

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207610F
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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	70.027	-	70.027	33.691	25.347	53.133	89.719	-	271.917
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	0.000	70.027	-	70.027	33.691	25.347	53.133	89.719	-	271.917
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>0.000</b>	<b>0.000</b>	<b>70.027</b>	-	<b>70.027</b>	<b>33.691</b>	<b>25.347</b>	<b>53.133</b>	<b>89.719</b>	-	<b>271.917</b>

*(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:**

This line item funds multiple modifications that apply to weapon systems funded at less than \$2 million per year as well as weapon systems with much greater budgets. The overall goal of the modifications budgeted is to enhance capability and improve reliability and maintainability.

Funding contained in this platform's documentation directly aids simulator aircraft training systems training enterprise to continue its overall FYDP pilot production increase thus reducing the USAF Pilot Shortage.

Funding will also be used to procure and integrate the Fifth-To-Fourth Generation Gateway (524 GW) Capability onto EQ-4B BACN fleet.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

AFAF funding for this exhibit contained in PE 0207238F. Development efforts are under PE 0207610F/RDT&E.

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 mission, domestic emergency responses, and providing military support to civilian authorities.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG
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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: 0207610F
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**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-3a	1 / E-11 Mods (Other)		A		- / -	- / 0.000	- / 0.000	- / 70.027	- / 0.000	- / 70.027
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 70.027</b>	<b>- / -</b>	<b>- / 70.027</b>

Exhibits Schedule					FY 2021	FY 2022	FY 2023	FY 2024	To Complete	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-3a	1 / E-11 Mods (Other)		A		- / 33.691	- / 25.347	- / 53.133	- / 89.719	- / -	- / 271.917
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 33.691</b>	<b>- / 25.347</b>	<b>- / 53.133</b>	<b>- / 89.719</b>	<b>- / -</b>	<b>- / 271.917</b>

\*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:**  
 Where applicable, justification for individual modifications is provided in the P-3A exhibits.

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<b>Exhibit P-3a, Individual Modification:</b> PB 2020 Air Force		<b>Date:</b> March 2019
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2	<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG	<b>Modification Number / Title:</b> 1 / E-11 Mods

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>	<b>FY 2020 Total</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	0.000	70.027	0.000	70.027	33.691	25.347	53.133	89.719	-	271.917
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	0.000	70.027	0.000	70.027	33.691	25.347	53.133	89.719	-	271.917
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>0.000</b>	<b>70.027</b>	<b>0.000</b>	<b>70.027</b>	<b>33.691</b>	<b>25.347</b>	<b>53.133</b>	<b>89.719</b>	-	<b>271.917</b>

*(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> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Battlefield Airborne Communication Node (BACN) provides a Combatant Commander (CCDR) flexible, long-endurance, responsive airborne communications capability. BACN provides a dedicated airborne capability to conduct voice bridging/translation, Tactical Data Link (TDL) gateway, and TDL relay functions for beyond-line-of-sight (BLOS) data communications.

Funding will support procurement of aircraft engines to increase current BACN fleet service life expectancy. Funding also supports procurement of platform provisioning supplies.

Funding will also be used to procure and integrate the Fifth-To-Fourth Generation Gateway (524 GW) Capability onto EQ-4B BACN fleet.

Funding will support procurement and installation of retrofit kits to integrate Link 16 External Time Reference (ETR) with Global Positioning System (GPS) capability.

