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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2021 Army **Date:** February 2020

<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 0605029A / Integrated Ground Security Surveillance Response Capability (IGSSR-C)
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	3.104	6.699	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	9.803
EQ2: <i>IntegGrdSecSurvRespC(IGSSR-C)</i>	-	3.104	6.699	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	9.803

**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 is the last year of funding for this program.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Previous President's Budget	3.207	6.699	0.000	-	0.000
Current President's Budget	3.104	6.699	0.000	-	0.000
Total Adjustments	-0.103	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.103	-			
• SBIR/STTR Transfer	-	-			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Army										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0605029A / <i>Integrated Ground Security Surveillance Response Capability (IGSSR-C)</i>			<b>Project (Number/Name)</b> EQ2 / <i>IntegGrdSecSurvRespC(IGSSR-C)</i>				
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
EQ2: <i>IntegGrdSecSurvRespC(IGSSR-C)</i>	-	3.104	6.699	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	9.803
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 including outside supporting organizations. IGSSR-C is a software centric system providing video analytics and common control of force protection systems that will reduce the workload on the system operator. The system will be capable of ingesting full motion video as well as sensor data from legacy and emerging FP systems, Chemical, Biological, Radiological, and Nuclear (CBRN), unmanned systems, biometric identification and forensic data systems. The desired end state is to achieve interoperability and a COP with current and emerging FP systems used by Joint Forces, Department of Defense (DoD) agencies and multi-national forces.

FY 2020 is the last year of funding for this program.

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

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<b>Title:</b> IGSSR-C Design and Development	3.104	6.395	-	-	-
<b>Description:</b> Completes Critical Design Review (CDR), procures Fixed Control Station(FCS) hardware to conduct cyber security testing, Developmental Testing (DT), Limited User Tests (LUT) and accomplishes MS C.					
<b>FY 2020 Plans:</b> FY 2020 Plans: Achieve Milestone C decision, procure three hardware sets, and complete IOT&E.					
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> FY 2020 is the last year of funding for this program.					
<b>Title:</b> FY 2020 SBIR/STTR Transfer	-	0.304	-	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Army		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605029A / <i>Integrated Ground Security Surveillance Response Capability (IGSSR-C)</i>	<b>Project (Number/Name)</b> EQ2 / <i>IntegGrdSecSurvRespC(IGSSR-C)</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<b>Description:</b> Funding transferred in accordance with Title 15 USC ?638					
<b>FY 2020 Plans:</b> Funding transferred in accordance with Title 15 USC ?638					
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Funding transferred in accordance with Title 15 USC ?638					
<b>Accomplishments/Planned Programs Subtotals</b>	3.104	6.699	-	-	-

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• M90106: <i>IntegGrdSecSurvRespC (IGSSR-C)</i>	-	-	0.000	7.287	7.287	7.469	-	-	23.496	0.000	38.252

**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) 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 4th quarter of FY 2020

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army** **Date:** February 2020

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605029A / <i>Integrated Ground Security Surveillance Response Capability (IGSSR-C)</i>	<b>Project (Number/Name)</b> EQ2 / <i>IntegGrdSecSurvRespC(IGSSR-C)</i>
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<b>Management Services (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
IGSSR-C Project Management	MIPR	PM FPS : Fort Belvoir, VA	1.075	0.545	May 2019	0.505	May 2020	-		-		-	0.000	2.125	-
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	-	-		0.304		-		-		-	0.000	0.304	-
<b>Subtotal</b>			1.075	0.545		0.809		-		-		-	0.000	2.429	N/A

<b>Product Development (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
IGSSR-C Design	C/CPFF	NVESD/MTEQ : Ft. Belvoir	3.771	1.497	Feb 2019	-		-		-		-	0.000	5.268	-
IGSSR-C Prototypes	C/CPFF	NVESD/MTEQ : Ft. Belvoir	1.865	-		3.865	Jan 2020	-		-		-	0.000	5.730	-
IGSSR-C Independent Software Assessment	MIPR	Carnegie Mellon University Software Engineering Institute : Pittsburgh, PA	0.456	0.362	Apr 2019	0.451	Mar 2020	-		-		-	0.000	1.269	-
<b>Subtotal</b>			6.092	1.859		4.316		-		-		-	0.000	12.267	N/A

<b>Support (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
IGSSR-C Design Support	MIPR	RDECOM CERDEC : Fort Belvoir, VA	0.698	0.156	Feb 2019	-		-		-		-	0.000	0.854	-
IGSSR-C Cyber / RAM Support	TBD	MITRE : Fort Belvoir	-	0.175		-		-		-		-	0.000	0.175	-
<b>Subtotal</b>			0.698	0.331		-		-		-		-	0.000	1.029	N/A





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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Army		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605029A / <i>Integrated Ground Security Surveillance Response Capability (IGSSR-C)</i>	<b>Project (Number/Name)</b> EQ2 / <i>IntegGrdSecSurvRespC(IGSSR-C)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
IGSSR-C Material Development Decision	1	2016	1	2016
IGSSR-C Risk Reduction	4	2015	4	2017
IGSSR-C Milestone B	4	2017	4	2017
IGSSR-C EMD Phase	4	2017	4	2020
IGSSR-C Milestone C	4	2020	4	2020
IGSSR-C Limited Deployment (LD)	4	2020	1	2023
IGSSR-C Full Deployment Decision	1	2023	1	2023
IGSSR-C Full Deployment	1	2023	3	2026
IGSSR-C DT	3	2020	3	2020
IGSSR-C LUT/LOG DEMO	4	2020	4	2020