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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force										Date: February 2019		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604287F I Physical Security Equipment							
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	-	39.639	14.421	9.700	0.000	9.700	10.066	10.276	10.462	10.650	Continuing	Continuing
655120: Physical Security Equipment - SD ED	-	39.639	14.421	9.700	0.000	9.700	10.066	10.276	10.462	10.650	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Integrated Base Defense Security Systems (IBDSS) provides improvements and enhancements, demonstrates, and tests Physical Security Equipment (PSE) systems to include Force Protection. This program supports the protection of tactical, fixed, and nuclear weapons systems, AF personnel and AF facilities. The PSE program is organized to provide PSE RDT&E for Air Force specific needs but as a complement to, and in conjunction with, the PSE RDT&E programs funded by the DOD Physical Security Enterprise and Analysis Group (PSEAG). As such this program will obtain, demonstrate, and test PSE in the same manner and to the same standards and architecture as PSEAG-funded projects to ensure interoperability with PSEAG-developed PSE. In support of PSE, this RDT&E program includes spectrum planning for radio frequency (RF), communication security (cyber), information assurance requirements, integration and interoperability command control & communication (3) platform & components. This Program Element also includes funding for Force Protection Commercial Off The Shelf (FP COTS) market research, evaluation and testing. The FP COTS testing applies to all available technologies (delay, denial, detection, assessment, communication display, access control, power, mobility, and defeat effects) which are considered effective for AF physical security use. This program supports the maintenance and test support at Site C 3 and the Cold Weather Test Site (CWTS), as annotated in DoD Directive 3200.11, listing the 46th Test Wing (TW) as a Major Range and Test facility, conducting developmental and operational testing as the primary mission. Force Protection programs are inherently subject to rapid changes in the operational environment and will retain sufficient Program flexibility to meet changes in location, scope and capability in order to protect Air Force people, facilities and warfighting assets.

Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Emergent Operational Need (JEON) is a rapid acquisition and deployment capability existing of full kill (detect, track, assess and defeat with various capabilities (fixed, mobile, portable and hand-held.) It is a layered system-of-systems using COTS technologies, integrated via GOTS C2 system.

Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Urgent Operational Need (JUON) supports EUCOM JUON to protect specific strategic assets in overseas theaters of operation from the evolution of small unmanned aerial systems based on low cost, extensive proliferation, and availability in the commercial marketplace. FY17 is Overseas Contingency Operations (OCO) funding.

Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Urgent Operational Need (JUON)in support of the Combined Joint Task Force - Operations INHERENT RESOLVE in CENTCOM. This funding protects assets from the evolution of small UAS systems based on low cost, extensive proliferation and availability in the current market place.

Counter Small Unmanned Aerial Systems (Cs-UAS) protection capabilities at downward selected high priority sites.

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Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604287F I Physical Security Equipment				
Counter Small Unmanned Aerial Systems (Cs-UAS) protection capabilities for 7th Air Force Urgent Operational Need (UON)						
Air Base Ground Defense (ABGD) will support all Development testing, Evaluation, Integration, Certification, and proof of concept for Tactical Automated Security Systems (TASS) and other tactical/expeditionary equipment that is required to provide robust force protection capabilities worldwide; flight-line security, aircraft, intelligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations, advanced technology force multipliers to include: night vision and thermal imagery equipment, counter sniper/battery capabilities, ground weapons, target acquisition radar, inter operable tactical communications, [required C3 and protective standoff equipment for] wheeled tactical [non-tactical], armored [un-armored] vehicles, tactical sensors systems, integrated and interoperable command control & communication (3) platform & components, and unit/personnel protective field equipment. Additionally, ABGD will support all Development testing, Evaluation, Integration, Certification, and proof of concept for Technology Integration Management (TIM) and associated integration and interoperability efforts						
This program element may include necessary civilian pay expenses required to manage, execute, and deliver these weapon system capabilities.						
As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget		19.739	14.421	9.700	0.000	9.700
Current President's Budget		39.639	14.421	9.700	0.000	9.700
Total Adjustments		19.900	0.000	0.000	0.000	0.000
• Congressional General Reductions		-0.011	-0.029			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		19.900	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.011	0.029	0.000	0.000	0.000

