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

<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>
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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	-	13.893	9.700	6.752	0.000	6.752	10.261	10.443	10.630	10.825	Continuing	Continuing
655120: <i>Physical Security Equipment - SD ED</i>	-	13.893	9.700	6.752	0.000	6.752	10.261	10.443	10.630	10.825	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. Defender Multi-Domain Command, Control and Communications (DMDC3) - The DMDC3 initiative will rapidly develop the foundational structure of IBDSS to provide a platform that integrates the computing power, the means of communication, and the tools for situational awareness.

Counter-small Unmanned Aircraft Systems (C-sUAS) 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 Aircraft Systems (C-sUAS) 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.

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<p>Counter-small Unmanned Aircraft Systems (C-sUAS) 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.</p> <p>Counter-small Unmanned Aircraft Systems (C-sUAS) protection capabilities at downward selected high priority sites.</p> <p>Counter-small Unmanned Aircraft Systems (C-sUAS) protection capabilities for 7th Air Force Urgent Operational Need (UON)</p> <p>Counter-small Unmanned Aircraft Systems (C-sUAS) provides counter-drone full-kill chain capabilities to Air Force installation, while also advancing and exploring existing and new capabilities.</p> <p>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 &amp; communication (3) platform &amp; 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.</p> <p>Airbase Air Defense Systems (ABADS) The Air Force Counter-small Unmanned Aircraft System (C-sUAS) program will be the principal USAF program to defend against the emerging and growing small unmanned aerial system threat. This program protects strategic assets vital to national security while bedded down and while on the move. It also protects personnel deployed in theater. Small UASs are inexpensive and commercially available and have been used to target US Service members, Allies and Coalition partners. This threat will evolve continuously as commercially available drone technology and drones advance rapidly. The USAF will be analyzing the evolving threat, and evaluating new capabilities to take on this threat, while also designing an architecture and new systems to bring down life cycle cost so that capability can be fielded to all 180+ AF installations and protect AF assets globally.</p> <p>The Air Force requires Airbase Air Defense Systems (ABADS) RDT&amp;E funding for Counter-small Unmanned Aircraft Systems (C-sUAS) to continue capability development essential to maintain pace with the evolving threat.</p> <p>This program element may include necessary civilian pay expenses required to manage, execute, and deliver these weapon system capabilities.</p>		

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This program element may include necessary civilian pay expenses required to manage, execute, and deliver Base Physical Security System capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605831F.

The FY 2021 funding request was reduced by \$3.3 million for the availability of prior year execution balances.

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>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	14.421	9.700	10.066	0.000	10.066
Current President's Budget	13.893	9.700	6.752	0.000	6.752
Total Adjustments	-0.528	0.000	-3.314	0.000	-3.314
• Congressional General Reductions	-0.007	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.528	0.000			
• Other Adjustments	0.007	0.000	-3.314	0.000	-3.314

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** 655120: *Physical Security Equipment - SD ED*

Congressional Add: *Counter-small Unmanned Aircraft Systems (C-sUAS) Joint Urgent Operational Need (JUON)- EUCOM*

Congressional Add: *Counter-small Unmanned Aircraft Systems (C-sUAS) Joint Urgent Operational Need (JUON) - CENTCOM*

Congressional Add Subtotals for Project: 655120

Congressional Add Totals for all Projects

	<b>FY 2019</b>	<b>FY 2020</b>
	0.000	-
	0.000	-
	0.000	-
	0.000	-

**Change Summary Explanation**

FY 2019 includes \$0.528M transfer for SIBR

FY 2019 funds include \$0.007M MDAP penalty withhold

FY 2021 funding was reduced by \$3.314M for under-execution and inflation

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<p><b>Title:</b> IBDSS-1</p> <p><b>Description:</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><b>FY 2020 Plans:</b> N/A</p> <p><b>FY 2021 Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> IBDSS-1 funding ends in FY19. FY20 is the start of IBDSS-2.</p>		9.978	0.000	0.000
<p><b>Title:</b> IBDSS-2</p> <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 2020 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>Defender Multi-Domain Command, Control and Communications (DMDC3) - The DMDC3 initiative will rapidly develop the foundational structure of IBDSS to provide a platform that integrates the computing power, the means of communication, and the tools for situational awareness.</p> <p><b>FY 2021 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</p>		0.000	9.700	6.752

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
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  Defender Multi-Domain Command, Control and Communications (DMDC3) - The DMDC3 initiative will rapidly develop the foundational structure of IBDSS to provide a platform that integrates the computing power, the means of communication, and the tools for situational awareness.  <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Funding decreased due to under execution				
<b>Title:</b> Counter-small Unmanned Aircraft Systems (C-sUAS) Joint Emergent Operational Need (JEON) - STRATCOM  <b>Description:</b> Counter-small Unmanned Aircraft Systems (C-sUAS) 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.  <b>FY 2020 Plans:</b> N/A  <b>FY 2021 Plans:</b> N/A  <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> N/A		0.000	0.000	0.000
<b>Title:</b> Counter-small Unmanned Aircraft Systems (C-sUAS) 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 Aircraft Systems (C-sUAS) in the pacific theater.  <b>FY 2020 Plans:</b> N/A  <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> N/A		0.000	0.000	-
<b>Title:</b> Counter-small Unmanned Aircraft System (C-sUAS) protection capabilities at downward selected high priority sites.		3.915	0.000	-

