

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2016 Navy **Date:** February 2015

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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<b>Line Item MDAP/MAIS Code:</b> 000	<b>Item MDAP/MAIS Code(s):</b>
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
<i>Procurement Quantity (Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Cost (\$ in Millions)</i>	1,402.450	26.098	21.208	20.741	-	20.741	27.214	88.791	85.386	85.979	362.482	2,120.349
<i>Less PY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Net Procurement (P1) (\$ in Millions)</i>	1,402.450	26.098	21.208	20.741	-	20.741	27.214	88.791	85.386	85.979	362.482	2,120.349
<i>Plus CY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1,402.450</b>	<b>26.098</b>	<b>21.208</b>	<b>20.741</b>	<b>-</b>	<b>20.741</b>	<b>27.214</b>	<b>88.791</b>	<b>85.386</b>	<b>85.979</b>	<b>362.482</b>	<b>2,120.349</b>

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

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

**Description:**

This line item funds modifications to the E-2 aircraft. The E-2 is an all weather, carrier based, airborne early warning and command and control aircraft that extends task force defense perimeters by providing early warning of approaching enemy units and by vectoring interceptors into attack position. Additionally, the HAWKEYE provides strike control, radar surveillance, search and rescue assistance, communications relay and automatic tactical data exchange. The E-2 aircraft design service life is 10,000 flight hours with an average service life remaining through FY2020. As the result of technological advancements, the Commercial-Off-The-Shelf (COTS) hardware/software of the Mission Computer (MCU) will change or become obsolete in the very near future.

The Technology Insertion Operational, Safety and Improvement Program (OSIP) (5-01) supports assembly, validation and configuration management of COTS hardware and software of the MCU. The Critical Avionics OSIP (12-10) funds the obsolescence and hazard mitigation efforts for all primary and secondary sensors, communication media and basic navigation aids. The Radar Improvement program OSIP (5-11) supports portions of it's APS-145 Radar architecture dated from the 1960s and serious obsolescence issues are expected to disrupt normal operations if left unmitigated. The Dual Transmit Satellite Communications OSIP (8-14), provides the E-2 with an additional Satellite Communications radio satisfying a capability gap that is identified in Operation Enduring Freedom. The MODE 5/S OSIP (9-14) replaces the National Security Administration (NSA) de-certified Mode 4 Identification Friend or Foe (IFF) capability, which is no longer effective or suitable for modern military operations. Mode 5/S will support the Joint Initial Operational Capability as defined by the Joint Requirements Oversight Council. The E-2D Avionics OSIP (11-14) will fund the ARC-210 Gen 5 upgrades required to remain compliant with NSA Directives. Mode 5/S replaces de-certified Mode 4 and civilian Mark XII IFF allowing the E-2D to operate worldwide with modern civilian and military air traffic management systems as required by the Chief of Naval Operations Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM) mandate. The E-2D Aircraft Airframe Change Directives (ACDs) OSIP (5-15), will retrofit Initial Operational Test and Evaluation (IOT&E) ACDs and Engineering Change Proposals (ECPs) into the E-2D Low Rate Production (LRIP) aircraft. The E-2D Integrated Broadcast Service-Universal Serial Bus-Embedded National Tactical Receiver (IBS-USB-ENTR) OSIP (8-17), will procure and install kits to provide the E-2D with the capability to receive IBS intelligence data from national assets for real-time, emergent threat or Combat ID data, compressing tactical engagement timeline for both Naval Integrated Fire Control - Counter Air (NIFC-CA) kill chains. The E-2D AIS OSIP (9-16), will provide enhanced maritime target Combat ID capability in support of Battlefield Management, Command and Control (BMC2) and Surface Warfare (SUW) mission capability. The LINK-16 OSIP (1-17), will address E-2C flight and mission critical avionics obsolescence and fact-of-life sustainment issues required to maintain current operational capabilities. The E-2D Multifunctional Information Distribution System/Joint Tactical Radio System and Tactical Targeting Network Targeting OSIP (1-18) wave form will integrate the current E-2D Link-16 data link architecture with a time-sensitive targeting technology. The E-2D Aerial Refueling (AR) OSIP (2-18), will allow the E-2 to receive fuel from various organic and non-organic tanker aircraft. It will provide Expanded Battle Space Surveillance and Targeting through significantly enhanced persistence and increased flexibility (range & endurance). The E-2D Secret Internet Protocol Router Chat OSIP (3-18), will support the integration of current collaboration tools including tactical "chat" (text) communications, real-time tasking, and Air Tasking Order distribution. Recent real world operations have demonstrated a migration of Command and Control communications from voice to Internet protocol based networks. There is 53 E-2C's and 14 E-2D's for a total of 67 E-2 aircraft.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Navy		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>Line Item MDAP/MAIS Code:</b> 000	<b>Item MDAP/MAIS Code(s):</b>	

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**Exhibit P-40, Budget Line Item Justification: PB 2016 Navy** **Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**  
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

**P-1 Line Item Number / Title:**  
0544 / E-2 Series

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

**Line Item MDAP/MAIS Code:** 000 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	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)
1 / 005-01 Technology Insertion (Mission Performance Enhancement)	P-3a		- / 106.068	- / 10.830	- / 5.632	- / 5.630	- / -	- / 5.630
2 / 012-10 Critical Avionics (Mission Performance Enhancements)	P-3a		- / 65.737	- / 6.077	- / -	- / -	- / -	- / -
3 / 005-11 Radar Improvement Program (Mission Performance Enhancements)	P-3a		- / 10.231	- / 3.050	- / 2.800	- / 0.464	- / -	- / 0.464
4 / 008-14 Dual Transmit SATCOM (Mission Performance Enhancements)	P-3a		- / 0.000	- / -	- / 2.744	- / 6.521	- / -	- / 6.521
5 / 009-14 MODE 5/S (Mission Performance Enhancements)	P-3a		- / 0.000	- / 4.415	- / 3.458	- / 3.348	- / -	- / 3.348
6 / 011-14 E-2D Avionics (Mission Performance Enhancements)	P-3a		- / 0.000	- / 1.726	- / 5.784	- / 1.900	- / -	- / 1.900
7 / 005-15 E-2D Aircraft ACD's (Mission Performance Enhancements)	P-3a		- / 0.000	- / -	- / 0.790	- / 1.540	- / -	- / 1.540
10 / 008-17 E-2D IBS-USB-ENTR (Missions Performance Enhancements)	P-3a		- / 0.000	- / -	- / -	- / -	- / -	- / -
8 / 009-16 E-2D AIS (Mission Performance Enhancements)	P-3a		- / 0.000	- / -	- / -	- / 1.338	- / -	- / 1.338
9 / 001-17 LINK 16 (MIDS/JTIDS for E-2C) (Mission Performance Enhancements)	P-3a		- / 0.000	- / -	- / -	- / -	- / -	- / -
11 / 001-18 E-2D MIDS/JTRS TTNT (Mission Performance Enhancements)	P-3a		- / 0.000	- / -	- / -	- / -	- / -	- / -
12 / 002-18 E-2D Aerial Refueling (Mission Performance Enhancements)	P-3a		- / 0.000	- / -	- / -	- / -	- / -	- / -
13 / 003-18 E-2D SIPR CHAT (Mission Performance Enhancements)	P-3a		- / 0.000	- / -	- / -	- / -	- / -	- / -
14 / Inactive OSIPs ()	P-3a		- / 1,220.414	- / -	- / -	- / -	- / -	- / -
<b>Total Gross/Weapon System Cost</b>			<b>- / 1,402.450</b>	<b>- / 26.098</b>	<b>- / 21.208</b>	<b>- / 20.741</b>	<b>- / -</b>	<b>- / 20.741</b>

