

# UNCLASSIFIED

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2019 Army **Date:** February 2018

<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)					<b>R-1 Program Element (Number/Name)</b> PE 0605766A / National Capabilities Integration (MIP)							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	-	4.955	6.882	12.340	-	12.340	11.435	9.177	13.182	12.554	0.000	70.525
DX9: National Integration To Tactical Systems(MIP)	-	4.955	2.820	9.060	-	9.060	8.090	5.723	6.683	5.925	0.000	43.256
EX7: Air Vigilance System Development	-	0.000	4.062	3.280	-	3.280	3.345	3.454	6.499	6.629	0.000	27.269

## Note

In FY 2018, PE 0605766A 'National Capabilities Integration (MIP) funds realign into two (2) separate projects:

- (1) Project DX9 National Integration To Tactical Systems (MIP)
- (2) Project EX7 Air Vigilance System Development

All funding is in support of the ACTIVE COMPONENT

## A. Mission Description and Budget Item Justification

National Integration to Tactical Systems provides centralized monitoring and synchronization by the Army's Tactical Exploitation of National Capabilities (TENCAP) office, for the transition and integration of proven advanced technologies, prototypes and standards developed by the National Intelligence Community (IC) into Army systems and Programs of Record. This Program Element includes System Development and Integration funds for the Air Vigilance Program of Record (POR). It also enables efficient use and oversight of system development funds for final stage integration, development, and testing of successful technologies and prototypes to advance, or make compliant, Army systems and Programs of Record that have or use National capabilities.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>
Previous President's Budget	4.955	6.882	9.804	-	9.804
Current President's Budget	4.955	6.882	12.340	-	12.340
Total Adjustments	0.000	0.000	2.536	-	2.536
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments 1	-	-	2.536	-	2.536

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PE 0605766A: *National Capabilities Integration (MIP)*  
Army

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605766A / National Capabilities Integration (MIP)				Project (Number/Name) DX9 / National Integration To Tactical Systems(MIP)			
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
DX9: National Integration To Tactical Systems(MIP)	-	4.955	2.820	9.060	-	9.060	8.090	5.723	6.683	5.925	0.000	43.256
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

National Integration to Tactical Systems provides for centralized monitoring and synchronization by the Army's Tactical Exploitation of National Capabilities (TENCAP) office for the transition and integration of new, updated, and emerging National Intelligence Community (IC) technologies, capabilities, and standards into Programs of Record across the Army to: (1) maintain operational relevance of Army programs and address changes in technology and the threat, (2) ensure Army programs maintain interoperability with and access to the National community architecture and systems, and (3) advance Army ability to conduct analysis and tasking, collection, processing, exploitation, dissemination and feedback (TCPEDF) of intelligence data.

FY 2019 Base funding in the amount of \$9.060 million provides integration funds for 3 validated National Intel Community (IC) effort: (1) Army TNG Integration, \$3.024 million funds the continued efforts to ensure Army Programs of Record are in compliance to the National standard for Airborne Overhead Cooperative Operations/Theater Net-Centric Geolocation (AOCO/TNG), per the Joint Requirement (JROCM 101-10); (2) AMDAS-Next, \$3.500 million funds the system development and integration efforts on the AMDAS-Next; and (3) TENCAP Radio Frequency Exploitation (TRFE), \$2.536 million funds the system development and integration efforts on the prototype kit.

**B. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>
<b>Title:</b> Advanced Air Vigilance (AV) capabilities	2.352	-	-
<b>Description:</b> Advanced development, modifications and changes to the Air Vigilance (AV) system software.			
<b>Title:</b> Army TNG Integration - Airborne Overhead Cooperative Operations (AOCO) / Theater Net-Centric Geolocation (TNG)	2.603	2.820	3.024
<b>Description:</b> National Intelligence Community (IC) standard for interoperability and use of specific intelligence networked capabilities.			
<b>FY 2018 Plans:</b> Provides funds to specified Army Programs of Record (PORs) for final-stage software development and integration efforts, ensuring their compliance to the National requirement and standards that enables these PORs to be interoperable within this National Intelligence Community (IC) "Theater Net-Centric Geolocation (TNG)" network for joint tactical use and improved Army battlefield awareness. (ref. CJCSI 32450.61, AOCO 13Jan2012)			
<b>FY 2019 Plans:</b>			

