

**UNCLASSIFIED**

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0603308A / Army Space Systems Integration							
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	-	32.278	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	32.278
990: Space And Missile Defense Integration	-	12.638	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	12.638
EB7: Army Space System Enhancement/Integration	-	19.640	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	19.640

**Note**

- Beginning in FY2018 all project 990 funds will transfer to PE 1206308A, Project FE5.
- Beginning in FY2018 all project EB7 funds transition to PE 1206308A project FE6 and PE 1205117A project FG3.

**A. Mission Description and Budget Item Justification**

The program element funds space systems integration efforts performed by the US Army Space and Missile Defense Command/ Army Forces Strategic Command (USASMDC/ARSTRAT) and the Program Executive Office for Intelligence, Electronic Warfare (PEO IEW&S).

Project EB7 - PEO IEW&S/USASMDC/ARSTRAT: Details of this program are reported in accordance with Title 10, United States Code, Section 119 (a)(1).

Project 990 funds USASMDC/ARSTRAT to integrate warfighting concepts and technologies, validate concepts, and identify capabilities needed to implement the validated concepts, and develop DOTMLPF solutions to realize those space and high altitude related capabilities. Provide engineering support to the Joint Friendly Force Tracking (J-FFT) Mission Management Center (MMC) through an associated test-bed for both operational and developmental injection and integration of real-time J-FFT information into the Common Operating Picture (COP) for Combatant Commanders (COCOMs), Joint Task Forces (JTFs), and Coalition Partners. The MMC injects real-time J-FFT information into the COP for COCOMs, JTFs and Coalition partners. USSTRATCOM, in accordance with CJCSI 3910.01 (reference V.4.) is designated one of three coordinating agencies for J-FFT within DoD. CJCSI 3910.01 directs eight Force Modernization tasks to USSTRATCOM. USSTRATCOM SI 534-5 (reference V.6.) and annually published USSTRATCOM operations orders have designated USASMDC/ARSTRAT as the lead USSTRATCOM component command for Friendly Force Tracking (FFT).

**UNCLASSIFIED**

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army				Date: February 2018	
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0603308A / Army Space Systems Integration			
B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	32.431	0.000	0.000	-	0.000
Current President's Budget	32.278	0.000	0.000	-	0.000
Total Adjustments	-0.153	0.000	0.000	-	0.000
• Congressional General Reductions	-0.002	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.151	-			
Change Summary Explanation					
-Beginning in FY 2018 all project 990 funds will transfer to PE 1206308A, Project FE5.					
-Beginning in FY 2018 all project EB7 funds transition to PE 1206308A project FE6 and PE 1205117A project FG3.					

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603308A / Army Space Systems Integration				Project (Number/Name) 990 / Space And Missile Defense Integration			
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
990: Space And Missile Defense Integration	-	12.638	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	12.638
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note Beginning in FY 2018 project transitions to PE 120630A Project FE5												
A. Mission Description and Budget Item Justification USASMDC/ARSTRAT: Headquarters, Department of the Army General Order 37, dated 16 October 2006, designated USASMDC/ARSTRAT as the Army proponent for space and ground-based midcourse defense (GBMD), the Army integrator for global missile defense, and the Army Service Component Command (ASCC) of the U.S. Strategic Command (USSTRATCOM). Army Regulation (AR) 10-87 Army Commands, Army Service Component Commands, and Direct Reporting Units, dated 4 September 2007 and AR 5-22 The Army Force Modernization Proponent System dated 19 August 2009 designate USASMDC/ARSTRAT as the Army specified proponent for Global Missile Defense and Space/High Altitude capabilities. As the Army proponent for space, high altitude and GMD, USASMDC/ARSTRAT develops warfighting concepts, conducts warfighting experiments to validate those concepts, identifies capabilities needed to implement the validated concepts, and develops Doctrine, Organizations, Training, Material, Leadership & Education, Personnel, Facilities and Policy (DOTMLPF-P) solutions to realize the GBMD capabilities. As the Army integrator for global missile defense, USASMDC/ARSTRAT is responsible for reviewing programs managed by the Army, other Services, Defense agencies and National agencies to ensure that they are correctly synchronized and will ultimately provide the capabilities required by USSTRATCOM to execute its global missile defense responsibilities.  Project 990 funds United States Army Space and Missile Command/Army Strategic Command (USASMDC/ARSTRAT) efforts to develop, analyze and mature warfighting concepts, and conduct warfighting experiments for space and high altitude capabilities. The program also funds development and integration of new data sources and data services into the Joint Friendly Force Tracking Mission Management Center. The Mission Management Center (MMC) injects real-time Joint Friendly Force Tracking (J-FFT) information into the Common Operating Picture for Combatant Commands (COCOMs), Joint Task Forces (JTFs) and Coalition partners. USASMDC/ARSTRAT is the proponent for space / high altitude capabilities and is responsible for determining and integrating Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel and Facilities (DOTMLPF-P) for the Army.  USSTRATCOM, in accordance with CJCSI 3910.01 (reference V.4.) is designated one of three coordinating agencies for J-FFT within DOD. CJCSI 3910.01 directs eight Force Modernization tasks to USSTRATCOM. USSTRATCOM SI 534-5 (reference V.6.) and annually published USSTRATCOM operations orders have designated USASMDC/ARSTRAT as the lead USSTRATCOM component command for J-FFT.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2017	FY 2018	FY 2019	
Title: Architecture Development, Wargames and Demonstrations									8.635	-	-	