**Milestone/Development Status**

BACN includes the payload, its host platforms, and associated ground systems. The program is currently in the Operations and Support (O&S) Phase of the Life Cycle Management System. As requirements emerge for new hardware and software capabilities that improve system performance, external time references, interoperability and open mission system technologies, BACN will host the integration of these and future communication technologies. Funding will be used to address Diminishing Manufacturing Sources (DMS) Issues. This may include modifications required for enhanced capability and improvements to system reliability and maintainability. Safety of flight considerations, including but not limited to, performance, aircraft structural integrity, availability, and continuity of service requirements for long range reference, local area reference, and landing/terminal reference. This effort includes Military GPS, advanced navigation systems and any additional mandates levied on the BACN system and platforms. Funding will also be used for fulfillment of requirements in support of alteration, conversion, modernization, and transition to a normalized Program of Record. Transition to BACN Program of Record may require additional BACN aircraft platforms to meet the service retained capability requirements of Combatant Commanders needs emerge in multiple AOR's. This will include, but not be limited to, standardization of avionics baseline and the production of all Supplemental Type Certificates of the most up to date configurations of the fleet.

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<b>Exhibit P-3a, Individual Modification: PB 2020 Air Force</b>											<b>Date: March 2019</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2				<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG				<b>Modification Number / Title:</b> 1 / E-11 Mods				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>					
<b>Models of Systems Affected:</b> E-11A			<b>Modification Type:</b> Other				<b>Related RDT&amp;E PEs:</b> 0207610F					
Financial Plan	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
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>												
<b>Modification Item 1 of 9: Aircraft Support Equipment</b>												
A Kits												
Recurring												
Aircraft Support Equipment:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.964	- / -	- / -	- / -	- / -	1 / 3.964
<b>Subtotal: Recurring</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.964	- / -	- / -	- / -	- / -	- / 3.964
<b>Subtotal: Aircraft Support Equipment</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.964	- / -	- / -	- / -	- / -	- / 3.964
<b>Modification Item 2 of 9: E-11A Modification</b>												
A Kits												
Recurring												
E-11A Modification:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 74.530	- / -	1 / 74.530
<b>Subtotal: Recurring</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 74.530	- / -	- / 74.530
<b>Subtotal: E-11A Modification</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 74.530	- / -	- / 74.530
<b>Modification Item 3 of 9: E-11A Survivability</b>												
A Kits												
Recurring												
E-11A Survivability:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	4 / 10.307	- / -	1 / 8.136	1 / 4.018	- / -	6 / 22.461
<b>Subtotal: Recurring</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.307	- / -	- / 8.136	- / 4.018	- / -	- / 22.461
<b>Subtotal: E-11A Survivability</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.307	- / -	- / 8.136	- / 4.018	- / -	- / 22.461
<b>Modification Item 4 of 9: Engines</b>												
A Kits												
Recurring												
Engines:INSTALL KITS Group A (Active)	- / -	- / -	- / -	4 / 54.782	- / -	4 / 54.782	- / -	- / -	- / -	- / -	- / -	4 / 54.782
<b>Subtotal: Recurring</b>	- / -	- / -	- / -	- / 54.782	- / -	- / 54.782	- / -	- / -	- / -	- / -	- / -	- / 54.782
<b>Subtotal: Engines</b>	- / -	- / -	- / -	- / 54.782	- / -	- / 54.782	- / -	- / -	- / -	- / -	- / -	- / 54.782
<b>Modification Item 5 of 9: Link 16 ETR</b>												
A Kits												
Recurring												
Link 16 ETR:INSTALL KITS Group A (Active)	- / -	- / -	- / -	8 / 12.778	- / -	8 / 12.778	- / -	- / -	- / -	- / -	- / -	8 / 12.778
<b>Subtotal: Recurring</b>	- / -	- / -	- / -	- / 12.778	- / -	- / 12.778	- / -	- / -	- / -	- / -	- / -	- / 12.778
<b>Subtotal: Link 16 ETR</b>	- / -	- / -	- / -	- / 12.778	- / -	- / 12.778	- / -	- / -	- / -	- / -	- / -	- / 12.778