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army			Date: February 2018	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605766A / National Capabilities Integration (MIP)	Project (Number/Name) DX9 / National Integration To Tactical Systems(MIP)		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019
Provides funds to specified Army Programs of Record (PORs) for final-stage software development and integration efforts, ensuring their compliance to the National requirement and standards that enables these PORs to be interoperable within this National Intelligence Community (IC) "Theater Net-Centric Geolocation (TNG)" network for joint tactical use and improved Army battlefield awareness. (ref. CJCSI 32450.61, AOCO 13Jan2012)  <b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> Additional quantity of Army sensors to be made compliant to TNG standards and interoperable.				
<b>Title:</b> AMDAS-Next  <b>Description:</b> System development and integration of the prototype Advanced Miniaturized Data Acquisition System 'AMDAS - Next', the subsystem that provides national data to the tactical warfighter via intelligence community partners classified national systems.  <b>FY 2019 Plans:</b> Provides for the initial system integration and interoperability testing of the prototype subsystem AMDAS - Next as part of the Army's common intel architecture and operations, and as sensor-data ingest for Army Distributed Common Ground System (DCGS-A) program.  <b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> Previously funded as Advanced Development (BA 6.4 RDTE) level efforts progressing to System Development efforts.		-	-	3.500
<b>Title:</b> TENCAP Radio Frequency Exploitation (TRFE)  <b>Description:</b> New prototype capability kit that targets modern digital communications systems employed by near-peer nation states armies and assist with Battlespace RF Characterization for modern communication environments with the intent to synchronize SIGINT, Cyber and Electronic Warfare operations. Utilizes commercial industry components and architectures to minimize hardware costs, risk and maximizes scalability/modularity.  <b>FY 2019 Plans:</b> Initial integration of TRFE cognitive software based Electronic Warfare and Cyber Attack prototype capability focused on countering Peer State and modern communication targets and threats.  <b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> Initiates funds for system development and integration of TENCAP Radio Frequency Exploitation (TFRE) efforts ready for transition		-	-	2.536
Accomplishments/Planned Programs Subtotals		4.955	2.820	9.060

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army									Date: February 2018		
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0605766A / National Capabilities Integration (MIP)			Project (Number/Name) DX9 / National Integration To Tactical Systems(MIP)				
C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• 0603766A: Tactical Support Development - Adv Dev (MIP), PE 643766	15.730	27.733	35.667	-	35.667	37.731	31.179	34.201	36.169	0.000	218.410
Remarks											
D. Acquisition Strategy											
<p>The 'National Integration To Tactical Systems (Military Intelligence Program - MIP)' funds provide for transition and integration of National Intelligence Community (IC) advanced technologies and prototypes leveraged by the Army's Tactical Exploitation of National Capabilities (TENCAP) program office. The Army TENCAP acquisition strategy is driven by an annual TENCAP General Officer Steering Group (TGOSG), co-chaired by the Army G2; Army G8; and the Military Deputy to the Assistant Secretary of the Army for Acquisition, Logistics, and Technology [ASA(ALT)]; and includes representatives from the Army G3; Army G6; Army Training and Doctrine Command (TRADOC); and the Program Executive Office for Intelligence, Electronic Warfare and Sensors (PEO IEW&amp;S). The TGOSG reviews, validates, prioritizes, and guides Army TENCAP efforts, according to Army and Defense strategy. Based on this TGOSG guidance, Army TENCAP invests BA 6.4 RDTE in Intelligence Community (IC) developments during the more cost-effective advanced development phase to ensure Army requirements are met with minimal redundancy with Army investments. Army TENCAP then uses BA 6.5 RDTE to manage the transition of these advanced development efforts through system development and integration into Army Programs of Record (POR). This strategy ensures these leveraged investments remain viable through multiple budget cycles, significantly increasing successful transition to recipient Army POR. Army TENCAP facilitates the continued access to National Intel Community (IC) 'joint' efforts and compatibility with those National standards and software baseline for those Army PORs that benefit from these leveraged National IC technologies, resulting in cost-savings through cost-sharing, and Army participation in collaborative Intelligence. Funds will be used for final-stage integration efforts identified and vetted through the Army TENCAP annual TGOSG, such as: advanced Air Vigilance software enhancements; POR sensor integration into the Theater Net-Centric Geolocation network; integration of the future Advanced Miniaturized Data Acquisition System (AMDAS - Next) capability into PM DCGS-A family of systems and operational concepts; transition and integration of Army TENCAP technologies discovered and leveraged by the annual Military Exploitation of Reconnaissance and Intelligent Technology (MERIT) project selection process, as well as other transitioning technologies discovered and/or leverage through other joint TENCAP outreach efforts.</p>											
E. Performance Metrics											
N/A											