# UNCLASSIFIED

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2019 Army		<b>Date:</b> February 2018	
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603308A / Army Space Systems Integration	<b>Project (Number/Name)</b> 990 / Space And Missile Defense Integration	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2017</b>	<b>FY 2018</b>
<b>Description:</b> Funding is provided for the following efforts			
<b>Title:</b> Joint Friendly Force Tracking (J-FFT) Testbed		4.003	-
<b>Description:</b> Funding is provided for the following efforts			
<b>Accomplishments/Planned Programs Subtotals</b>		12.638	-
<b>C. Other Program Funding Summary (\$ in Millions)</b>			
N/A			
<b>Remarks</b>			
<b>D. Acquisition Strategy</b>			
Not applicable for this effort.			
<b>E. Performance Metrics</b>			
N/A			

## UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army												Date: February 2018			
Appropriation/Budget Activity 2040 / 4						R-1 Program Element (Number/Name) PE 0603308A / Army Space Systems Integration				Project (Number/Name) 990 / Space And Missile Defense Integration					
Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Enhancement of J-FFT	C/CPFF	Colorado Springs : Colorado	30.866	3.975		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			30.866	3.975		-		-		-		-	Continuing	Continuing	N/A
Remarks															
The prime contractor was awarded a task order contract in September 2006. Multiple follow-on task orders have been awarded under this contract since award of the basic contract. All current task orders are scheduled to expire by the end of FY16.															
Support (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
GOVT SUPPORT & SUPPORT CONTRACTS	C/CPFF	Various in Colorado Springs CO, Washington DC, and Huntsville AL : Various	126.945	8.663		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			126.945	8.663		-		-		-		-	Continuing	Continuing	N/A
Remarks															
The prime contractor was awarded a task order contract in September 2006. Multiple follow-on task orders have been awarded under this contract since award of the basic contract. All current task orders are scheduled to expire by the end of FY16.															
			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			157.811	12.638		0.000		-		-		-	Continuing	Continuing	N/A
Remarks															

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2019 Army</b>			<b>Date:</b> February 2018		
<b>Appropriation/Budget Activity</b> 2040 / 4		<b>R-1 Program Element (Number/Name)</b> PE 0603308A / Army Space Systems Integration		<b>Project (Number/Name)</b> 990 / Space And Missile Defense Integration	

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Development/synchronization of Army space and BMD DOTMLPP																												
Provide 24/7 support to Friendly Force Tracking.																												
Jericho Thunder Analysis Support																												
SMDC NanoSat Analysis (SNAP, KE)																												
Cyber Impacts on Space Capabilities																												
Space Superiority Joint Architecture Analysis																												
Force Design Assessment of Army Forces																												
Operational Implications to the Joint Warfighter of Islamic State c																												
Army Space Aggressors in Support of Readiness																												
NAVWAR/PNT in a Denied Environment																												
Implications of the Emerging "Third" Offset Strategy for SMDC Space																												
Surveillance and Reconnaissance (S&R) Small-Satellites																												
Small-Satellites for Data Proliferation in Direct Warfighter Suppo																												