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<b>Exhibit P-3a, Individual Modification: PB 2020 Air Force</b>										<b>Date: March 2019</b>			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2					<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG					<b>Modification Number / Title:</b> 1 / E-11 Mods			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> E-11A				<b>Modification Type:</b> Other				<b>Related RDT&amp;E PEs:</b> 0207610F					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Modification Item 6 of 9: MIDS-J</b>													
A Kits													
Recurring													
MIDS-J:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 9.796	- / -	- / -	- / -	4 / 9.796	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.796	- / -	- / -	- / -	- / 9.796	
<i>Subtotal: MIDS-J</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.796	- / -	- / -	- / -	- / 9.796	
<b>Modification Item 7 of 9: Platform Provision</b>													
A Kits													
Recurring													
Platform Provision:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	4 / 11.221	- / -	- / -	- / -	- / -	4 / 11.221	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.221	- / -	- / -	- / -	- / -	- / 11.221	
<i>Subtotal: Platform Provision</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.221	- / -	- / -	- / -	- / -	- / 11.221	
<b>Modification Item 8 of 9: Protected Tactical Waveform (PTW)</b>													
A Kits													
Recurring													
Protected Tactical Waveform (PTW):INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 42.279	1 / 4.998	- / -	5 / 47.277	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.279	- / 4.998	- / -	- / 47.277	
<i>Subtotal: Protected Tactical Waveform (PTW)</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.279	- / 4.998	- / -	- / 47.277	
<b>Modification Item 9 of 9: Simulators</b>													
A Kits													
Recurring													
Simulators:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 13.551	- / -	- / -	- / -	4 / 13.551	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.551	- / -	- / -	- / -	- / 13.551	
<i>Subtotal: Simulators</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.551	- / -	- / -	- / -	- / 13.551	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 67.560	- / -	- / 67.560	- / 25.492	- / 23.347	- / 50.415	- / 83.546	- / -	- / 250.360	
<b>Support (All Modification Items)</b>													
PMA - Contractor Services	- / -	- / -	- / -	- / 12.467	- / -	- / 12.467	- / 18.199	- / 2.000	- / 2.718	- / 6.173	- / -	- / 21.557	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 12.467	- / -	- / 12.467	- / 18.199	- / 2.000	- / 2.718	- / 6.173	- / -	- / 21.557	
<b>Installation</b>													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2020 Air Force										<b>Date:</b> March 2019		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2				<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG						<b>Modification Number / Title:</b> 1 / E-11 Mods		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>					
<b>Models of Systems Affected:</b> E-11A				<b>Modification Type:</b> Other				<b>Related RDT&amp;E PEs:</b> 0207610F				
Financial Plan	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
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	-	0.000	0.000	70.027	0.000	70.027	33.691	25.347	53.133	89.719	-	271.917

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<b>Exhibit P-3a, Individual Modification:</b> PB 2020 Air Force						<b>Date:</b> March 2019	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2			<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG			<b>Modification Number / Title:</b> 1 / E-11 Mods	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 1 of 9:</b> Aircraft Support Equipment							
<b>Manufacturer Information</b>							
Manufacturer Name: Northrop Grumman				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
<b>Dates</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Contract Dates			Mar 2020	May 2021	Jan 2022	Feb 2023	Jan 2024
Delivery Dates			Jun 2020	Aug 2021	Apr 2022	May 2023	Apr 2024
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		

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<b>Exhibit P-3a, Individual Modification:</b> PB 2020 Air Force						<b>Date:</b> March 2019	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2			<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG			<b>Modification Number / Title:</b> 1 / E-11 Mods	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 2 of 9:</b> E-11A Modification							
<b>Manufacturer Information</b>							
Manufacturer Name: Northrop Grumman				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
<b>Dates</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Contract Dates			Mar 2020	Jan 2021	Jan 2022	Jan 2023	Jun 2024
Delivery Dates			Jun 2020	Apr 2021	Apr 2022	Apr 2023	Sep 2024
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		



**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2020 Air Force						<b>Date:</b> March 2019	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2			<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG			<b>Modification Number / Title:</b> 1 / E-11 Mods	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 3 of 9:</b> E-11A Survivability							
<b>Manufacturer Information</b>							
Manufacturer Name: Northrop Grumman				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
<b>Dates</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Contract Dates			Jan 2020	May 2021	Jan 2022	May 2023	Jun 2024
Delivery Dates			Apr 2020	Aug 2021	Apr 2022	Aug 2023	Sep 2024
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		