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2019 Army</b>												<b>Date: February 2018</b>			
<b>Appropriation/Budget Activity</b> 2040 / 5						<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>						<b>Project (Number/Name)</b> DX9 / <i>National Integration To Tactical Systems(MIP)</i>			
<b>Management Services (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
AV POR Matrix Engineers	MIPR	Classified : Alexandria, VA	0.603	0.660	Jan 2017	-		-		-		-	0.000	1.263	Continuing
AV POR Intel Engineers, PM Support	C/FFPLOE	Engility Corp : Chantilly, VA	2.140	-		-		-		-		-	0.000	2.140	Continuing
TNG Engineers	MIPR	Multiple : Multiple	-	-		0.420		0.913	Jan 2019	-		0.913	0.000	1.333	Continuing
<b>Subtotal</b>			2.743	0.660		0.420		0.913		-		0.913	0.000	4.736	N/A
<b>Remarks</b> Activities for AV POR realign to Project EX7 in FY18.															
<b>Product Development (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Air Vigilance (AV) software updates and integration	MIPR	Classified : Classified	14.541	0.612	Jan 2017	-		-		-		-	0.000	15.153	Continuing
TNG for Multiple Army PORs	MIPR	Multiple : Multiple	24.370	2.603	Jan 2017	1.905		4.782		-		4.782	0.000	33.660	Continuing
TRFE	MIPR	Classified : Classified	-	-		-		2.336	Jan 2019	-		2.336	0.000	2.336	Continuing
<b>Subtotal</b>			38.911	3.215		1.905		7.118		-		7.118	0.000	51.149	N/A
<b>Support (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Air Vigilance (AV) PM Dir costs - Gov, travel, etc.	Allot	Army TENCAP : Alexandria, VA	3.709	0.830	Jan 2017	-		-		-		-	0.000	4.539	Continuing
TNG Support Costs	Allot	PEO IEW&S/PM SAI : Aberdeen Proving Grounds, MD	-	-		0.240		0.554		-		0.554	0.000	0.794	Continuing

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2019 Army</b>													<b>Date:</b> February 2018		
<b>Appropriation/Budget Activity</b> 2040 / 5						<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>				<b>Project (Number/Name)</b> DX9 / <i>National Integration To Tactical Systems(MIP)</i>					
<b>Support (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Subtotal</b>			3.709	0.830		0.240		0.554		-		0.554	0.000	5.333	N/A
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
AV POR testing	MIPR	Classified : Classified	1.580	0.250	Jan 2017	-		-		-		-	0.000	1.830	Continuing
TNG Test and Evaluation	MIPR	Multiple : Multiple	-	-		0.255		0.275		-		0.275	0.000	0.530	Continuing
TRFE	MIPR	Classified : Classified	-	-		-		0.200	Apr 2019	-		0.200	0.000	0.200	Continuing
<b>Subtotal</b>			1.580	0.250		0.255		0.475		-		0.475	0.000	2.560	N/A
			<b>Prior Years</b>	<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			46.943	4.955		2.820		9.060		-		9.060	0.000	63.778	N/A
<b>Remarks</b>															

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**Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army**

Date: February 2018

**Appropriation/Budget Activity**

2040 / 5

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PE 0605766A / National Capabilities

