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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects	P-1 Line Item Number / Title: 834050 / Battlefield Airborne Control Node (BACN)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	48.478	-	48.478	0.000	0.000	50.346	0.000	-	98.824
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	48.478	-	48.478	0.000	0.000	50.346	0.000	-	98.824
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	48.478	-	48.478	0.000	0.000	50.346	0.000	-	98.824

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Battlefield Airborne Communication Node (BACN) provides a flexible, long-endurance, responsive airborne communications capability. BACN provides a dedicated airborne capability to conduct voice bridge translation, Tactical Data Link (TDL) gateway and TDL relay functions for beyond-line-of-sight (BLOS) data communications. This BACN payload is controlled by ground stations that are comprised of two support elements: a Payload Control Element - Launch (PCE-L) and Payload Control Element - Mission (PCE-M). The Rapidly Deployable Payload Control Element (RD-PCE) will provide the same PCE-L and PCE-M functionality in rapidly deployable configuration.

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.

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Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834050 / Battlefield Airborne Control Node (BACN)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/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)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E-11A		A		- / 0.000	- / 0.000	- / 0.000	4 / 8.918	- / -	4 / 8.918
P-5	Battlefield Abn Comm Node (BACN)		A		- / 0.000	- / 0.000	- / 0.000	8 / 39.560	- / -	8 / 39.560
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	- / 48.478	- / -	- / 48.478

*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:

This program, PE 0207238F P-5, is a new start.
 This program, PE 0207610F P-5, is a new start.

Battlefield Airborne Communication Node (BACN) provides a flexible, long-endurance, responsive airborne communications capability. BACN provides a dedicated airborne capability to conduct voice bridge translation, Tactical Data Link (TDL) gateway and TDL relay functions for beyond-line-of-sight (BLOS) data communications. This BACN payload is controlled by ground stations that are comprised of two support elements: a Payload Control Element - Launch (PCE-L) and Payload Control Element - Mission (PCE-M). The Rapidly Deployable Payload Control Element (RD-PCE) will provide the same PCE-L and PCE-M functionality in rapidly deployable configuration.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834050 / Battlefield Airborne Control Node (BACN)	Item Number / Title [DODIC]: E-11A

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	4	-	4
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	8.918	-	8.918
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	8.918	-	8.918
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	8.918	-	8.918

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	2.230	-	2.230

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - 0207238F Cost																		
Non Recurring Cost																		
Rapidly Deployable Fly-Away Kit	-	-	0.000	-	-	0.000	-	-	0.000	2.230	4	8.918	-	-	-	2.230	4	8.918
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	8.918	-	-	-	-	-	8.918
<i>Subtotal: Hardware - 0207238F Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	8.918	-	-	-	-	-	8.918
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	0.000	2.230	4	8.918	-	-	-	2.230	4	8.918

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Exhibit P-5, Cost Analysis: PB 2020 Air Force					Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4			P-1 Line Item Number / Title: 834050 / Battlefield Airborne Control Node (BACN)			Item Number / Title [DODIC]: Battlefield Abn Comm Node (BACN)		
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (<i>Units in Each</i>)			-	-	-	8	-	8
Gross/Weapon System Cost (<i>\$ in Millions</i>)			0.000	0.000	0.000	39.560	-	39.560
Less PY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)			0.000	0.000	0.000	39.560	-	39.560
Plus CY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)			0.000	0.000	0.000	39.560	-	39.560
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (<i>\$ in Millions</i>)			-	0.000	0.000	0.000	-	0.000
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)			-	-	-	4.945	-	4.945

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Battlefield Airborne Control Node (BACN) Cost																		
Non Recurring Cost																		
Rapidly Deployable Payload Control Element	-	-	0.000	-	-	0.000	-	-	0.000	4.945	8	39.560	-	-	-	4.945	8	39.560
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	39.560	-	-	-	-	-	39.560
<i>Subtotal: Hardware - Battlefield Airborne Control Node (BACN) Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	39.560	-	-	-	-	-	39.560
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	0.000	4.945	8	39.560	-	-	-	4.945	8	39.560