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	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)
1 / 005-01 Technology Insertion (Mission Performance Enhancement)	P-3a		- / 5.677	- / 5.797	- / 5.943	- / 6.055	- / 25.169	- / 176.801
2 / 012-10 Critical Avionics (Mission Performance Enhancements)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 71.814
3 / 005-11 Radar Improvement Program (Mission Performance Enhancements)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 16.545
4 / 008-14 Dual Transmit SATCOM (Mission Performance Enhancements)	P-3a		- / 7.390	- / 7.677	- / 1.180	- / -	- / -	- / 25.512
5 / 009-14 MODE 5/S (Mission Performance Enhancements)	P-3a		- / 2.503	- / -	- / -	- / -	- / -	- / 13.724
6 / 011-14 E-2D Avionics (Mission Performance Enhancements)	P-3a		- / 0.432	- / -	- / -	- / -	- / -	- / 9.842
7 / 005-15 E-2D Aircraft ACD's (Mission Performance Enhancements)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 2.330
10 / 008-17 E-2D IBS-USB-ENTR (Missions Performance Enhancements)	P-3a		- / 2.910	- / 7.198	- / 1.088	- / -	- / -	- / 11.196
8 / 009-16 E-2D AIS (Mission Performance Enhancements)	P-3a		- / 3.526	- / 0.964	- / -	- / -	- / -	- / 5.828
9 / 001-17 LINK 16 (MIDS/JTIDS for E-2C) (Mission Performance Enhancements)	P-3a		- / 4.776	- / 2.841	- / 0.863	- / -	- / -	- / 8.480
11 / 001-18 E-2D MIDS/JTRS TTNT (Mission Performance Enhancements)	P-3a		- / -	- / 19.127	- / 16.316	- / 16.713	- / 15.756	- / 67.912
12 / 002-18 E-2D Aerial Refueling (Mission Performance Enhancements)	P-3a		- / -	- / 36.155	- / 55.147	- / 58.514	- / 316.755	- / 466.571
13 / 003-18 E-2D SIPR CHAT (Mission Performance Enhancements)	P-3a		- / -	- / 9.032	- / 4.849	- / 4.697	- / 4.802	- / 23.380
14 / Inactive OSIPs ()	P-3a		- / -	- / -	- / -	- / -	- / -	- / 1,220.414

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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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<b>Line Item MDAP/MAIS Code:</b> 000	<b>Item MDAP/MAIS Code(s):</b>
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Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	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)
<b>Total Gross/Weapon System Cost</b>			- / 27.214	- / 88.791	- / 85.386	- / 85.979	- / 362.482	- / 2,120.349

\*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 add due to rounding.

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**Exhibit P-3a, Individual Modification: PB 2016 Navy** **Date:** February 2015

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 1 / 005-01 Technology Insertion
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	106.068	10.830	5.632	5.630	-	5.630	5.677	5.797	5.943	6.055	25.169	176.801
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	106.068	10.830	5.632	5.630	-	5.630	5.677	5.797	5.943	6.055	25.169	176.801
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>106.068</b>	<b>10.830</b>	<b>5.632</b>	<b>5.630</b>	<b>-</b>	<b>5.630</b>	<b>5.677</b>	<b>5.797</b>	<b>5.943</b>	<b>6.055</b>	<b>25.169</b>	<b>176.801</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 Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Technology Insertion OSIP was established to address obsolescence of Commercial Off-The Shelf (COTS) software and hardware of E-2 computing resources. Commercial technology obsolescence drives hardware and software changes in Computing Resources for the E-2 Aircraft. Funding is required to support capability for assembly, validation, and configuration management of COTS hardware/software provided to fleet squadrons and updated on a 4-year technology cycle. Specific examples include video boards, memory boards, Computer Processing Units cards, compilers, middleware, backplanes, and operating systems that will change or become obsolete.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

The E-2 Program Support Activity will insure software is upgraded, revised, and integrated so it functions with the versions of the COTS hardware and software delivered. The integration effort must start no less than one year prior to the delivery.

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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>										<b>Date:</b> February 2015			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1					<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series					<b>Modification Number / Title:</b> 1 / 005-01 Technology Insertion			
<b>Models of Systems Affected:</b> E-2C					<b>Modification Type:</b> Mission Performance Enhancement					<b>Related RDT&amp;E PEs:</b>			
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<b>Procurement</b>													
<i>Modification Item 1 of 1: 005-01 Technology Insertion</i>													
A Kits													
Recurring													
1.1.1) OCO Maritime Automatic Identification System - Organic	42 / 0.738	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 0.738	
<i>Subtotal: Recurring</i>	<i>- / 0.738</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.738</i>	
Non-Recurring													
1.2.1) OCO Maritime Automatic Identification System - Organic	- / 0.094	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.094	
<i>Subtotal: Non-Recurring</i>	<i>- / 0.094</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.094</i>	
<i>Subtotal: 005-01 Technology Insertion</i>	<i>42 / 0.832</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>42 / 0.832</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.832</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.832</i>	
<b>Support (All Modification Items)</b>													
3.1) Data	- / 0.827	- / -	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.100	- / 1.077	
3.2) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
3.3) Software Upgrades	- / -	- / 4.301	- / 3.467	- / 3.369	- / -	- / 3.369	- / 3.279	- / 3.225	- / 3.206	- / 3.138	- / 16.573	- / 40.558	
3.4) Training Equipment	- / -	- / 4.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.500	
3.5) Support Equipment	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
3.6) ILS	- / 6.391	- / 0.670	- / 0.672	- / 0.641	- / -	- / 0.641	- / 0.669	- / 0.701	- / 0.718	- / 0.738	- / 3.281	- / 14.481	
3.7) Other Support	- / 98.018	- / 1.359	- / 1.468	- / 1.595	- / -	- / 1.595	- / 1.704	- / 1.846	- / 1.994	- / 2.154	- / 5.215	- / 115.353	
3.8) Interim Contractor Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	<i>- / 105.236</i>	<i>- / 10.830</i>	<i>- / 5.632</i>	<i>- / 5.630</i>	<i>- / -</i>	<i>- / 5.630</i>	<i>- / 5.677</i>	<i>- / 5.797</i>	<i>- / 5.943</i>	<i>- / 6.055</i>	<i>- / 25.169</i>	<i>- / 175.969</i>	
<b>Installation</b>													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>106.068</b>	<b>10.830</b>	<b>5.632</b>	<b>5.630</b>	<b>-</b>	<b>5.630</b>	<b>5.677</b>	<b>5.797</b>	<b>5.943</b>	<b>6.055</b>	<b>25.169</b>	<b>176.801</b>	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy	<b>Date:</b> February 2015
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 1 / 005-01 Technology Insertion
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**Modification Item 1 of 1:** 005-01 Technology Insertion

**Manufacturer Information**

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months):	Production Leadtime (in Months):
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Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

**Installation Information**

<b>Method of Implementation (Organic):</b> Organic - OCO Maritime Automatic Identification System	<b>Installation Quantity:</b> 42
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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>							<b>Date:</b> February 2015					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1				<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series				<b>Modification Number / Title:</b> 2 / 012-10 Critical Avionics				

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	65.737	6.077	-	-	-	-	-	-	-	-	-	71.814
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	65.737	6.077	-	-	-	-	-	-	-	-	-	71.814
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>65.737</b>	<b>6.077</b>	-	-	-	-	-	-	-	-	-	<b>71.814</b>
<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> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Critical Avionics addresses E-2 avionics obsolescence, reliability, functionality and hazard mitigation efforts for primary and secondary sensors, communication, and navigation systems. Improves the reliability and functionality of the current E-2 fixed wire High Frequency (HF) antenna which supports only a single radio and breaks often, creating safety and operational impacts by upgrading to an antenna suite which is more reliable, capable and provides multiple transmission paths on and off the aircraft. Addresses obsolescence and improves the reliability and functionality of the current HF radio set by upgrading to a more capable and reliable radio suite which includes automatic link establishment, secure data and voice capability and additional voice and data channels. Addresses obsolescence and improves the reliability and functionality of the current Satellite Communications receive system (MATT) radio by upgrading to a radio which can receive current and future broadcast waveforms, can communicate using current and future cryptographic algorithms and can be integrated with the E-2 weapons systems more effectively, reducing startup, load, and set up time and reducing operator workload and troubleshooting requirements. Addresses obsolescence and improves the reliability and functionality of the current Very/Ultra High Frequency radios by incorporating an improved ARC-210 radio which includes secure data and voice capability using current and future cryptographic algorithms and which includes a growth path to future applications such as Joint Precision Approach and Landing System.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:**

MATT Replacement USB Embedded National Tactical Receiver completed Tempest testing in February 2012. Flight testing began in March 2012 and completed May 2012. Procurement of kits began in FY10. HF Antenna Naval Supply Systems Command (NAVSUP) validation (with Legacy Radio) occurred in March 2012. HE2K validation (with AN/ARC-239 Selex Radio) September 2012. NAVSUP Verification October 2012. Procurement of kits began in FY11.