### Integration (MIP)

Project (Number/Name)	Start Date	End Date	Status	Manager	Budget (USD)	Actual Cost (USD)	Progress (%)	Risk Level	Notes
101	2023-01-15	2023-03-31	Completed	John Doe	150000	148000	100	Low	Project completed ahead of schedule.
102	2023-02-01	2023-05-15	In Progress	Jane Smith	220000	180000	80	Medium	Minor delays in procurement.
103	2023-03-01	2023-06-30	On Hold	Mike Johnson	180000	0	0	High	Waiting for client approval.
104	2023-04-01	2023-07-31	Planned	Sarah Lee	200000	0	0	Medium	Initial planning phase.
105	2023-05-01	2023-08-31	On Hold	David Kim	160000	0	0	Low	Resource allocation pending.
106	2023-06-01	2023-09-30	Planned	Emily White	190000	0	0	Medium	Market research in progress.
107	2023-07-01	2023-10-31	Planned	Chris Brown	210000	0	0	Medium	Vendor selection ongoing.
108	2023-08-01	2023-11-30	Planned	Alex Green	170000	0	0	Low	Feasibility study phase.
109	2023-09-01	2023-12-31	Planned	Mia Black	185000	0	0	Medium	Initial design phase.
110	2023-10-01	2024-01-31	Planned	Noah Grey	205000	0	0	Medium	Requirement gathering.
111	2023-11-01	2024-02-28	Planned	Liam Silver	195000	0	0	Low	Concept development.
112	2023-12-01	2024-03-31	Planned	Olivia Gold	215000	0	0	Medium	Market analysis phase.

## DX9 / National Integration To Tactical

*Systems(MIP)*

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605766A / National Capabilities Integration (MIP)	Project (Number/Name) DX9 / National Integration To Tactical Systems(MIP)

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Theater Net-centric Geolocation (TNG) Interoperability Standards	2	2014	1	2023
AMDAS Next Integration into PM DCGS-A Family of Systems	2	2019	4	2021
TRFE Prototype Integration Effort	2	2019	1	2024

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605766A / National Capabilities Integration (MIP)				Project (Number/Name) EX7 / Air Vigilance System Development			
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
EX7: Air Vigilance System Development	-	0.000	4.062	3.280	-	3.280	3.345	3.454	6.499	6.629	0.000	27.269
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

The FY 2018 funds realigned from Project DX9 'National Integration To Tactical Systems(MIP) to Project EX7 'Air Vigilance System Development'.

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

Air Vigilance systems are a software based solution that collect critical intelligence data on emerging threat aerial systems. The intelligence data provides early warning of operations in restricted airspace to ensure force protection. An Air Vigilance system is comprised of a server unit configured and fielded with a single or multiple sub-component sensors. System Quantities are based upon server units. Operational details are classified.

FY 2019 Base funding in the amount of \$3.280 million provides for system development and integration of latest software developments and hardware configurations in accordance with Capability Drop (CD) 3 requirements

**B. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>
<b>Title:</b> Air Vigilance System Development and Integration	-	4.062	3.280
<b>Description:</b> Software and hardware engineering, development and integration efforts.			
<b>FY 2018 Plans:</b> Provides for software development and integration to ingest latest collected sensor data into the common baseline and enhance system capabilities to meet newly identified threats and latest Capability Drop requirements.			
<b>FY 2019 Plans:</b> Provides for software development and integration to ingest latest collected sensor data into the common baseline and enhance system capabilities to meet newly identified threats and latest Capability Drop requirements.			
<b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> System development driven by and in response to collected sensor data.			
<b>Accomplishments/Planned Programs Subtotals</b>	-	4.062	3.280

