Exhibit P-40, Budget Line Item Justification: PB 2020 Army

Date: March 2019

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2035A: Other Procurement, Army / BA 02: Communications and Electronics

9926BL5287 / Family of Persistent Surveillance Cap. (MIP)

Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

Program Elements for Code B Items: N/A Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2020	FY 2020	FY 2020					То	
Resource Summary	Years	FY 2018	FY 2019	Base	oco	Total	FY 2021	FY 2022	FY 2023	FY 2024	Complete	Total
Procurement Quantity (Units in Each)	-	-	16	-	-	-	-	-	-	-	-	16
Gross/Weapon System Cost (\$ in Millions)	178.493	19.935	20.050	-	71.493	71.493	71.493	-	-	-	-	361.464
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	178.493	19.935	20.050	-	71.493	71.493	71.493	-	-	-	-	361.464
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	178.493	19.935	20.050	-	71.493	71.493	71.493	-	-	-	-	361.464
(The following	Resource Sumi	mary rows are fo	r informational p	ourposes only. Th	he corresponding	budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	1,253.125	-	-	-	-	-	-	-	-	22,591.500

Description:

Persistent Surveillance Systems - Tethered (PSS-T) is a program of record comprised of 29 Large (formerly Persistent Threat Detection System (PTDS)) and 29 Medium (formerly Persistent Ground Surveillance System (PGSS)) sized Aerostats. PSS-T has been assigned to Army Program Executive Office for Intelligence, Electronic Warfare and Sensors (PEO IEW&S). Both tethered Aerostats are equipped with high resolution Electro-Optical/Infrared (EO/IR) camera systems and wide-area assessment sensors. Video collected by PSS-T is distributed to the Forward Operating Base and division commander information center as well as to quick reaction forces via Tactical Operations Center (TOC) Extension Kits, providing tactical commanders enhanced battlefield situational awareness.

PTDS - The baseline configuration includes the U.S. Army Research Lab's Unattended Transient Acoustic Measurement and Signature INTelligence (MASINT) System (UTAMS) which operationally cues the PTDS MX-20 EO/IR sensor to slew onto a target. The UTAMS is an acoustic sensor design consisting of sensor stations linked via radio to a base station. Each sensor station includes microphone arrays, signal processor, and display. The baseline PTDS also includes the Joint Synchronization Information Transmitter (JSIT) Mini-Tactical Common Data Link transmitter that transmits MX-20 video stream to ground forces equipped with One System Remote Video Terminal. Expendable-Unattended Ground Sensor (E-UGS) enhances the PTDS ability to detect enemy vehicle and footstep traffic and provides improved situational awareness and facilitates tactical response. PTDS continues to meet other urgent theater needs through system upgrades: adding High Antennas for Radio Communications (HARC) radio, the PRC-117G wide band radio, Tactical Targeting Network Technology (TTNT), Highband Networking Radio (HNR) as part of the aerial layer network extension architecture; transmitting weather data directly to Air Force Weather Agency (AFWA) via weather relay kits; added dual sensor capability; additional ground moving target indicator STARLite and wide area motion imagery Kestrel sensors, Persistent Surveillance Systems (PSS) Slew to Cue, coded laser target designation, and Survivability enhancements.

The PGSS has been a highly successful example of quickly delivering urgently needed capabilities to the Warfighter at remote forward operating bases (FOBs). PGSS continues to meet other urgent theater needs through system upgrades: adding HARC radio, the PRC-117G wide band radio, Quint Networking Technology (QNT), and micro-Enhanced Position Location Reporting System (EPLRS) as part of the aerial layer network extension architecture; transmitting weather data directly to AFWA via PGSS Weather Web, adding dual sensor capability; adding additional Vista, Kestrel, and wireless identification sensing platforms (WISP) sensors, PSS Slew to Cue, Precision Fires, coded laser target designation, and Survivability enhancements. Additionally, Expendable-Unattended Ground Sensor (E-UGS) enhances the PGSS ability to detect enemy vehicle and footstep traffic and provides improved situational awareness and facilitates tactical response.

Secondary	y Distribution	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024
Army	Quantity	-	16	-	-	-	-	-	-	-
	Total Obligation Authority	19.935	20.050	0.000	71.493	71.493	71.493	-	-	-

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LI 9926BL5287 - Family of Persistent Surveillance Cap. (...

