM formally transfers baseline C4IM functional Areas of Responsibility (Base Communications Support, Information Assurance, and Automation) to NETCOM. This MOA defines the roles and responsibilities between USASMDC/NETCOM as well as transfers all USAKA Network Enterprise Center missions, functions, and programmed resources to support execution of the baseline C4IM Services. Above baseline services will remain an SMDC responsibility to program and support.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Civilian Pay (RTS)	3.600	3.786	3.843
Description: Funding is provided for the following effort			
FY 2014 Accomplishments: Provided government personnel support (salaries, training, and travel, GPC) to enable the management of the test and evaluation of major Army and DoD missile systems.			
FY 2015 Plans: Continues to provide government personnel support (salaries, training, and travel, GPC) to enable the management of the test and evaluation of major Army and DoD missile systems.			
FY 2016 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: F	ebruary 2015	
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A I Army Kwajalein Atoll	Project (Nu DX2 I Army Mission Sup	Kwajal	lame) ein Test Rang	ges and
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2014	FY 2015	FY 2016
Will continue to provide government personnel support (salaries, requirements) to enable the management of the test and evaluation		()			
Title: TDY/Training/Supplies - Military and Civilian			0.200	0.277	0.28
Description: Funding is provided for the following effort					
FY 2014 Accomplishments: Provided government personnel support (training, and travel, GP0 Army and DoD missile systems.	C) to enable the management of the test and evaluation of	major			
FY 2015 Plans: Continues to provide government personnel support (training, and evaluation of major Army and DoD missile systems.	d travel, GPC) to enable the management of the test and				
FY 2016 Plans: Will continue to provide government personnel support (training, a evaluation of major Army and DoD missile systems.	and travel, GPC) to enable the management of the test and	1			
Title: Outside Obligations/Other Government Agencies			4.600	4.319	4.38
Description: Funding is provided for the following effort					
FY 2014 Accomplishments: Provideds support to test and evaluation of major Army and DoD	missile systems.				
FY 2015 Plans: Continue to provide support to test and evaluation of major Army	and DoD missile systems.				
FY 2016 Plans: Will continue to provide support to test and evaluation of major Ar	rmy and DoD missile systems.				
Title: Fiber Optic Cable (Kwajalein Cable System)			12.300	12.513	12.56
Description: Funding is provided for the following effort					
FY 2014 Accomplishments: Provided funding for lease of the Kwajalein Cable System (KCS) to backup satellite.	fiber optic cable between Kwajalein Island and Guam, and	for			
FY 2015 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: F	ebruary 2015	1	
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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016	
Continues to provide funding for lease of the Kwajalein Cable S Guam, and for backup satellite.	ystem (KCS) fiber optic cable between Kwajalein Island and				
FY 2016 Plans: Will continue to provide funding for lease of the KCS fiber optic satellite.	cable between Kwajalein Island and Guam, and for backup				
Title: RTS Contractor Prime Pay (KRS)		35.285	12.611	18.74	
Description: Funding is provided for the following effort					
FY 2014 Accomplishments: Provided technical Operations and Maintenance (O&M) support systems engineering, flight safety, launch ordnance, Kwajalein I capability of the Range to support test and space missions. FY 2015 Plans: Continues to provide technical Operations and Maintenance (Oderations)	Mobile range Safety System (WORTHY, etc) to assure the &M) support (test planning, instrumentation operations and				
maintenance, systems engineering, flight safety, launch ordnan- assure the capability of the Range to support test and space mis					
FY 2016 Plans: Will continue to provide technical O&M support (test planning, ir flight safety, launch ordnance, Kwajalein Mobile range Safety Support test and space missions.					
Title: Contractor Material		6.610	5.958	6.48	
Description: Funding is provided for the following effort					
FY 2014 Accomplishments: Provided critical non-labor materials to maintain critical range ca	apabilities and prevent obsolescence in support of test operat	ions.			
FY 2015 Plans: Continues to provide critical non-labor materials to maintain critical operations.	cal range capabilities and prevent obsolescence in support o	f test			
FY 2016 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: Fe	ebruary 2015	
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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2014	FY 2015	FY 2016
Will continue to provide critical non-labor materials to maintain critical ran test operations.	ge capabilities and prevent obsolescence in suppo	ort of			
Title: FFRDC Contractor Pay (MIT/LL)			7.000	4.602	4.68
Description: Funding is provided for the following effort					
FY 2014 Accomplishments: Provided technical advice to RTS leadership in support of Range operation technology.	ons, strategic planning, and technical execution of	critical			
FY 2015 Plans: Continues to provide technical advice to RTS leadership in support of Ratexecution of critical technology.	nge operations, strategic planning, and technical				
FY 2016 Plans: Will continue to provide technical advice to RTS leadership in support of execution of critical technology.	Range operations, strategic planning, and technica	ıl			
Title: Contractor Pay Meteorological			2.000	3.786	1.92
Description: Funding is provided for the following effort					
FY 2014 Accomplishments: Provided support for sustained weather sensing capabilities, including we critical data to test planning and execution.	eather reporting via radar data. This capability prov	vides			
FY 2015 Plans: Continues to provide support for sustained weather sensing capabilities, i capability provides critical data to test planning and execution.	including weather reporting via radar data. This				
FY 2016 Plans: Will continue to provide support for sustained weather sensing capabilitie capability provides critical data to test planning and execution.	s, including weather reporting via radar data. This				
Title: Ground Transportation			1.300	1.446	1.490
Description: Funding is provided for the following effort					
FY 2014 Accomplishments:					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: F	ebruary 2015	1
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A <i>I Army Kwajalein Atoll</i>	DX2 I Arm	Project (Number/Name) DX2 I Army Kwajalein Test Ranges and Mission Support		ges and
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2014	FY 2015	FY 2016
Provided mission specific material and passenger transportation via air (A Kwajalein Atoll and CONUS.	Air Mobility Command) and sea (SDDC) between				
FY 2015 Plans: Continues to provide mission specific material and passenger transportat between Kwajalein Atoll and CONUS	tion via air (Air Mobility Command) and sea (SDDC)			
FY 2016 Plans: Will continue to provide mission specific material and passenger transport between Kwajalein Atoll and CONUS	rtation via air (Air Mobility Command) and sea (SDI	DC)			
Title: Mission Specific Environmental			0.300	0.310	0.31
Description: Funding is provided for the following effort					
FY 2014 Accomplishments: Provided the capability to assess and maintain the Range readiness and	compliance with environmental requirements.				
FY 2015 Plans: Continues to provide the capability to assess and maintain the Range rea	adiness and compliance with environmental require	ments.			
FY 2016 Plans: Will continue to provide the capability to assess and maintain the Range requirements.	readiness and compliance with environmental				
Title: USNS Worthy - Shipyard			-	4.000	-
Description: Funding is provided for the following effort					
FY 2015 Plans: Addresses obsolescence and maintenance requirements in support of up	ocoming test missions.				
Title: Network Enterprise Technology Command (NETCOM) C4IM			-	12.536	12.68
Description: Funding is provided for the following effort					
FY 2015 Plans: NETCOM - The Network Enterprise Technology Command (NETCOM) fu contracts, supporting IT equipment, and associated costs specifically idea and execute Information Technology Services Management. Provides C	ntified and measurable to plan, manage, coordinate) ,			