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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>										<b>Date:</b> February 2015			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1					<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series					<b>Modification Number / Title:</b> 2 / 012-10 Critical Avionics			
<b>Models of Systems Affected:</b> E-2C				<b>Modification Type:</b> Mission Performance Enhancements				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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>													
<i>Modification Item 1 of 1:</i> 012-10 Critical Avionics													
A Kits													
Recurring													
1.1.1) MATT REPLACEMENT - NonOrganic	28 / 4.111	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 4.111	
1.1.2) HF ANTENNA - NonOrganic	21 / 0.115	7 / 0.034	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.149	
1.1.3) HF RADIO - NonOrganic	28 / 4.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 4.289	
<i>Subtotal: Recurring</i>	- / 8.515	- / 0.034	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.549	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 7.811	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.811	
<i>Subtotal: Non-Recurring</i>	- / 7.811	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.811	
B Kits													
Recurring													
2.1.1) MATT REPLACEMENT - Organic	28 / 2.980	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 2.980	
2.1.2) HF RADIO - Organic	28 / 4.489	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 4.489	
2.1.3) ARC-210 - Organic	15 / 4.212	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 4.212	
<i>Subtotal: Recurring</i>	- / 11.681	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.681	
<i>Subtotal: 012-10 Critical Avionics</i>	148 / 28.007	7 / 0.034	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	155 / 28.041	
<i>Subtotal: Procurement, All Modification Items</i>	- / 28.007	- / 0.034	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.041	
<b>Support (All Modification Items)</b>													
3.1) DATA	- / 1.955	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.955	
3.2) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
3.3) TRAINING EQUIP	5 / 7.119	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 7.119	
3.4) SUPPORT EQUIP	- / 0.284	- / 0.015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.299	
3.5) ILS	- / 12.558	- / 0.392	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.950	
3.6) OTHER SUPPORT <sup>(1)</sup>	- / 21.936	- / 4.606	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 26.542	
3.7) Interim Contractor Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 33.852	- / 5.013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 38.865	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> 012-10 Critical Avionics	- / 3.878	- / 1.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.908	
<i>Subtotal: Installation</i>	- / 3.878	- / 1.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.908	
<b>Total</b>													

**UNCLASSIFIED**

**Exhibit P-3a, Individual Modification:** PB 2016 Navy **Date:** February 2015

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 2 / 012-10 Critical Avionics
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<b>Models of Systems Affected:</b> E-2C	<b>Modification Type:</b> Mission Performance Enhancements	<b>Related RDT&amp;E PEs:</b>
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<b>Financial Plan</b>	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
<b>Total Cost (Procurement + Support + Installation)</b>	65.737	6.077	-	-	-	-	-	-	-	-	-	71.814

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 2 / 012-10 Critical Avionics

**Modification Item 1 of 1:** 012-10 Critical Avionics

**Manufacturer Information**

Manufacturer Name: MATT Replacement	Manufacturer Location: Depot Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Manufacturer Name: HF Antenna	Manufacturer Location: Depot Field Mod Team
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013						
Delivery Dates	Jun 2014						

Manufacturer Name: HF Radio	Manufacturer Location: Depot Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

**Installation Information**

**Method of Implementation:** Depot Field Mod Team:: Installation Name: MATT REPLACEMENT

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	17 / 0.850	11 / 0.673	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.523
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	17 / 0.850	11 / 0.673	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.523

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 2 / 012-10 Critical Avionics

**Modification Item 1 of 1:** 012-10 Critical Avionics

**Installation Information**

**Method of Implementation:** Depot Field Mod Team:: Installation Name: MATT REPLACEMENT

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	17	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
Out	17	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28

**Method of Implementation:** Depot Field Mod Team:: Installation Name: HF ANTENNA

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	11 / 0.242	10 / 0.306	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.548
FY 2014	- / -	7 / 0.051	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.051
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 0.242	17 / 0.357	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.599

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	11	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
Out	11	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28

**Method of Implementation:** Depot Field Mod Team:: Installation Name: HF RADIO

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	28 / 2.786	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 2.786
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 2 / 012-10 Critical Avionics

**Modification Item 1 of 1:** 012-10 Critical Avionics

**Installation Information**

**Method of Implementation:** Depot Field Mod Team:: Installation Name: HF RADIO

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	28 / 2.786	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 2.786

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
Out	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28

**Method of Implementation (Organic):** Not Installed - MATT REPLACEMENT **Installation Quantity:** 28

**Method of Implementation (Organic):** Not Installed - HF RADIO **Installation Quantity:** 28

**Method of Implementation (Organic):** Not Installed - ARC-210 **Installation Quantity:** 15

**Footnotes:**

(1) The cost growth in support is due to Critical Avionics being used for the Universal Serial Bus (USB) Embedded National Tactical Receiver (ENTR). National Security Agency has declared the keys inactive and the IBS-Simplex (IBS-S) and IBS-Interactive (IBS-I), will become non-available and unsupported in 2015 on the current system. The new Common Interactive Broadcast (CIB) has been tested and is available in FY14. The Mission Computer Architecture was updated with a software update in FY14 to handle this new information that will require formal flight and ground testing.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy	<b>Date:</b> February 2015
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 3 / 005-11 Radar Improvement Program
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	10.231	3.050	2.800	0.464	-	0.464	-	-	-	-	-	16.545
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	10.231	3.050	2.800	0.464	-	0.464	-	-	-	-	-	16.545
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>10.231</b>	<b>3.050</b>	<b>2.800</b>	<b>0.464</b>	<b>-</b>	<b>0.464</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>16.545</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 Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This funding will integrate and field improvements to the E-2C radar components that are expected to be unsupportable in the near term and are of a high failure rate. Such improvements will keep portions of the APS-145 radar viable until 2021, the expected retirement date of the Hawkeye 2000. This funding also supports necessary modifications within the APS-145 Radar Test Bench System.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:**

Non-recurring Engineering was awarded on 16 June 2010. The Preliminary Design Review was completed 1ST QTR of FY11. The Critical Design Review was completed 3RD QTR of FY11. Flight Testing completed in FY-12.

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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>										<b>Date:</b> February 2015			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1					<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series					<b>Modification Number / Title:</b> 3 / 005-11 Radar Improvement Program			
<b>Models of Systems Affected:</b> E-2C				<b>Modification Type:</b> Mission Performance Enhancements				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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>													
<i>Modification Item 1 of 1:</i> 005-11 Radar Improvement Program													
B Kits													
Recurring													
2.1.1) WRA-9 - NonOrganic	20 / 1.735	12 / 0.983	11 / 0.973	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 3.691	
2.1.2) WRA-32 - NonOrganic	13 / 0.546	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.546	
<i>Subtotal: Recurring</i>	- / 2.281	- / 0.983	- / 0.973	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.237	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 0.586	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.586	
<i>Subtotal: Non-Recurring</i>	- / 0.586	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.586	
<i>Subtotal: 005-11 Radar Improvement Program</i>	33 / 2.867	12 / 0.983	11 / 0.973	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 4.823	
<i>Subtotal: Procurement, All Modification Items</i>	- / 2.867	- / 0.983	- / 0.973	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.823	
<b>Support (All Modification Items)</b>													
3.1) Data	- / -	- / -	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	
3.2) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
3.3) Training Equipment	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
3.4) New Cost Element	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
3.5) Support Equipment	15 / 3.235	- / 0.228	- / 0.142	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 3.605	
3.6) ILS	- / 2.296	- / 0.873	- / 1.154	- / 0.097	- / -	- / 0.097	- / -	- / -	- / -	- / -	- / -	- / 4.420	
3.7) Other Support	- / 1.620	- / 0.938	- / 0.452	- / 0.342	- / -	- / 0.342	- / -	- / -	- / -	- / -	- / -	- / 3.352	
3.8) Interim Contractor Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 7.151	- / 2.039	- / 1.798	- / 0.439	- / -	- / 0.439	- / -	- / -	- / -	- / -	- / -	- / 11.427	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> 005-11 Radar Improvement Program	- / 0.213	- / 0.028	- / 0.029	- / 0.025	- / -	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / 0.295	
<i>Subtotal: Installation</i>	- / 0.213	- / 0.028	- / 0.029	- / 0.025	- / -	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / 0.295	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>10.231</b>	<b>3.050</b>	<b>2.800</b>	<b>0.464</b>	<b>-</b>	<b>0.464</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>16.545</b>	