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Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604287F I Physical Security Equipment		
Congressional Add Details (\$ in Millions, and Includes General Reductions)		FY 2018	FY 2019	
Project: 655120: Physical Security Equipment - SD ED				
Congressional Add: Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Urgent Operational Need (JUON)- EUCOM		1.000	0.000	
Congressional Add: Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Urgent Operational Need (JUON) - CENTCOM		18.900	0.000	
Congressional Add Subtotals for Project: 655120		19.900	0.000	
Congressional Add Totals for all Projects		19.900	0.000	
Change Summary Explanation				
FY 2018 MDAP Penalty reduction \$0.011M.				
FY 2018 Congressional Add \$19.9M.				
FY 2019 FY 2019 funds include \$0.029M withhold pending final determination of Penalty for Cost Overruns in accordance with PL 114-92 as amended by PL 115-91 section 825(a).				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020
Title: IBDSS-1		9.239	9.421	0.000
Description: IBDSS (Integrated Base Defense Security Systems) qualifies, demonstrates, and tests Physical Security Equipment (PSE) systems to include Force Protection. This continuing effort was previously named Physical Security Equipment.				
FY 2019 Plans:				
Includes, but not limited to continuing Force Protection Commercial Off The Shelf (COTS) market research, evaluation and testing to address capability gaps and obsolescence. This includes integration and testing to qualify COTS equipment to provide essential upgrades/improvements and state-of the art technology to support integrated based security systems installations worldwide. Type of technologies includes delay/denial/detection/assessment/communication display/access control/power equipment & systems for IBDSS projects.				
Continue with previous integrated or modified COTS efforts to improve IBDSS physical security equipment.				
FY 2020 Plans:				
N/A				
FY 2019 to FY 2020 Increase/Decrease Statement:				
IBDSS-1 funding ends in FY19. FY20 is the start of IBDSS-2				
Title: IBDSS-2		0.000	0.000	9.700

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2020 Air Force		<b>Date:</b> February 2019		
<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 5: System Development &amp; Demonstration (SDD)</i>		<b>R-1 Program Element (Number/Name)</b> PE 0604287F / <i>Physical Security Equipment</i>		
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<p><b>Description:</b> IBDSS-2 (Integrated Base Defense Security Systems) qualifies, demonstrates, and tests Physical Security Equipment (PSE) systems to include Force Protection. This continuing effort was previously named Physical Security Equipment.</p> <p><b>FY 2019 Plans:</b> Includes, but not limited to continuing Force Protection Commercial Off The Shelf (COTS) market research, evaluation and testing to address capability gaps and obsolescence. This includes integration and testing to qualify COTS equipment to provide essential upgrades/improvements and state-of the art technology to support integrated based security systems installations worldwide. Type of technologies includes delay/denial/detection/assessment/communication display/access control/power equipment &amp; systems for IBDSS projects.</p> <p>Continue with previous integrated or modified COTS efforts to improve IBDSS physical security equipment.</p> <p><b>FY 2020 Plans:</b> IBDSS (Integrated Base Defense Security Systems) qualifies, demonstrates, and tests Physical Security Equipment (PSE) systems to include Force Protection. This continuing effort was previously named Physical Security Equipment.</p> <p>Includes, but not limited to continuing Force Protection Commercial Off The Shelf (COTS) market research, evaluation and testing to address capability gaps and obsolescence. This includes integration and testing to qualify COTS equipment to provide essential upgrades/improvements and state-of the art technology to support integrated based security systems installations worldwide. Type of technologies includes delay/denial/detection/assessment/communication display/access control/power equipment &amp; systems for IBDSS projects.</p> <p>Continue with previous integrated or modified COTS efforts to improve IBDSS physical security equipment</p> <p><b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> FY20 is the start of IBDSS-2</p>				
<p><b>Title:</b> Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Emergent Operational Need (JEON) - STRATCOM</p> <p><b>Description:</b> Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Emergent Operational Need (JEON) is a rapid acquisition and deployment capability existing of full kill (detect, track, assess and defeat with various capabilities (fixed, mobile, portable and hand-held.) It is a layered system-of-systems using COTS technologies, integrated via GOTS C2 system.</p> <p><b>FY 2019 Plans:</b></p>		9.163	0.000	0.000