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<b>Exhibit P-3a, Individual Modification:</b> PB 2020 Air Force						<b>Date:</b> March 2019	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2			<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG			<b>Modification Number / Title:</b> 1 / E-11 Mods	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 4 of 9:</b> Engines							
<b>Manufacturer Information</b>							
Manufacturer Name: Rolls Royce				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
<b>Dates</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Contract Dates			May 2020	Jan 2021	Jan 2022	Jan 2023	Jan 2024
Delivery Dates			Aug 2020	Apr 2021	Apr 2022	Apr 2023	Apr 2024
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2020 Air Force						<b>Date:</b> March 2019	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2			<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG			<b>Modification Number / Title:</b> 1 / E-11 Mods	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 5 of 9:</b> Link 16 ETR							
<b>Manufacturer Information</b>							
Manufacturer Name: Raytheon				Manufacturer Location: Various			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 3			
<b>Dates</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Contract Dates			May 2020	Jan 2021	Jan 2022	Jan 2023	Jan 2024
Delivery Dates			Aug 2020	Apr 2021	Apr 2022	Apr 2023	Apr 2024
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate						<b>Installation Quantity:</b> 0	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2020 Air Force						<b>Date:</b> March 2019	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2			<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG			<b>Modification Number / Title:</b> 1 / E-11 Mods	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 6 of 9:</b> MIDS-J							
<b>Manufacturer Information</b>							
Manufacturer Name: Raytheon				Manufacturer Location: Various			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
<b>Dates</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Contract Dates			Apr 2020	Apr 2021	May 2022	May 2023	May 2024
Delivery Dates			Oct 2020	Oct 2021	Nov 2022	Nov 2023	Nov 2024
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		

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<b>Exhibit P-3a, Individual Modification:</b> PB 2020 Air Force						<b>Date:</b> March 2019	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2			<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG			<b>Modification Number / Title:</b> 1 / E-11 Mods	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 7 of 9:</b> Platform Provision							
<b>Manufacturer Information</b>							
Manufacturer Name: Northrop Grumman				Manufacturer Location: San Diego, CA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
<b>Dates</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Contract Dates			Jan 2020	May 2021	Jan 2022	Jan 2023	Jan 2024
Delivery Dates			Apr 2020	Aug 2021	Apr 2022	Apr 2023	Apr 2024
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		

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<b>Exhibit P-3a, Individual Modification:</b> PB 2020 Air Force						<b>Date:</b> March 2019	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2			<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG			<b>Modification Number / Title:</b> 1 / E-11 Mods	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 8 of 9:</b> Protected Tactical Waveform (PTW)							
<b>Manufacturer Information</b>							
Manufacturer Name: Northrop Grumman				Manufacturer Location: Middle River, MD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
<b>Dates</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Contract Dates			Jan 2020	Jan 2021	Jan 2022	May 2023	May 2024
Delivery Dates			Apr 2020	Apr 2021	Apr 2022	Aug 2023	Aug 2024
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		

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<b>Exhibit P-3a, Individual Modification:</b> PB 2020 Air Force						<b>Date:</b> March 2019	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 2			<b>P-1 Line Item Number / Title:</b> E011A0 / E-11 BACN/HAG			<b>Modification Number / Title:</b> 1 / E-11 Mods	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 9 of 9:</b> Simulators							
<b>Manufacturer Information</b>							
Manufacturer Name: Northrop Grumman				Manufacturer Location: San Diego, CA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
<b>Dates</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Contract Dates			Jan 2020	Jan 2021	May 2022	Jan 2023	Jan 2024
Delivery Dates			Apr 2020	Apr 2021	Aug 2022	Apr 2023	Apr 2024
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		