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2019 Army</b>			<b>Date:</b> February 2018		
<b>Appropriation/Budget Activity</b> 2040 / 4		<b>R-1 Program Element (Number/Name)</b> PE 0603308A / Army Space Systems Integration		<b>Project (Number/Name)</b> 990 / Space And Missile Defense Integration	

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Narrowband Consolidated SATCOM System																												
Army Requirements for Space Situational Awareness (SSA)																												
Analysis of Tactical Army Space Situational Awareness																												
JCIDS work on JTAGS Transition ORD into a CPD																												
Space Superiority Capability Production Document																												
Kestral Eye Requirement Development																												
Space Simulation Support to TRADOC ARCIC Experimentation																												
Common Ground Station Operating Concept and Requirement Docum																												
NAVWAR Characterization Operating Concept and Requirement																												
JFFT Capability Development Document																												
High Altitude Peersistent Platform Initial or Capability Developme																												
NAVWAR/PNT in Denied Environment																												

# UNCLASSIFIED

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2019 Army			<b>Date:</b> February 2018
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603308A / Army Space Systems Integration	<b>Project (Number/Name)</b> 990 / Space And Missile Defense Integration	

## Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Development/synchronization of Army space and BMD DOTMLPF solutions.	1	2015	4	2017
Provide 24/7 support to Friendly Force Tracking.	1	2016	4	2017
Integrate KeyMaker into FFT	1	2016	4	2016
Jericho Thunder Analysis Support	1	2015	4	2017
SMDC NanoSat Analysis (SNAP, KE)	1	2015	4	2017
Cyber Impacts on Space Capabilities	3	2016	2	2017
Space Superiority Joint Architecture Analysis	1	2015	4	2017
Force Design Assessment of Army Forces	3	2016	3	2017
Operational Implications to the Joint Warfighgter of Islamic State of Iraq	1	2017	4	2017
Army Space Aggressors in Support of Readiness	1	2017	4	2017
NAVWAR/PNT in a Denied Environment	1	2017	4	2017
Implications of the Emerging "Third" Offset Strategy for SMDC Space	3	2017	4	2017
Surveillance and Reconnaissance (S&R) Small-Satellites	3	2016	2	2017
Small-Satellites for Data Proliferation in Direct Warfighter Support	3	2016	2	2017
Narrowband Consolidated SATCOM System	3	2016	2	2017
Army Requirements for Space Situational Awareness (SSA)	4	2016	3	2017
Analysis of Tactical Army Space Situational Awareness	4	2016	3	2017
JCIDS work on JTAGS Transition ORD into a CPD	3	2016	4	2017
Space Superiority Capability Production Document	4	2015	2	2017
Kestral Eye Requirement Development	1	2017	4	2017
Space Simulation Support to TRADOC ARCIC Experimentation	1	2015	4	2017
ARGOS operating Concept and Requirement Document	2	2016	2	2016

**UNCLASSIFIED**

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army			Date: February 2018	
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603308A / Army Space Systems Integration		Project (Number/Name) 990 / Space And Missile Defense Integration	

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603308A / Army Space Systems Integration				Project (Number/Name) EB7 / Army Space System Enhancement/ Integration			
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
EB7: Army Space System Enhancement/Integration	-	19.640	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	19.640
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

**Note**

Funding transferred from PE 0603308A project EB7 transition to PE 1206308A project FE6 and PE 1205117A project FG3 beginning in FY 2018.

The details of this program are reported in accordance with Title 10, United States Code, Section 119(a)(1).

Funding line is shared between USA Space and Missile Defense Command (SMDC) and Program Executive Office Intelligence, Electronic Warfare and Sensors (PEO IEW&S) starting in FY2018. Funding transferred from PE 0603308A project EB7 transition to PE 1206308A project FE6 and PE 1205117A project FG3 beginning in FY 2018.