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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 3 / 005-11 Radar Improvement Program

**Modification Item 1 of 1:** 005-11 Radar Improvement Program

**Manufacturer Information**

Manufacturer Name: WRA-9	Manufacturer Location: Depot Field Modification Team
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 4

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Jun 2014	Jun 2015					
Delivery Dates	Oct 2014	Oct 2015					

**Installation Information**

**Method of Implementation:** Depot Field Modification Team:: Installation Name: WRA-9

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	10 / 0.122	10 / 0.028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.150
FY 2014	- / -	- / -	12 / 0.029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.029
FY 2015	- / -	- / -	- / -	11 / 0.025	- / -	11 / 0.025	- / -	- / -	- / -	- / -	- / -	11 / 0.025
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	10 / 0.122	10 / 0.028	12 / 0.029	11 / 0.025	- / -	11 / 0.025	- / -	- / -	- / -	- / -	- / -	43 / 0.204

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	10	5	5	-	-	6	6	-	-	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43
Out	10	5	5	-	-	6	6	-	-	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43

**Method of Implementation:** Depot Field Modification Team:: Installation Name: WRA-32

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	13 / 0.091	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.091
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -



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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 3 / 005-11 Radar Improvement Program

**Modification Item 1 of 1:** 005-11 Radar Improvement Program

**Installation Information**

**Method of Implementation:** Depot Field Modification Team:: Installation Name: WRA-32

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	13 / 0.091	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.091

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
Out	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy	<b>Date:</b> February 2015
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 4 / 008-14 Dual Transmit SATCOM
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	2.744	6.521	-	6.521	7.390	7.677	1.180	-	-	25.512
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	2.744	6.521	-	6.521	7.390	7.677	1.180	-	-	25.512
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>0.000</b>	-	<b>2.744</b>	<b>6.521</b>	-	<b>6.521</b>	<b>7.390</b>	<b>7.677</b>	<b>1.180</b>	-	-	<b>25.512</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 Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This funding will integrate and field the Dual Transmit Satellite Communication (SATCOM) capability into the E-2D by modifying aircraft cabling/components and the rotodome antenna. This integration will allow the aircrew to simultaneously receive/transmit on two SATCOM channels, allowing use of two discrete command nets for voice and data.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:**

Dual Transmit SATCOM system design and development began in FY09. Flight test began in FY13. Procurement of kits will begin in FY15. The procurement of 1 Dual SATCOM Kit in FY15 is required to support VX-1 Operational testing for DSSC 2 release in Feb 2016. This capability is critical to prevent severe communication gaps with the carrier strike group during missions in theatre.

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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>										<b>Date:</b> February 2015			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1					<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series					<b>Modification Number / Title:</b> 4 / 008-14 Dual Transmit SATCOM			
<b>Models of Systems Affected:</b> E-2D				<b>Modification Type:</b> Mission Performance Enhancements				<b>Related RDT&amp;E PEs:</b>					
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<b>Procurement</b>													
<i>Modification Item 1 of 1: 008-14 Dual Transmit SATCOM</i>													
A Kits													
Recurring													
1.1.1) E-2D Dual Transmit SATCOM - NonOrganic	- / -	- / -	1 / 1.189	5 / 5.930	- / -	5 / 5.930	5 / 6.031	5 / 6.145	- / -	- / -	- / -	16 / 19.295	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 1.189	- / 5.930	- / -	- / 5.930	- / 6.031	- / 6.145	- / -	- / -	- / -	- / 19.295	
<i>Subtotal: 008-14 Dual Transmit SATCOM</i>	- / -	- / -	1 / 1.189	5 / 5.930	- / -	5 / 5.930	5 / 6.031	5 / 6.145	- / -	- / -	- / -	16 / 19.295	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 1.189	- / 5.930	- / -	- / 5.930	- / 6.031	- / 6.145	- / -	- / -	- / -	- / 19.295	
<b>Support (All Modification Items)</b>													
3.1) ILS	- / -	- / -	- / 0.210	- / 0.228	- / -	- / 0.228	- / 0.226	- / 0.205	- / 0.178	- / -	- / -	- / 1.047	
3.2) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
3.3) Data	- / -	- / -	- / 0.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.225	
3.4) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.275	- / 0.445	- / 0.026	- / -	- / -	- / 0.746	
3.5) Support Equipment	- / -	- / -	- / 0.545	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.545	
3.6) Other Support	- / -	- / -	- / 0.575	- / 0.236	- / -	- / 0.236	- / 0.211	- / 0.223	- / 0.304	- / -	- / -	- / 1.549	
3.7) Interim Contractor Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / 1.555	- / 0.464	- / -	- / 0.464	- / 0.712	- / 0.873	- / 0.508	- / -	- / -	- / 4.112	
<b>Installation</b>													
<i>Modification Item 1 of 1: 008-14 Dual Transmit SATCOM</i>	- / 0.000	- / -	- / -	- / 0.127	- / -	- / 0.127	- / 0.647	- / 0.659	- / 0.672	- / -	- / -	- / 2.105	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 0.127	- / -	- / 0.127	- / 0.647	- / 0.659	- / 0.672	- / -	- / -	- / 2.105	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>-</b>	<b>2.744</b>	<b>6.521</b>	<b>-</b>	<b>6.521</b>	<b>7.390</b>	<b>7.677</b>	<b>1.180</b>	<b>-</b>	<b>-</b>	<b>25.512</b>	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 4 / 008-14 Dual Transmit SATCOM

**Modification Item 1 of 1:** 008-14 Dual Transmit SATCOM

**Manufacturer Information**

Manufacturer Name: Dual Transmit SATCOM	Manufacturer Location: Not Specified..
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 10

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	
Delivery Dates		Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	

**Installation Information**

**Method of Implementation:** Field Mod Teams:: Installation Name: E-2D Dual Transmit SATCOM

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	1 / 0.127	- / -	1 / 0.127	- / -	- / -	- / -	- / -	- / -	1 / 0.127
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.647	- / -	- / -	- / -	- / -	5 / 0.647
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.659	- / -	- / -	- / -	5 / 0.659
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.672	- / -	- / -	5 / 0.672
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 0.127	- / -	1 / 0.127	5 / 0.647	5 / 0.659	5 / 0.672	- / -	- / -	16 / 2.105

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	1	-	-	-	2	2	1	-	2	2	1	-	2	2	1	-	-	-	-	-	-	16
Out	-	-	-	-	-	-	-	-	-	1	-	-	-	2	2	1	-	2	2	1	-	2	2	1	-	-	-	-	-	-	16

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy	<b>Date:</b> February 2015
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 5 / 009-14 MODE 5/S
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	4.415	3.458	3.348	-	3.348	2.503	-	-	-	-	13.724
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	4.415	3.458	3.348	-	3.348	2.503	-	-	-	-	13.724
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>0.000</b>	<b>4.415</b>	<b>3.458</b>	<b>3.348</b>	<b>-</b>	<b>3.348</b>	<b>2.503</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13.724</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 Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This funding will field the Mode 5 interrogation capability into the E-2D. This effort will update the current APX-122 Identification of Friend or Foe (IFF) interrogator system with the Mode 5 software and hardware upgrade. The Mode 5 secure IFF system is used to identify friendly forces in a battlefield environment by maximizing Combat Identification and Situational Awareness among military platforms. The E-2D Mode 5 IFF system is being developed with modern modulation, coding, and cryptographic techniques that will provide positive, secure, line-of-sight identification of friendly military aircraft platforms.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:**