Exhibit P-40, Budget Line Item Justification: PB 2020 Army

Date: March 2019

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2035A: Other Procurement, Army / BA 02: Communications and Electronics

9926BL5287 / Family of Persistent Surveillance Cap. (MIP)

Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

Secondary	/ Distribution	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024
Total:	Quantity	-	16	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	19.935	20.050	-	71.493	71.493	71.493	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2020 Army

Date: March 2019

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2035A: Other Procurement, Army / BA 02: Communications and Electronics

9926BL5287 / Family of Persistent Surveillance Cap. (MIP)

Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Exhibits Schedule				Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	BL5287 / Family of Persistent Surveillance Cap. (MIP)	P-5a, P-21	Α		- / 178.493	- / 19.935	16 / 20.050	- / -	- / 71.493	- /71.493
P-40	Total Gross/Weapon System Cost				- / 178.493	- / 19.935	16 / 20.050	- 1 -	- / 71.493	- / 71.493

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2020 Overseas Contingency Operations (OCO) Other Procurement Army (OPA) dollars in the amount of \$71.493 million supports Operation Freedom's Sentinel (OFS) and Operation Inherent Resolve (OIR) requirements. Of the \$71.493 million, \$53.620 million provides high dollar spares to support systems in OFS and \$17.873 million provides high dollar spares to support systems in OIR. High dollar spares kits include an Aerostat Envelope, Baseline Avionics Kit and MX Intelligence, Surveillance and Reconnaissance (ISR) cameras. The majority of funding is required for a large Surveillance and Reconnaissance (ISR) camera purchase.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2020 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 83

P-1 Line Item Number / Title:
9926BL5287 / Family of Persistent Surveillance Cap. (MIP)

Item Number / Title [DODIC]:
BL5287 / Family of Persistent Surveillance Cap. (MIP)

ID Code (A=Service Ready, B=Not Service Ready): A		ME	OAP/MAIS Code:			
Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	-	-	16	-	-	-
Gross/Weapon System Cost (\$ in Millions)	178.493	19.935	20.050	-	71.493	71.493
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	178.493	19.935	20.050	-	71.493	71.493
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	178.493	19.935	20.050	-	71.493	71.493
(The following Resource Summary rows are for informa	tional purposes only. The cort	responding budget request	s are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	1,253.125	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	Pı	rior Years	;		FY 2018			FY 2019		F۱	/ 2020 Ba	se	FY	2020 OC	0	FY	' 2020 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Flyaway Cost																		
Recurring Cost																		
Aerostat Envelope ^(†)	4,592.679	28	128.595	861.400	10	8.614	861.500	16	13.784	-	-	-	861.500	10	8.615	861.500	10	8.61
Baseline Avionics Kits ^(†)	442.091	22	9.726	358.692	13	4.663	359.167	12	4.310	-	-	-	359.158	19	6.824	359.158	19	6.82
Tactical Common Data Link ^(†)	433.882	17	7.376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pressurization Avionics Unit ^(†)	264.909	11	2.914	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
High Antenna Radio Communications (B- Kit) ^(†)	335.000	5	1.675	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISR Turret (MX-15)	1,800.000	4	7.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Envelope replacements ^(†)	801.571	7	5.611	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Office Support	-	-	1.740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	164.837	-	-	13.277	-	-	18.094	-	-	0.000	-	-	15.439	-	-	15.43
Subtotal: Flyaway Cost	-	-	164.837	-	-	13.277	-	-	18.094	-	-	0.000	-	-	15.439	-	-	15.43
Hardware Cost																		
Non Recurring Cost																		
ISR Turret (MX-25) ^(†)	1,707.000	8	13.656	2,219.333	3	6.658	1,956.000	1	1.956	-	-	-	2,001.929	28	56.054	2,001.929	28	56.05

LI 9926BL5287 - Family of Persistent Surveillance Cap. (... Army

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Exhibit P-5, Cost Analysis: PB 2020 Army

Date: March 2019

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2035A / 02 / 83

9926BL5287 / Family of Persistent Surveillance Cap. (MIP)

BL5287 / Family of Persistent Surveillance Cap. (MIP)

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

					<u> </u>													
	F	Prior Years	S		FY 2018			FY 2019		FY	/ 2020 Ba	se	F	Y 2020 OC	0	F'	Y 2020 Tot	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
Subtotal: Non Recurring Cost	-	-	13.656	-	=	6.658	-	-	1.956	-	-	0.000	-	-	56.054	-	-	56.054
Subtotal: Hardware Cost	-	-	13.656	-	-	6.658	-	-	1.956	-	-	0.000	-	-	56.054	-	-	56.054
Gross/Weapon System Cost	-	-	178.493	-	-	19.935	1,253.125	16	20.050	-	-	-	-	-	71.493	-	-	71.493

Secondar	y Distribution	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Army	Quantity	-	16	-	-	-
	Total Obligation Authority	19.935	20.050	0.000	71.493	71.493
Total:	Quantity	-	16	-	-	-
Secondary Distribution	Total Obligation Authority	19.935	20.050	-	71.493	71.493

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2020 Army

Appropriation / Budget Activity / Budget Sub Activity:

2035A / 02 / 83

P-1 Line Item Number / Title:

9926BL5287 / Family of Persistent Surveillance Cap. (MIP)

Date: March 2019

Item Number / Title [DODIC]:

BL5287 / Family of Persistent Surveillance Cap. (MIP)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
Aerostat Envelope ^(†)		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	Nov 2016	8	804.000	N		
Aerostat Envelope ^(†)		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Nov 2017	12	876.000	N		
Aerostat Envelope ^(†)		2018	Bravura Information Technology / Aberdeen, MD	Option / FFP	ACC-APG: APG, MD	Mar 2018	Oct 2018	10	861.400	Υ		
Aerostat Envelope ^(†)		2019	TBD / TBD	C / FFP	ACC-APG: APG,MD	May 2019	Dec 2019	16	861.500	Υ		
Aerostat Envelope ^(†)	1	2020	TBD / TBD	C / FFP	ACC-APG: APG,MD	May 2020	Dec 2020	10	861.500	Υ		
Baseline Avionics Kits ^(†)		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	Nov 2016	8	309.000	N		
Baseline Avionics Kits ^(†)		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Nov 2017	10	379.800	N		
Baseline Avionics Kits ^(†)		2018	Bravura Information Technology / Aberdeen, MD	Option / FFP	ACC-APG: APG, MD	Mar 2018	Dec 2018	13	358.692	Υ		
Baseline Avionics Kits ^(†)		2019	TBD / TBD	C / CPFF	ACC-APG: APG,MD	May 2019	Dec 2019	12	359.167	Y		
Baseline Avionics Kits ^(†)	1	2020	TBD / TBD	C / CPFF	ACC-APG: APG,MD	May 2020	Dec 2020	19	359.158	Υ		
Tactical Common Data Link		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	May 2017	8	161.000	N		
Tactical Common Data Link		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	May 2018	5	268.000	N		
Pressurization Avionics Unit		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	Sep 2016	6	241.000	N		
Pressurization Avionics Unit		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Sep 2017	5	281.000	N		
High Antenna Radio Communications (B-Kit)		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Aug 2018	5	335.000	N		
Envelope replacements		2016	TCOM / Elizabeth City, NC	SS / FFP	NAVAIR: Lakehurst NJ	Mar 2016	Aug 2016	1	410.000	N		
Envelope replacements		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Aug 2017	1	415.000	N		
ISR Turret (MX-25) ^(†)		2017	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG, MD	Aug 2017	Feb 2018	8	1,707.000	Y		
ISR Turret (MX-25) ^(†)		2018	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG, MD	Jun 2018	Dec 2018	3	2,219.333	Υ		
ISR Turret (MX-25) ^(†)		2019	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG,MD	Aug 2019	Feb 2020	1	1,956.000	Υ		
ISR Turret (MX-25) ^(†)	1	2020	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG,MD	Aug 2020	Feb 2021	28	2,001.929	Υ		

^(†) indicates the presence of a P-21

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LI 9926BL5287 - Family of Persistent Surveillance Cap. (... Army

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LI 9926BL5287 - Family of Persistent Surveillance Cap. (... Army

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Appropriation / Budget Activity / Budget Sub Activity: 926BL5287 / Family of Persistent Surveillance Cap. (MIP) Surveillance Cap. (MIP) Surveillance Cap. (MIP) Surveillance Cap. (MIP)	Secondary Seco	Exhib	it P	21, Pr	oducti	on Sc	hedul	e: PB	202	0 Arm	าง														Date	e: Ma	rch 2	2019				
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LI 9926BL5287 - Family of Persistent Surveillance Cap. (... Army

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Exhibit P-21, Production Schedule: PB 2020 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 83

P-1 Line Item Number / Title:
9926BL5287 / Family of Persistent Surveillance Cap. (MIP)

BL5287 / Family of Persistent Surveillance Cap. (MIP)

	Production Rates (Each / Month)			Month)	Procurement Leadtime (Months)							
MFR					Initial				Reorder			
Ref #	Manufacturer Name - Location	MSR For 2020	1-8-5 For 2020	MAX For 2020	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Akron, OH	1	25	50	0	0	0	0	0	0	0	0
2	TBD - TBD	1	20	50	0	5	4	9	0	0	0	0
3	Bravura Information Technology - Aberdeen, MD	1	40	100	0	2	3	5	0	0	0	0
4	Lockheed Martin - Akron, OH	1	25	50	0	0	0	0	0	0	0	0
5	TBD - TBD	1	20	50	0	5	4	9	0	0	0	0
6	Bravura Information Technology - Aberdeen, MD	1	40	100	0	2	3	5	0	0	0	0
7	L-3 Wescam - Burlington, ON	1	20	50	0	2	4	6	0	0	0	0

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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