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2019	FY 2020	FY 2021
<b>Description:</b> Counter-small Unmanned Aircraft System (C-sUAS) protection capabilities at downward selected high priority sites.			
<b>FY 2020 Plans:</b> N/A			
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> N/A			
<b>Accomplishments/Planned Programs Subtotals</b>	13.893	9.700	6.752

	FY 2019	FY 2020
<b>Congressional Add:</b> Counter-small Unmanned Aircraft Systems (C-sUAS) Joint Urgent Operational Need (JUON)- EUCOM <b>FY 2019 Accomplishments:</b> N/A: no out year funding.	0.000	-
<b>Congressional Add:</b> Counter-small Unmanned Aircraft Systems (C-sUAS) Joint Urgent Operational Need (JUON) - CENTCOM <b>FY 2019 Accomplishments:</b> N/A: no out year funding.	0.000	-
<b>Congressional Adds Subtotals</b>	0.000	-

**D. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2021</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To</u>	<u>Total Cost</u>
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• OPAF 03 Line Item 29: Base Physical Security Systems	55.340	185.684	39.601	-	39.601	50.711	51.595	52.524	60.602	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.

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<p>Counter-small Unmanned Aircraft Systems (C-sUAS) 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.</p> <p>Counter-small Unmanned Aircraft Systems (C-sUAS) 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>The Force Protection program office is developing new capabilities, updating existing capabilities, exploring and fielding COTS capabilities, primarily, but not exclusively through a Mid-Tier Acquisition program.</p> <p>Notional strategy to deploy Defender Multi-Domain Command, Control and Communications (DMDC3) and IBDSS of the future. DMDC3 Pathfinder operations at Vindicator and Advantor IDS Systems at various bases.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Air Force												Date: February 2020			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
3600 / 5				PE 0604287F / Physical Security Equipment				655120 / Physical Security Equipment - SD ED							
Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
Product Development	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-1)	Various	Various : Various	-	3.891		-		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-2)	Various	Various : Various	-	-		1.881		2.904		-		2.904	Continuing	Continuing	-
Counter-small Unmanned Aircraft Systems (C-sUAS) Joint Emergent Operational Need (JEON) STRATCOM	Various	Various : Various	-	-		-		-		-		-	Continuing	Continuing	-
Counter-small Unmanned Aircraft Systems (C-sUAS) Joint Urgent Operational Need (JUON) EUCOM	MIPR	Various : Various	-	-		-		-		-		-	Continuing	Continuing	-
Counter-small Unmanned Aircraft Systems (C-sUAS) Joint Urgent Operational Need (JUON) CENTCOM	Various	Various : Various	-	-		-		-		-		-	Continuing	Continuing	-
Counter-small Unmanned Aircraft System (C-sUAS) Urgent Operational Need (UON) 7th Air Force	Various	Various : Various	-	-		-		-		-		-	Continuing	Continuing	-
Counter-small Unmanned Aircraft System (C-sUAS) protection capabilities at downward selected high priority sites	Various	Various : Various	-	3.612		-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			-	7.503		1.881		2.904		-		2.904	Continuing	Continuing	N/A

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

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<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			
Support	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-1)	Various	Various : Various	-	2.360		-		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-2)	Various	Various : Various	-	-		1.920		2.094		-		2.094	Continuing	Continuing	-
Counter-small Unmanned Aircraft Systems (C-sUAS) Joint Urgent Operational Need (JUON) CENTCOM	Various	Various : Various	-	-		-		-		-		-	Continuing	Continuing	-
Counter-small Unmanned Aircraft Systems (C-sUAS) Urgent Operational Need (UON) 7th Air Force	MIPR	Various : Various	-	-		-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			-	2.360		1.920		2.094		-		2.094	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.

<b>Test and Evaluation (\$ 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			
Test and Evaluation	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-1)	PO	TAC-3 : Eglin, FL	-	3.727		-		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-2)	Various	Various : Various	-	-		5.899		1.754		-		1.754	Continuing	Continuing	-
Counter-small Unmanned Aircraft Systems (C-	PO	TAC-3 : Eglin, FL	-	-		-		-		-		-	Continuing	Continuing	-

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

<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>
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<b>Test and Evaluation (\$ 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				
sUAS) Joint Emergent Operational Need (JEON) STRATCOM																
Counter-small Unmanned Aircraft Systems (C-sUAS) Joint Urgent Operational Need (JUON) EUCOM	PO	Various : Various	-	-		-		-		-		-	-	Continuing	Continuing	-
Counter-small Unmanned Aircraft Systems (C-sUAS) protection capabilities at downward selected high priority sites	Various	Various : Various	-	0.303		-		-		-		-	-	Continuing	Continuing	-
<b>Subtotal</b>			-	4.030		5.899		1.754		-		1.754	Continuing	Continuing	N/A	

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	-	13.893	9.700	6.752	-	6.752	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: PB 2021 Air Force</b>		<b>Date:</b> February 2020
<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 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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)	████████████████████
<b>FY21 Events</b>	
Integrated Base Defense Security Systems (IBDSS-2)	████████████████████

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Air Force		<b>Date:</b> February 2020
<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 - SED</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	2019	4	2020
<b><i>FY20 Events</i></b>				
Integrated Base Defense Security Systems (IBDSS-2)	1	2020	4	2021
<b><i>FY21 Events</i></b>				
Integrated Base Defense Security Systems (IBDSS-2)	1	2021	4	2022