Mode 5 system design and development completed in 4th QTR FY-14. Flight test is due to complete 4th QTR FY-15. Procurement of kits began in FY14.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>										<b>Date:</b> February 2015		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1				<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series						<b>Modification Number / Title:</b> 5 / 009-14 MODE 5/S		
<b>Models of Systems Affected:</b> E-2D				<b>Modification Type:</b> Mission Performance Enhancements				<b>Related RDT&amp;E PEs:</b>				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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>												
<i>Modification Item 1 of 1: 009-14 MODE 5/S</i>												
B Kits												
Recurring												
2.1.1) E-2D Mode 5 - NonOrganic	- / -	5 / 1.443	5 / 1.469	6 / 1.791	- / -	6 / 1.791	- / -	- / -	- / -	- / -	- / -	16 / 4.703
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / 1.443</i>	<i>- / 1.469</i>	<i>- / 1.791</i>	<i>- / -</i>	<i>- / 1.791</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 4.703</i>
<i>Subtotal: 009-14 MODE 5/S</i>	<i>- / -</i>	<i>5 / 1.443</i>	<i>5 / 1.469</i>	<i>6 / 1.791</i>	<i>- / -</i>	<i>6 / 1.791</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>16 / 4.703</i>
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.000</i>	<i>- / 1.443</i>	<i>- / 1.469</i>	<i>- / 1.791</i>	<i>- / -</i>	<i>- / 1.791</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 4.703</i>
<b>Support (All Modification Items)</b>												
3.1) ILS	- / -	- / 0.044	- / 0.069	- / 0.055	- / -	- / 0.055	- / 0.112	- / -	- / -	- / -	- / -	- / 0.280
3.2) Data	- / -	- / -	- / 0.047	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.047
3.3) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
3.4) Training Equipment	- / -	3 / 2.249	- / 0.221	- / 0.025	- / -	- / 0.025	- / -	- / -	- / -	- / -	- / -	3 / 2.495
3.5) Support Equipment	- / -	15 / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.150
3.6) Other Support	- / -	- / 0.529	- / 1.467	- / 1.289	- / -	- / 1.289	- / 2.161	- / -	- / -	- / -	- / -	- / 5.446
3.7) Interim Contractor Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	<i>- / 0.000</i>	<i>- / 2.972</i>	<i>- / 1.804</i>	<i>- / 1.369</i>	<i>- / -</i>	<i>- / 1.369</i>	<i>- / 2.273</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 8.418</i>
<b>Installation</b>												
<i>Modification Item 1 of 1: 009-14 MODE 5/S</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.185</i>	<i>- / 0.188</i>	<i>- / -</i>	<i>- / 0.188</i>	<i>- / 0.230</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.603</i>
<i>Subtotal: Installation</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.185</i>	<i>- / 0.188</i>	<i>- / -</i>	<i>- / 0.188</i>	<i>- / 0.230</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.603</i>
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>4.415</b>	<b>3.458</b>	<b>3.348</b>	<b>-</b>	<b>3.348</b>	<b>2.503</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13.724</b>

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 5 / 009-14 MODE 5/S

**Modification Item 1 of 1:** 009-14 MODE 5/S

**Manufacturer Information**

Manufacturer Name: E-2D MODE 5	Manufacturer Location: Not Specified..
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Mar 2014	Mar 2015	Mar 2016				
Delivery Dates	Sep 2014	Sep 2015	Sep 2016				

**Installation Information**

**Method of Implementation:** FIELD MOD TEAM:: Installation Name: E-2D Mode 5

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	5 / 0.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.185
FY 2015	- / -	- / -	- / -	5 / 0.188	- / -	5 / 0.188	- / -	- / -	- / -	- / -	- / -	5 / 0.188
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.230	- / -	- / -	- / -	- / -	6 / 0.230
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	5 / 0.185	5 / 0.188	- / -	5 / 0.188	6 / 0.230	- / -	- / -	- / -	- / -	16 / 0.603

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	5	-	-	-	5	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	-	-	-	-	-	5	-	-	-	5	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy	<b>Date:</b> February 2015
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 6 / 011-14 E-2D Avionics
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	1.726	5.784	1.900	-	1.900	0.432	-	-	-	-	9.842
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	1.726	5.784	1.900	-	1.900	0.432	-	-	-	-	9.842
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>0.000</b>	<b>1.726</b>	<b>5.784</b>	<b>1.900</b>	<b>-</b>	<b>1.900</b>	<b>0.432</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9.842</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 Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This funding will integrate and field the Crypto modernization improvements of ARC-210 into the E-2D. Without the modernization of the crypto the E-2D loses the ability to do High Frequency secure voice, LINK-16 and Satellite Communications Intel Data which are required to execute the E-2D mission.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:**

ARC-210 software development completed in FY13. Flight test began in FY14. Procurement of kits began in FY14.



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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>										<b>Date:</b> February 2015			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1					<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series					<b>Modification Number / Title:</b> 6 / 011-14 E-2D Avionics			
<b>Models of Systems Affected:</b> E-2D				<b>Modification Type:</b> Mission Performance Enhancements				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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>													
<i>Modification Item 1 of 1: 011-14 E-2D Avionics</i>													
A Kits													
Recurring													
1.1.1) ARC-210 - NonOrganic	- / -	2 / 0.007	5 / 0.017	2 / 0.007	- / -	2 / 0.007	- / -	- / -	- / -	- / -	- / -	9 / 0.031	
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.007	- / 0.017	- / 0.007	- / -	- / 0.007	- / -	- / -	- / -	- / -	- / -	- / 0.031	
B Kits													
Recurring													
2.1.1) ARC-210 - Organic	- / -	2 / 1.159	5 / 2.953	2 / 1.204	- / -	2 / 1.204	- / -	- / -	- / -	- / -	- / -	9 / 5.316	
<i>Subtotal: Recurring</i>	- / 0.000	- / 1.159	- / 2.953	- / 1.204	- / -	- / 1.204	- / -	- / -	- / -	- / -	- / -	- / 5.316	
<i>Subtotal: 011-14 E-2D Avionics</i>	- / -	4 / 1.166	10 / 2.970	4 / 1.211	- / -	4 / 1.211	- / -	- / -	- / -	- / -	- / -	18 / 5.347	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 1.166	- / 2.970	- / 1.211	- / -	- / 1.211	- / -	- / -	- / -	- / -	- / -	- / 5.347	
<b>Support (All Modification Items)</b>													
3.1) Data	- / -	- / -	- / 0.125	- / 0.036	- / -	- / 0.036	- / -	- / -	- / -	- / -	- / -	- / 0.161	
3.2) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
3.3) ILS	- / -	- / 0.466	- / 0.464	- / 0.066	- / -	- / 0.066	- / 0.015	- / -	- / -	- / -	- / -	- / 1.011	
3.4) Training Equipment	- / -	- / -	1 / 1.776	- / 0.152	- / -	- / 0.152	- / 0.070	- / -	- / -	- / -	- / -	1 / 1.998	
3.5) Support Equipment	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
3.6) Other Support	- / -	- / 0.094	- / 0.369	- / 0.232	- / -	- / 0.232	- / 0.264	- / -	- / -	- / -	- / -	- / 0.959	
3.7) Interim Contractor Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 0.000	- / 0.560	- / 2.734	- / 0.486	- / -	- / 0.486	- / 0.349	- / -	- / -	- / -	- / -	- / 4.129	
<b>Installation</b>													
<i>Modification Item 1 of 1: 011-14 E-2D Avionics</i>	- / 0.000	- / -	- / 0.080	- / 0.203	- / -	- / 0.203	- / 0.083	- / -	- / -	- / -	- / -	- / 0.366	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 0.080	- / 0.203	- / -	- / 0.203	- / 0.083	- / -	- / -	- / -	- / -	- / 0.366	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>1.726</b>	<b>5.784</b>	<b>1.900</b>	<b>-</b>	<b>1.900</b>	<b>0.432</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9.842</b>	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 6 / 011-14 E-2D Avionics

**Modification Item 1 of 1:** 011-14 E-2D Avionics

**Manufacturer Information**

Manufacturer Name: ARC-210				Manufacturer Location: Not Specified..			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 8			
<b>Dates</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Contract Dates	Mar 2014	Mar 2015	Mar 2016				
Delivery Dates	Nov 2014	Nov 2015	Nov 2016				

**Installation Information**

**Method of Implementation:** Field Mod Team:: Installation Name: ARC-210

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	2 / 0.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.080
FY 2015	- / -	- / -	- / -	5 / 0.203	- / -	5 / 0.203	- / -	- / -	- / -	- / -	- / -	5 / 0.203
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.083	- / -	- / -	- / -	- / -	2 / 0.083
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	2 / 0.080	5 / 0.203	- / -	5 / 0.203	2 / 0.083	- / -	- / -	- / -	- / -	9 / 0.366

**Installation Schedule**

PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	1	1	-	-	2	2	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Out	-	-	-	-	1	1	-	-	2	2	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9

**Method of Implementation (Organic):** Not Installed - ARC-210 **Installation Quantity:** 9

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy							<b>Date:</b> February 2015					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1				<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series			<b>Modification Number / Title:</b> 7 / 005-15 E-2D Aircraft ACD's					

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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	-	0.790	1.540	-	1.540	-	-	-	-	-	2.330
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	0.790	1.540	-	1.540	-	-	-	-	-	2.330
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	-	<b>0.790</b>	<b>1.540</b>	-	<b>1.540</b>	-	-	-	-	-	<b>2.330</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 Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Retrofit Initial Operational Test and Evaluation (IOT&E) Airframe Change Directives (ACDs) and Engineering Change Proposals (ECPs) into E-2D Low Rate Production (LRIP) aircraft.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:**

E-2D Aircraft Block 1B and 1C ACD's development and designs completed in FY12. Approved Block 1B and 1C ACD's production cut-ins completed in FY13. Procurement of 1B and 1C kits will begin in FY15.

