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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Army										Date: March 2019		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605029A I Integrated Ground Security Surveillance Response Capability (IGSSR-C)							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	4.241	3.207	6.699	-	6.699	0.000	0.000	0.000	0.000	0.000	14.147
EQ2: IntegGrdSecSurvRespC(IGSSR-C)	-	4.241	3.207	6.699	-	6.699	0.000	0.000	0.000	0.000	0.000	14.147

A. Mission Description and Budget Item Justification

The Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) is an Automated Information System (AIS) program. IGSSR-C has a requirement to provide a layered approach to integrate sensors, sensor systems and unmanned systems with automated fusion capabilities. The system will provide a Force Protection (FP) Common Operational Picture (COP) capability for CONUS fixed, OCONUS semi-fixed or expeditionary elements in all Operating Environments (OE).

This capability will enable rapid decision analysis, speed the response process as well as increase information dissemination horizontally and vertically along the chain of command and with outside supporting organizations. IGSSR-C is a software centric fusion engine that connects legacy and emerging FP systems, legacy Chemical, Biological, Radiological, and Nuclear (CBRN), unmanned systems, biometric identification and forensic data systems. The desired end state is to achieve interoperability and COP with current and emerging FP systems used by Joint Forces, Department of Defense (DoD) agencies and multi-national forces.

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	4.418	3.211	5.780	-	5.780
Current President's Budget	4.241	3.207	6.699	-	6.699
Total Adjustments	-0.177	-0.004	0.919	-	0.919
• Congressional General Reductions	-0.004	-0.004			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.173	-			
• Adjustments to Budget Years	-	-	0.919	-	0.919

Change Summary Explanation

FY 2018 variation due to \$4 thousand for FFRDC Reduction \$173K for SBIR/STTR reduction.

FY 2019 variation due to reduction of \$107 thousand for SBIR/STTR.

FY 2020 increase of \$0.919 million is due to an adjustment required to align funding with planned acquisition strategy.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Army										Date: March 2019		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605029A / Integrated Ground Security Surveillance Response Capability (IGSSR-C)				Project (Number/Name) EQ2 / IntegGrdSecSurvRespC(IGSSR-C)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
EQ2: IntegGrdSecSurvRespC(IGSSR-C)	-	4.241	3.207	6.699	-	6.699	0.000	0.000	0.000	0.000	0.000	14.147
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) is an Automated Information System (AIS) program. IGSSR-C has a requirement to provide a layered approach to integrate sensors, sensor systems and unmanned systems with automated fusion capabilities. The system will provide a Force Protection (FP) Common Operational Picture (COP) capability for CONUS fixed, OCONUS semi-fixed or expeditionary elements in all Operating Environments (OE).

This capability will enable rapid decision analysis, speed the response process as well as increase information dissemination horizontally and vertically along the chain of command and with outside supporting organizations. IGSSR-C is a software centric fusion engine that connects legacy and emerging FP systems, legacy Chemical, Biological, Radiological, and Nuclear (CBRN), unmanned systems, biometric identification and forensic data systems. The desired end state is to achieve interoperability and COP with current and emerging FP systems used by Joint Forces, Department of Defense (DoD) agencies and multi-national forces.

FY 2020 Base Funding in the amount of \$6.699 million supports completion of the final software solution of IGSSR-C. Completion of a CDR/ System Verification Review (SVR), Developmental and Limited User Test (LUT) events, modeling and simulation in support of achieving a Milestone C decision will be accomplished in FY20.

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

	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: IGSSR-C Design and Development	4.241	3.104	6.699	-	6.699
Description: Completes IGSSR-C design efforts and software integration activities, achieves Milestone C decision, procures three hardware sets, and completes IOT&E.					
FY 2019 Plans: FY 2019 Plans: Complete development and implementation of all technical requirements. Complete Critical Design Review (CDR) and supports Developmental Testing and Limited User Testing (LUT). Provides support to modeling and simulation efforts.					
FY 2020 Base Plans: FY 2020 Plans:					

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Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0605029A / <i>Integrated Ground Security Surveillance Response Capability (IGSSR-C)</i>		Project (Number/Name) EQ2 / <i>IntegGrdSecSurvRespC(IGSSR-C)</i>	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Achieve Milestone C decision, procure three hardware sets, and complete IOT&E.					
<i>FY 2019 to FY 2020 Increase/Decrease Statement:</i> FY 2020 increase of \$0.919 million is due to an adjustment required to align funding with planned acquisition strategy.					
<i>Title:</i> FY 2019 SBIR / STTR Transfer <i>FY 2019 Plans:</i> FY 2019 SBIR / STTR Transfer <i>FY 2019 to FY 2020 Increase/Decrease Statement:</i> FY 2019 SBIR / STTR Transfer	-	0.103	-	-	-
Accomplishments/Planned Programs Subtotals	4.241	3.207	6.699	-	6.699