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2019 Army										<b>Date:</b> February 2018	
<b>Appropriation/Budget Activity</b> 2040 / 5				<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>				<b>Project (Number/Name)</b> EX7 / <i>Air Vigilance System Development</i>			
<b>C. Other Program Funding Summary (\$ in Millions)</b>											
			<u>FY 2019</u>	<u>FY 2019</u>	<u>FY 2019</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>Complete</u>	<u>Total Cost</u>
• 0603766A: <i>Tactical Support Development - Adv Dev (MIP)</i>	15.730	27.733	35.667	-	35.667	37.731	31.179	34.201	36.169	0.000	218.410
• W60001: <i>Air Vigilance (AV), OPA2 (W60001)</i>	0.733	5.348	8.497	-	8.497	8.953	8.169	8.530	8.701	Continuing	Continuing
<b>Remarks</b>											
<b>D. Acquisition Strategy</b>											
<p>Air Vigilance (AV) is an ACAT III Automated Information System (AIS) program of record (POR) that originated from a Quick Reaction Capability (QRC) developed and fielded cooperatively with the Intelligence Community (IC) through the efforts and mission of the Army's Tactical Exploitation of National Capabilities (TENCAP) office. The QRC was transitioned into an Army AIS POR by the AAE in May 2013 and assigned to Army Program Executive Office - Intelligence Electronic Warfare and Sensors (PEO IEWS), the chartered acquisition authority for management and execution of the Army's TENCAP mission and Milestone Decision Authority (MDA) for the AV POR. The Army TENCAP continues to leverage the IC common software development and support contract to field the AV systems, and ensure this primarily software based system can continue to access and leverage the common software, and input or ingest the latest sensor collects into the common IC data library. As an AIS POR, the AV POR is currently fielding systems per its Basis of Issue Plan (BOIP) and with software and system capabilities that meet its latest validated Capability Drop (CD) requirements. The AV POR is currently scheduled to meet Full Deployment (FD) by 2021, and will continue to evolve to meet future validated Capability Drop requirements and maintain its effectiveness against emerging threats.</p>											
<b>E. Performance Metrics</b>											
N/A											

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2019 Army</b>												<b>Date: February 2018</b>			
<b>Appropriation/Budget Activity</b> 2040 / 5						<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>						<b>Project (Number/Name)</b> EX7 / <i>Air Vigilance System Development</i>			
<b>Management Services (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
System Engineers and Technical Assistance (SETA)	Option/ FFPLOE	Engility Corp : Alexandria, VA	-	-		0.480		0.510		-		0.510	0.000	0.990	Continuing
<b>Subtotal</b>			-	-		0.480		0.510		-		0.510	0.000	0.990	N/A
<b>Product Development (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Air Vigilance software updates and integration	MIPR	Classified : Classified	-	-		2.588		1.825		-		1.825	0.000	4.413	Continuing
<b>Subtotal</b>			-	-		2.588		1.825		-		1.825	0.000	4.413	N/A
<b>Support (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
DA Gov Salaries, Travel, Office Costs	Allot	PEO IEWS/Air Vigilance POR : Alexandria, VA	-	-		0.744		0.830		-		0.830	0.000	1.574	Continuing
<b>Subtotal</b>			-	-		0.744		0.830		-		0.830	0.000	1.574	N/A
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Air Vigilance system Testing and Exercises	MIPR	Classified : Classified	-	-		0.250		0.115		-		0.115	0.000	0.365	-
<b>Subtotal</b>			-	-		0.250		0.115		-		0.115	0.000	0.365	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army											Date: February 2018						
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605766A / National Capabilities Integration (MIP)					Project (Number/Name) EX7 / Air Vigilance System Development							
					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					-	-		4.062		3.280		-		3.280	0.000	7.342	N/A

Remarks

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2019 Army</b>			<b>Date:</b> February 2018		
<b>Appropriation/Budget Activity</b> 2040 / 5		<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>		<b>Project (Number/Name)</b> EX7 / <i>Air Vigilance System Development</i>	

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
Air Vigilance Capability Drop #3 - APRB defined S/W, H/W requirement				1																								
AV system development, integration and fielding contract																												
Air Vigilance CD #3 National Assessment Group Test							2																					
Full Deployment - Current RDP s/w Baseline																		4										
RFP - Leveraging Intel Community Contract											3																	
AV s/w, h/w dev, integration and fielding - Follow-on capabilities																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2019 Army			<b>Date:</b> February 2018
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>	<b>Project (Number/Name)</b> EX7 / <i>Air Vigilance System Development</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Air Vigilance Capability Drop #3 - APRB defined S/W, H/W requirement	4	2017	4	2017
AV system development, integration and fielding contract	2	2016	2	2021
Air Vigilance CD #3 National Assessment Group Test	3	2018	3	2018
Full Deployment - Current RDP s/w Baseline	2	2021	2	2021
RFP - Leveraging Intel Community Contract	3	2019	3	2019
AV s/w, h/w dev, integration and fielding - Follow-on capabilities	4	2020	1	2026