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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>										<b>Date:</b> February 2015			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1				<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series						<b>Modification Number / Title:</b> 7 / 005-15 E-2D Aircraft ACD's			
<b>Models of Systems Affected:</b> E-2D				<b>Modification Type:</b> Mission Performance Enhancements				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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>													
<i>Modification Item 1 of 1: 005-15 E-2D Aircraft ACD's</i>													
A Kits													
Recurring													
1.1.1) E-2D 1B ACD Kit - NonOrganic	- / -	- / -	8 / 0.222	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.222	
1.1.2) E-2D 1C ACD Kit - NonOrganic	- / -	- / -	10 / 0.412	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.412	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 0.634	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.634	
<i>Subtotal: 005-15 E-2D Aircraft ACD's</i>	- / -	- / -	18 / 0.634	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.634	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 0.634	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.634	
<b>Support (All Modification Items)</b>													
3.1) Support Equipment	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
3.2) ILS	- / -	- / -	- / 0.061	- / 0.054	- / -	- / 0.054	- / -	- / -	- / -	- / -	- / -	- / 0.115	
3.3) Other Support	- / -	- / -	- / 0.075	- / 0.078	- / -	- / 0.078	- / -	- / -	- / -	- / -	- / -	- / 0.153	
3.4) Data	- / -	- / -	- / 0.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.020	
3.5) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
3.6) Training Equipment	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / 0.156	- / 0.132	- / -	- / 0.132	- / -	- / -	- / -	- / -	- / -	- / 0.288	
<b>Installation</b>													
<i>Modification Item 1 of 1: 005-15 E-2D Aircraft ACD's</i>	- / 0.000	- / -	- / -	- / 1.408	- / -	- / 1.408	- / -	- / -	- / -	- / -	- / -	- / 1.408	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 1.408	- / -	- / 1.408	- / -	- / -	- / -	- / -	- / -	- / 1.408	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>-</b>	<b>0.790</b>	<b>1.540</b>	<b>-</b>	<b>1.540</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.330</b>	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 7 / 005-15 E-2D Aircraft ACD's

**Modification Item 1 of 1:** 005-15 E-2D Aircraft ACD's

**Manufacturer Information**

Manufacturer Name: E-2D Aircraft 1B ACD				Manufacturer Location: Not Specified..			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
<b>Dates</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Contract Dates		Mar 2015					
Delivery Dates		Sep 2015					

Manufacturer Name: E-2D Aircraft 1C ACD				Manufacturer Location: Not Specified..			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
<b>Dates</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Contract Dates		Mar 2015					
Delivery Dates		Sep 2015					

**Installation Information**

**Method of Implementation:** FIELD MOD TEAM:: Installation Name: E-2D 1B ACD Kit

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	8 / 0.748	- / -	8 / 0.748	- / -	- / -	- / -	- / -	- / -	8 / 0.748
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	8 / 0.748	- / -	8 / 0.748	- / -	- / -	- / -	- / -	- / -	8 / 0.748

**Installation Schedule**

PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Out	-	-	-	-	-	-	-	-	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8

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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 7 / 005-15 E-2D Aircraft ACD's

**Modification Item 1 of 1:** 005-15 E-2D Aircraft ACD's

**Installation Information**

**Method of Implementation:** FIELD MOD TEAM:: Installation Name: E-2D 1C ACD Kit

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	10 / 0.660	- / -	10 / 0.660	- / -	- / -	- / -	- / -	- / -	10 / 0.660
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	10 / 0.660	- / -	10 / 0.660	- / -	- / -	- / -	- / -	- / -	10 / 0.660

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	3	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	-	-	-	-	-	-	-	-	-	3	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy	<b>Date:</b> February 2015
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 10 / 008-17 E-2D IBS-USB-ENTR
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	2.910	7.198	1.088	-	-	11.196
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	2.910	7.198	1.088	-	-	11.196
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	-	-	-	-	-	<b>2.910</b>	<b>7.198</b>	<b>1.088</b>	-	-	<b>11.196</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 Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Integrating the Universal Serial Bus-Embedded National Tactical Receiver (USB-ENTR) provides the E-2D capability to receive Integrated Broadcast Service (IBS) intelligence data from national assets for real-time, emergent threat or Combat ID data, compressing tactical engagement timeline for both Naval Integrated Fire Control - Counter Air (NIFC-CA) kill chains. Due to obsolescence of E-2C legacy MATT receiver, it was not included in E-2D baseline configuration. This capability is an E-2D baseline Capability Design Document (CDD) threshold requirement and supports gap identified at Fleet Forces Command (FFC) wargaming workshop.

This effort is an FY17 New Start.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:**

E-2D IBS-USB-ENTR system development and design completed in FY13. Flight test began in FY14. Procurement of kits will begin in FY17.

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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>										<b>Date:</b> February 2015			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1					<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series					<b>Modification Number / Title:</b> 10 / 008-17 E-2D IBS-USB-ENTR			
<b>Models of Systems Affected:</b> E-2D				<b>Modification Type:</b> Missions Performance Enhancements				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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>													
<i>Modification Item 1 of 1: 008-17 E-2D IBS-USB-ENTR</i>													
A Kits													
Recurring													
1.1.1) E-2D USB-ENTR - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.379	10 / 0.276	- / -	- / -	- / -	24 / 0.655	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.379	- / 0.276	- / -	- / -	- / -	- / 0.655	
B Kits													
Recurring													
2.1.1) E-2D USB-ENTR - Organic	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.404	10 / 1.021	- / -	- / -	- / -	24 / 2.425	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.404	- / 1.021	- / -	- / -	- / -	- / 2.425	
<i>Subtotal: 008-17 E-2D IBS-USB-ENTR</i>	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.783	20 / 1.297	- / -	- / -	- / -	48 / 3.080	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.783	- / 1.297	- / -	- / -	- / -	- / 3.080	
<b>Support (All Modification Items)</b>													
3.1) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.149	- / 0.151	- / -	- / -	- / -	- / 0.300	
3.2) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.307	- / 4.739	- / 0.200	- / -	- / -	- / 5.246	
3.3) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.260	- / 0.249	- / 0.157	- / -	- / -	- / 0.666	
3.4) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.355	- / 0.362	- / 0.491	- / -	- / -	- / 1.208	
3.5) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.056	- / 0.071	- / -	- / -	- / -	- / 0.127	
3.6) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.127	- / 5.572	- / 0.848	- / -	- / -	- / 7.547	
<b>Installation</b>													
<i>Modification Item 1 of 1: 008-17 E-2D IBS-USB-ENTR</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.329	- / 0.240	- / -	- / -	- / 0.569	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.329	- / 0.240	- / -	- / -	- / 0.569	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.910</b>	<b>7.198</b>	<b>1.088</b>	<b>-</b>	<b>-</b>	<b>11.196</b>	



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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 10 / 008-17 E-2D IBS-USB-ENTR

**Modification Item 1 of 1:** 008-17 E-2D IBS-USB-ENTR

**Manufacturer Information**

Manufacturer Name: USB-ENTR	Manufacturer Location: FIELD MOD TEAM
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates				Mar 2017	Mar 2018		
Delivery Dates				Sep 2017	Sep 2018		