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• M90101: <i>Base</i>	25.926	39.200	0.000	47.110	47.110	47.581	24.028	24.028	24.509	0.000	232.382
<i>Defense Systems (BDS)</i>											
Remarks											
D. Acquisition Strategy IGSSR-C provides a layered approach to integrate sensors, sensor systems and unmanned systems. The IGSSR-C Capability Design Document (CDD) was approved September 2013. IGSSR-C is made up of a suite of software that achieves integration, fusion and interoperability in support of the Army Acquisition Executive's Common Operating Environment (COE) Command Post Compute Environment (CPCE) and Sensor CE efforts. The IGSSR-C program received an approved Materiel Development Decision (MDD) from the Milestone Decision Authority (MDA) on 4 December 2015, and achieved a Milestone B decision on 29 Sep 2017. The acquisition strategy for IGSSR-C was approved on 5 December 2016 by the MDA, which approved plans to leverage a contract through the Night Vision and Electronic Sensors Directorate (NVESD), Fort Belvoir, Virginia to develop, integrate and test the software solution to meet the IGSSR-C requirements. Milestone C is planned for 2QFY21											

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E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Army												Date: March 2019			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0605029A / Integrated Ground Security Surveillance Response Capability (IGSSR-C)				Project (Number/Name) EQ2 / IntegGrdSecSurvRespC(IGSSR-C)					
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
IGSSR-C Project Management	MIPR	PM FPS : Fort Belvoir, VA	0.151	0.924		0.441	May 2019	0.556	May 2020	-		0.556	0.000	2.072	-
Subtotal			0.151	0.924		0.441		0.556		-		0.556	0.000	2.072	N/A
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
IGSSR-C Design	C/CPFF	NVESD/MTEQ : Ft. Belvoir	1.873	1.898		0.971	Feb 2019	-		-		-	Continuing	Continuing	Continuing
IGSSR-C Prototypes	C/CPFF	NVESD/MTEQ : Ft. Belvoir	1.865	-		0.397	Feb 2019	3.915	Jan 2020	-		3.915	Continuing	Continuing	Continuing
IGSSR-C Independent Software Assessment	MIPR	Carnegie Mellon University Software Engineering Institute : Pittsburgh, PA	-	0.456		0.362	Apr 2019	0.502	Mar 2020	-		0.502	Continuing	Continuing	Continuing
FY 2019 SBIR/STTR Transfer	TBD	TBD : TBD	-	-		0.103		-		-		-	0.000	0.103	-
Subtotal			3.738	2.354		1.833		4.417		-		4.417	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
IGSSR-C Design Support	MIPR	RDECOM CERDEC : Fort Belvoir, VA	0.505	0.193		0.156	Feb 2019	-		-		-	Continuing	Continuing	Continuing
Subtotal			0.505	0.193		0.156		-		-		-	Continuing	Continuing	N/A

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Test and Evaluation (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
IGSSR-C Test and Evaluation	MIPR	ATEC : Aberdeen Proving Ground, MD	0.395	0.655		0.508	Feb 2019	1.454	Feb 2020	-		1.454	Continuing	Continuing	Continuing
IGSSR-C Modeling and Simulation	MIPR	Night Vision and Electronic Sensors Directorate : Ft. Belvoir, VA	-	0.115		0.117	Feb 2019	0.117	Mar 2020	-		0.117	Continuing	Continuing	Continuing
IGSSR-C Software Support Planning and Documentation	MIPR	CECOM SEC : Aberdeen, MD	-	-		0.152	Feb 2019	0.155	Mar 2020	-		0.155	0.000	0.307	-
Subtotal			0.395	0.770		0.777		1.726		-		1.726	Continuing	Continuing	N/A
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			4.789	4.241		3.207		6.699		-		6.699	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Army			Date: March 2019		
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Event Name	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
IGSSR-C Development/Test/Integration					Dev/Test/Int				<div>1</div> <div>MS C</div>								<div>Limited Deployment</div>											
IGSSR-C Milestone C																												
IGSSR-C Limited Deployment (LD)																												
IGSSR-C Full Deployment Decision																												
IGSSR-C Full Deployment																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Army			Date: March 2019
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
IGSSR-C Risk Reduction	4	2015	4	2017
IGSSR-C Development/Test/Integration	1	2019	2	2021
IGSSR-C Milestone C	1	2020	1	2020
IGSSR-C Limited Deployment (LD)	4	2021	2	2022
IGSSR-C Full Deployment Decision	3	2021	3	2021
IGSSR-C Full Deployment	3	2022	3	2025