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2020 Air Force		<b>Date:</b> February 2019		
<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 5: System Development &amp; Demonstration (SDD)</i>		<b>R-1 Program Element (Number/Name)</b> PE 0604287F <i>I Physical Security Equipment</i>		
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
N/A: no out year funding.				
<b>FY 2020 Plans:</b> N/A				
<b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> N/A				
<b>Title:</b> Counter Small Unmanned Aerial Systems (Cs-UAS) Urgent Operational Need (UON) - 7th Air Force <b>Description:</b> Delivering rapid acquisition and deployment capability of COTS/GOTS technologies to protect assets from the evolution of counter small unmanned aerial systems (Cs-UAS) in the pacific theater.  <b>FY 2019 Plans:</b> N/A: no out year funding. <b>FY 2020 Plans:</b> N/A <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> N/A		1.337	0.000	0.000
<b>Title:</b> Counter Small Unmanned Aerial System (Cs-UAS) protection capabilities at downward selected high priority sites. <b>Description:</b> Counter Small Unmanned Aerial System (Cs-UAS) protection capabilities at downward selected high priority sites.  <b>FY 2019 Plans:</b> Plans include but are not limited to:  Development of Medusa cloud computing and distributed support infrastructure, supporting Phase 0 fielding at all AF bases, and continuing to integrate and field COTS/GOTS components to meet C-sUAS requirements. <b>FY 2020 Plans:</b> N/A <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> N/A		0.000	5.000	0.000
<b>Accomplishments/Planned Programs Subtotals</b>		19.739	14.421	9.700

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								FY 2018	FY 2019			
Congressional Add: Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Urgent Operational Need (JUON)- EUCOM								1.000	0.000			
FY 2018 Accomplishments: Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Urgent Operational Need (JUON) supports EUCOM JUON to protect specific strategic assets in overseas theaters of operation from the evolution of small unmanned aerial systems based on low cost, extensive proliferation, and availability in the commercial marketplace.												
FY 2019 Plans: N/A: no out year funding.N/A: no out year funding.												
Congressional Add: Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Urgent Operational Need (JUON) - CENTCOM								18.900	0.000			
FY 2018 Accomplishments: Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Urgent Operational Need (JUON) in support of the Combined Joint Task Force - Operations INHERENT RESOLVE in CENTCOM. This funding protects assets from the evolution of small UAS systems based on low cost, extensive proliferation and availability in the current market place.												
FY 2019 Plans: N/A: no out year funding.												
Congressional Adds Subtotals								19.900	0.000			
D. 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	
• OPAF 03 Line Item 29: Base Physical Security Systems	166.437	92.679	76.406	-	76.406	50.241	-	-	-	Continuing	Continuing	
Remarks												
E. Acquisition Strategy												
AFSFC and Force Protection program office investigates requirements to include new and/or obsolete items. COTS sub-systems, equipment and components are competitively acquired from industry after thorough market research. Equipment for testing is purchased via competitive selection processes via direct purchase orders. For security systems COTS that are required to be qualified for nuclear security environments where industry COTS sources may not be mature, consideration is given to replacement of new items or modification of COTS through the competitive selection procedure as well.												
Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Emergent Operational Need (JEON). The Force Protection program office is acquiring COTS sub-systems and equipment for DT/OT as well as minor development of an existing C2 System for integration.												