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: February 2015			
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A I Army Kwajalein Atoll	Project (Number/Name) DX2 I Army Kwajalein Test Ranges a Mission Support		ges and		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2014	FY 2015	FY 2016	
Information Management (C4IM) services in accordance with the DA PAM 25-1-1 and the Army C4IM Services List. Provides Base Communications Support (Service 701), Visual Information (Service 702), Information Assurance (Service 703), and Automation (Service 700). Includes the delivery of services consisting of secure and non-secure fixed voice communications, wireless voice, data and video connectivity services, and studio video conferencing services. Provides infrastructure support, including the design, installation, and maintenance of special circuits/systems in support of life safety/security systems and monitoring/control systems. Provides Collaboration and Messaging Services including services and tools for workforce to communicate and share information. Provides Application and Web-hosting including operation and management services required to support web and application hosting. Provides Desktop Management Support including management and support for end-user hardware and software services and tools. Includes Service Desk Support, Continuity of Operations, and Disaster Recovery support. Justification: Each of the baseline services provided with this funding are priority zero, must fund, IT utility requirements. Not funding or reducing the programmed funding will directly impact communications and mission command at all levels on Kwajalein Atoll.						
FY 2016 Plans: NETCOM - The Network Enterprise Technology Command (NET service contracts, supporting IT equipment, and associated costs coordinate, and execute Information Technology Services Manag Computers, and Information Management (C4IM) services in acculist. Will provide Base Communications Support (Service 701), \(\text{(Service 703)}\), and Automation (Service 700). Will include deliver communications, wireless voice, data and video connectivity servinfrastructure support, including the design, installation, and main	specifically identified and measurable to plan, manage, pement. Will provide Command, Control, Communications, ordance with the DA PAM 25-1-1 and the Army C4IM Serv/isual Information (Service 702), Information Assurance by of services consisting of secure and non-secure fixed voices, and studio video conferencing services. Will provide	rices				

C. Other Program Funding Summary (\$ in Millions)

communications and mission command at all levels on Kwajalein Atoll.

N/A

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security systems and monitoring/control systems. Will rovide Collaboration and Messaging Services including services and tools for workforce to communicate and share information. Will provide Application and Web-hosting including operation and management services required to support web and application hosting. Will provide Desktop Management Support including management and support for end-user hardware and software services and tools. To include Service Desk Support, Continuity of Operations, and Disaster Recovery support. Justification: Each of the baseline services to be provided with this funding are priority zero, must fund, IT utility requirements. Not funding or reducing the programmed funding will directly impact

R-1 Line #135

73.195

66.144

67.403

Accomplishments/Planned Programs Subtotals

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C. Other Program Funding Summary (\$ in Millions) Remarks		
D. Acquisition Strategy N/A		
E. Performance Metrics N/A		