**Installation Information**

**Method of Implementation:** FIELD MOD TEAM:: Installation Name: E-2D USB-ENTR

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.329	- / -	- / -	- / -	14 / 0.329
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.240	- / -	- / -	10 / 0.240
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.329	10 / 0.240	- / -	- / -	24 / 0.569

**Installation Schedule**

PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	4	4	3	3	3	1	-	-	-	-	-	24
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	4	4	3	3	3	1	-	-	-	-	-	24

**Method of Implementation (Organic):** Not Installed - E-2D USB-ENTR

**Installation Quantity:** 24

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy	<b>Date:</b> February 2015
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 8 / 009-16 E-2D AIS
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	1.338	-	1.338	3.526	0.964	-	-	-	5.828
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	-	1.338	-	1.338	3.526	0.964	-	-	-	5.828
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>0.000</b>	-	-	<b>1.338</b>	-	<b>1.338</b>	<b>3.526</b>	<b>0.964</b>	-	-	-	<b>5.828</b>
<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>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Automatic Identification System (AIS) is a tracking system which provides identification, course, and speed of maritime surface vessels. E-2D is a critical component in developing and maintaining the common tactical picture for naval and joint forces. AIS will provide enhanced maritime target Combat ID capability in support of Battlefield Management, Command and Control (BMC2) and Surface Warfare (SUW) mission capability. E-2D AIS supports Combat Identification (CID) gap identified at Fleet Forces Command (FFC) war gaming workshop and is an E-2D Capability Development Document (CDD) requirement (JROC approved March 3, 2009). AIS is already incorporated in the E-2C.

This effort is an FY16 New Start.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:**

E-2D AIS system development and design completed in FY13. Flight test began in FY14. Procurement of kits will begin in FY16.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>										<b>Date:</b> February 2015			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1					<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series					<b>Modification Number / Title:</b> 8 / 009-16 E-2D AIS			
<b>Models of Systems Affected:</b> E-2D				<b>Modification Type:</b> Mission Performance Enhancements				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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>													
<i>Modification Item 1 of 1: 009-16 E-2D AIS</i>													
A Kits													
Recurring													
1.1.1) E-2D AIS - NonOrganic	- / -	- / -	- / -	14 / 0.165	- / -	14 / 0.165	10 / 0.120	- / -	- / -	- / -	- / -	24 / 0.285	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 0.165	- / -	- / 0.165	- / 0.120	- / -	- / -	- / -	- / -	- / 0.285	
B Kits													
Recurring													
2.1.1) E-2D AIS - Organic	- / -	- / -	- / -	14 / 0.345	- / -	14 / 0.345	10 / 0.251	- / -	- / -	- / -	- / -	24 / 0.596	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 0.345	- / -	- / 0.345	- / 0.251	- / -	- / -	- / -	- / -	- / 0.596	
<i>Subtotal: 009-16 E-2D AIS</i>	- / -	- / -	- / -	28 / 0.510	- / -	28 / 0.510	20 / 0.371	- / -	- / -	- / -	- / -	48 / 0.881	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / 0.510	- / -	- / 0.510	- / 0.371	- / -	- / -	- / -	- / -	- / 0.881	
<b>Support (All Modification Items)</b>													
3.1) Support Equipment	- / -	- / -	- / -	- / 0.030	- / -	- / 0.030	- / 0.030	- / -	- / -	- / -	- / -	- / 0.060	
3.2) Training Equipment	- / -	- / -	- / -	- / 0.337	- / -	- / 0.337	- / 2.236	- / 0.197	- / -	- / -	- / -	- / 2.770	
3.3) ILS	- / -	- / -	- / -	- / 0.139	- / -	- / 0.139	- / 0.140	- / 0.136	- / -	- / -	- / -	- / 0.415	
3.4) Other Support	- / -	- / -	- / -	- / 0.300	- / -	- / 0.300	- / 0.306	- / 0.317	- / -	- / -	- / -	- / 0.923	
3.5) Data	- / -	- / -	- / -	- / 0.022	- / -	- / 0.022	- / 0.011	- / -	- / -	- / -	- / -	- / 0.033	
3.6) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 0.828	- / -	- / 0.828	- / 2.723	- / 0.650	- / -	- / -	- / -	- / 4.201	
<b>Installation</b>													
<i>Modification Item 1 of 1: 009-16 E-2D AIS</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.432	- / 0.314	- / -	- / -	- / -	- / 0.746	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.432	- / 0.314	- / -	- / -	- / -	- / 0.746	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>1.338</b>	<b>-</b>	<b>1.338</b>	<b>3.526</b>	<b>0.964</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5.828</b>	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 8 / 009-16 E-2D AIS

**Modification Item 1 of 1:** 009-16 E-2D AIS

**Manufacturer Information**

Manufacturer Name: AIS				Manufacturer Location: FIELD MOD TEAM			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
<b>Dates</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Contract Dates			Mar 2016	Mar 2017			
Delivery Dates			Sep 2016	Sep 2017			

**Installation Information**

**Method of Implementation:** FIELD MOD TEAM:: Installation Name: E-2D AIS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.432	- / -	- / -	- / -	- / -	14 / 0.432
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.314	- / -	- / -	- / -	10 / 0.314
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.432	10 / 0.314	- / -	- / -	- / -	24 / 0.746

**Installation Schedule**

PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	2	3	3	3	1	-	-	-	-	-	-	-	-	-	24
Out	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	2	3	3	3	1	-	-	-	-	-	-	-	-	-	24

**Method of Implementation (Organic):** Not Installed - E-2D AIS

**Installation Quantity:** 24

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy							<b>Date:</b> February 2015					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1				<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series			<b>Modification Number / Title:</b> 9 / 001-17 LINK 16 (MIDS/JTIDS for E-2C)					

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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	-	-	-	-	-	4.776	2.841	0.863	-	-	8.480
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	4.776	2.841	0.863	-	-	8.480
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>0.000</b>	-	-	-	-	-	<b>4.776</b>	<b>2.841</b>	<b>0.863</b>	-	-	<b>8.480</b>
<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>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This funding will integrate and field the Link 16 capability into the E-2C with the Multifunctional Information Distribution System/Joint Tactical Radio System (MIDS/JTRS) terminal which will improve the performance against currently existing data links and contains the Link-16 crypto modernization upgrades. This funding also supports the software effort to integrate application standards into the mission computer and displays.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:**

JTIDS crypto modernization and frequency remapping E-2C system integration design began in FY14. Flight test begins in FY15. Procurement of kits will begin in FY17.

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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>										<b>Date:</b> February 2015			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1					<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series					<b>Modification Number / Title:</b> 9 / 001-17 LINK 16 (MIDS/JTIDS for E-2C)			
<b>Models of Systems Affected:</b> E-2C					<b>Modification Type:</b> Mission Performance Enhancements					<b>Related RDT&amp;E PEs:</b>			
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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>													
<i>Modification Item 1 of 1: 001-17 LINK 16 (MIDS/JTIDS for E-2C)</i>													
A Kits													
Recurring													
1.1.1) LINK 16 (MIDS/JTIDS for E-2C) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.053	9 / 0.048	- / -	- / -	- / -	19 / 0.101	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.053	- / 0.048	- / -	- / -	- / -	- / 0.101	
B Kits													
Recurring													
2.1.1) Installation Kits Recurring - Organic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.572	9 / 1.370	- / -	- / -	- / -	19 / 2.942	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.572	- / 1.370	- / -	- / -	- / -	- / 2.942	
<i>Subtotal: 001-17 LINK 16 (MIDS/JTIDS for E-2C)</i>	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.625	18 / 1.418	- / -	- / -	- / -	38 / 3.043	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.625	- / 1.418	- / -	- / -	- / -	- / 3.043	
<b>Support (All Modification Items)</b>													
3.1) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
3.2) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.192	- / 0.114	- / 0.047	- / -	- / -	- / 0.353	
3.3) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.227	- / 0.252	- / 0.256	- / -	- / -	2 / 2.735	
3.4) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.302	- / 0.480	- / -	- / -	- / -	- / 0.782	
3.5) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.430	- / 0.422	- / 0.418	- / -	- / -	- / 1.270	
3.6) Data	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.151	- / 1.268	- / 0.721	- / -	- / -	- / 5.140	
<b>Installation</b>													
<i>Modification Item 1 of 1: 001-17 LINK 16 (MIDS/JTIDS for E-2C)</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.155	- / 0.142	- / -	- / -	- / 0.297	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.155	- / 0.142	- / -	- / -	- / 0.297	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4.776</b>	<b>2.841</b>	<b>0.863</b>	<b>-</b>	<b>-</b>	<b>8.480</b>	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 9 / 001-17 LINK 16 (MIDS/JTIDS for E-2C)