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<p>Counter Small Unmanned Aerial Systems (Cs-UAS) Joint Urgent Operational Need (JUON). The Force Protection program office is acquiring COTS sub-systems and equipment in support of EUCOM JUON for DT/OT as well as minor development of an existing C2 System for integration.</p> <p>Delivery Orders on Indefinite Delivery/Indefinite Quantity contract vehicles or other approved purchase methods are utilized to acquire equipment.</p> <p><b>F. Performance Metrics</b></p> <p>Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604287F / Physical Security Equipment				Project (Number/Name) 655120 / Physical Security Equipment - SD ED					
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
Integrated Base Defense Security Systems (IBDSS-1)	Various	Various : Various	-	1.770		3.513		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-2)	Various	Various : Various	-	-		-		6.995		-		6.995	Continuing	Continuing	-
Counter Small Unmanned Aerial Systems (CsUAS) Joint Emergent Operational Need (JEON) STRATCOM	Various	Various : Various	-	4.017		-		-		-		-	Continuing	Continuing	-
Counter Small Unmanned Aerial Systems (CsUAS) Joint Urgent Operational Need (JUON) EUCOM	MIPR	Various : Various	-	-		-		-		-		-	Continuing	Continuing	-
Counter Small Unmanned Aerial Systems (CsUAS) Joint Urgent Operational Need (JUON) CENTCOM	Various	Various : Various	-	13.932		-		-		-		-	Continuing	Continuing	-
Counter Small Unmanned Aerial System (CsUAS) Urgent Operational Need (UON) 7th Air Force	Various	Various : Various	-	-		-		-		-		-	Continuing	Continuing	-
Counter Small Unmanned Aerial System (Cs-UAS) protection capabilities at downward selected high priority sites	Various	Various : Various	-	-		3.579		-		-		-	Continuing	Continuing	-
Subtotal			-	19.719		7.092		6.995		-		6.995	Continuing	Continuing	N/A



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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604287F / Physical Security Equipment				Project (Number/Name) 655120 / Physical Security Equipment - SD ED					
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
Integrated Base Defense Security Systems (IBDSS-1)	Various	Various : Various	-	1.975		2.135		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-2)	Various	Various : Various	-	-		-		1.905		-		1.905	Continuing	Continuing	-
Counter Small Unmanned Aerial Systems (CsUAS) Joint Urgent Operational Need (JUON) CENTCOM	Various	Various : Various	-	4.968		-		-		-		-	Continuing	Continuing	-
Counter Small Unmanned Aerial Systems (CsUAS) Urgent Operational Need (UON) 7th Air Force	MIPR	Various : Various	-	1.337		-		-		-		-	Continuing	Continuing	-
Subtotal			-	8.280		2.135		1.905		-		1.905	Continuing	Continuing	N/A
Remarks															
The support funding is planned at the above amounts. If the support contracts are less, the available funds will be transitioned to the Product Development line.															
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
Integrated Base Defense Security Systems (IBDSS-1)	PO	TAC-3 : Eglin, FL	-	5.495		3.773		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-2)	Various	Various : Various	-	-		-		0.800		-		0.800	Continuing	Continuing	-
Counter Small Unmanned Aerial Systems (CsUAS) Joint Emergent Operational Need (JEON) STRATCOM	PO	TAC-3 : Eglin, FL	-	5.145		-		-		-		-	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604287F / Physical Security Equipment				Project (Number/Name) 655120 / Physical Security Equipment - SED					
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
Counter Small Unmanned Aerial Systems (CsUAS) Joint Urgent Operational Need (JUON) EUCOM	PO	Various : Various	-	1.000		-		-		-		-	Continuing	Continuing	-
Counter Small Unmanned Aerial Systems (Cs-UAS) protection capabilities at downward selected high priority sites	Various	Various : Various	-	-		1.421		-		-		-	Continuing	Continuing	-
Subtotal			-	11.640		5.194		0.800		-		0.800	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			-	39.639		14.421		9.700		-		9.700	Continuing	Continuing	N/A
Remarks Various delivery orders will be awarded through out the fiscal year for numerous projects.															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2020 Air Force			<b>Date:</b> February 2019		
<b>Appropriation/Budget Activity</b> 3600 / 5		<b>R-1 Program Element (Number/Name)</b> PE 0604287F / <i>Physical Security Equipment</i>		<b>Project (Number/Name)</b> 655120 / <i>Physical Security Equipment - SD ED</i>	

	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
<b>FY19 Events</b>																												
Integrated Base Defense Security Systems (IBDSS-1)																												
<b>FY20 Events</b>																												
Integrated Base Defense Security Systems (IBDSS-2)																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2020 Air Force		<b>Date:</b> February 2019
<b>Appropriation/Budget Activity</b> 3600 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604287F / <i>Physical Security Equipment</i>	<b>Project (Number/Name)</b> 655120 / <i>Physical Security Equipment - SD ED</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>FY19 Events</i></b>				
Integrated Base Defense Security Systems (IBDSS-1)	1	2018	4	2020
<b><i>FY20 Events</i></b>				
Integrated Base Defense Security Systems (IBDSS-2)	1	2020	4	2022