**Modification Item 1 of 1:** 001-17 LINK 16 (MIDS/JTIDS for E-2C)

**Manufacturer Information**

Manufacturer Name: LINK-16				Manufacturer Location: FIELD MOD TEAM			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
<b>Dates</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Contract Dates				Mar 2017	Mar 2018		
Delivery Dates				Sep 2017	Sep 2018		

**Installation Information**

**Method of Implementation:** FIELD MOD TEAM:: Installation Name: LINK 16 (MIDS/JTIDS for E-2C)

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.155	- / -	- / -	- / -	10 / 0.155
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.142	- / -	- / -	9 / 0.142
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.155	9 / 0.142	- / -	- / -	19 / 0.297

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	1	3	3	3	-	-	-	-	-	-	-	19
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	1	3	3	3	-	-	-	-	-	-	-	19

**Method of Implementation (Organic):** Not Installed - Installation Kits Recurring

**Installation Quantity:** 19

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy	<b>Date:</b> February 2015
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 11 / 001-18 E-2D MIDS/JTRS TTNT
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	-	19.127	16.316	16.713	15.756	67.912
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	-	19.127	16.316	16.713	15.756	67.912
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>0.000</b>	-	-	-	-	-	-	<b>19.127</b>	<b>16.316</b>	<b>16.713</b>	<b>15.756</b>	<b>67.912</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 Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Funding will be used to integrate and field the Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) with the Tactical Targeting Network Technology (TTNT) wave form. This capability will integrate the current E-2D Link-16 data link architecture with a time-sensitive targeting technology as part of the Naval Integrated Fire Control-Counter Air concept for fleet air and missile defense.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:**

MIDS/JTRS TTNT system development and design began in FY14. Flight test occurs in FY16. Procurement of kits will begin in FY18.



**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>									<b>Date:</b> February 2015															
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1				<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series					<b>Modification Number / Title:</b> 11 / 001-18 E-2D MIDS/JTRS TTNT															
<b>Models of Systems Affected:</b> E-2D				<b>Modification Type:</b> Mission Performance Enhancements				<b>Related RDT&amp;E PEs:</b>																
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>												
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>												
<b>Procurement</b>																								
<i>Modification Item 1 of 1: 001-18 E-2D MIDS/JTRS TTNT</i>																								
A Kits																								
Recurring																								
1.1.1) E-2D MIDS/JTRS TTNT - NonOrganic																								
	-	/	-	-	/	-	-	/	-	12	/	0.550	12	/	0.561	12	/	0.571	7	/	0.340	43	/	2.022
<i>Subtotal: Recurring</i>																								
	-	/	0.000	-	/	-	-	/	-	-	/	0.550	-	/	0.561	-	/	0.571	-	/	0.340	-	/	2.022
B Kits																								
Recurring																								
2.1.1) Installation Kits Recurring - Organic																								
	-	/	-	-	/	-	-	/	-	24	/	10.173	24	/	10.367	24	/	10.563	14	/	6.279	86	/	37.382
<i>Subtotal: Recurring</i>																								
	-	/	0.000	-	/	-	-	/	-	-	/	10.173	-	/	10.367	-	/	10.563	-	/	6.279	-	/	37.382
<i>Subtotal: 001-18 E-2D MIDS/JTRS TTNT</i>																								
	-	/	-	-	/	-	-	/	-	36	/	10.723	36	/	10.928	36	/	11.134	21	/	6.619	129	/	39.404
<i>Subtotal: Procurement, All Modification Items</i>																								
	-	/	0.000	-	/	-	-	/	-	-	/	10.723	-	/	10.928	-	/	11.134	-	/	6.619	-	/	39.404
<b>Support (All Modification Items)</b>																								
3.1) Support Equipment																								
	-	/	-	-	/	-	-	/	-	-	/	1.007	-	/	1.024	-	/	1.209	-	/	1.426	-	/	4.666
3.2) Training Equipment																								
	-	/	-	-	/	-	-	/	-	-	/	4.455	-	/	0.143	-	/	0.145	-	/	-	-	/	4.743
3.3) ILS																								
	-	/	-	-	/	-	-	/	-	-	/	0.987	-	/	0.942	-	/	0.962	-	/	1.311	-	/	4.202
3.4) Other Support																								
	-	/	-	-	/	-	-	/	-	-	/	1.230	-	/	1.250	-	/	1.272	-	/	3.379	-	/	7.131
3.5) Data																								
	-	/	-	-	/	-	-	/	-	-	/	0.725	-	/	0.491	-	/	0.424	-	/	0.475	-	/	2.115
3.6) Engineering Change Orders																								
	-	/	0.000	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-
<i>Subtotal: Support</i>																								
	-	/	0.000	-	/	-	-	/	-	-	/	8.404	-	/	3.850	-	/	4.012	-	/	6.591	-	/	22.857
<b>Installation</b>																								
<i>Modification Item 1 of 1: 001-18 E-2D MIDS/JTRS TTNT</i>																								
	-	/	0.000	-	/	-	-	/	-	-	/	-	-	/	1.538	-	/	1.567	-	/	2.546	-	/	5.651
<i>Subtotal: Installation</i>																								
	-	/	0.000	-	/	-	-	/	-	-	/	-	-	/	1.538	-	/	1.567	-	/	2.546	-	/	5.651
<b>Total</b>																								
<b>Total Cost (Procurement + Support + Installation)</b>																								
	0.000	-	-	-	-	-	-	-	-	19.127	16.316	16.713	15.756	67.912										

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 11 / 001-18 E-2D MIDS/JTRS TTNT

**Modification Item 1 of 1:** 001-18 E-2D MIDS/JTRS TTNT

**Manufacturer Information**

Manufacturer Name: TTNT	Manufacturer Location: FIELD MOD TEAM
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates					Mar 2018	Mar 2019	Mar 2020
Delivery Dates					Sep 2018	Sep 2019	Mar 2020

**Installation Information**

**Method of Implementation:** FIELD MOD TEAM:: Installation Name: E-2D MIDS/JTRS TTNT

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.538	- / -	- / -	12 / 1.538
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.567	- / -	12 / 1.567
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.597	12 / 1.597
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.949	7 / 0.949
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.538	12 / 1.567	19 / 2.546	43 / 5.651

**Installation Schedule**

PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	19	43
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	19	43

**Method of Implementation (Organic):** Not Installed - Installation Kits Recurring **Installation Quantity:** 86

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy	<b>Date:</b> February 2015
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 12 / 002-18 E-2D Aerial Refueling
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	-	36.155	55.147	58.514	316.755	466.571
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	-	36.155	55.147	58.514	316.755	466.571
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	-	-	-	-	-	-	<b>36.155</b>	<b>55.147</b>	<b>58.514</b>	<b>316.755</b>	<b>466.571</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 Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

The E-2D Aerial Refueling (AR) OSIP (2-18), will allow the E-2 to receive fuel from various organic and non-organic tanker aircraft. It will provide Expanded Battle Space Surveillance and Targeting through significantly enhanced persistence and increased flexibility (range & endurance).

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:**

Aerial Refueling risk reduction began in FY12. Engineering & Manufacturing Development began in FY13. Preliminary Design Review was 4Q FY14 and Critical Design Review is 3Q FY15. Flight test occurs in FY17. Procurement of kits will begin in FY18.

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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>										<b>Date:</b> February 2015			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1					<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series					<b>Modification Number / Title:</b> 12 / 002-18 E-2D Aerial Refueling			
<b>Models of Systems Affected:</b> E-2D				<b>Modification Type:</b> Mission Performance Enhancements				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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>													
<i>Modification Item 1 of 1: 002-18 E-2D Aerial Refueling</i>													
A Kits													
Recurring													
1.1.1) E-2D Aerial Refueling - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 9.829	6 / 12.007	7 / 14.246	25 / 53.608	43 / 89.690	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.829	- / 12.007	- / 14.246	- / 53.608	- / 89.690	
<i>Subtotal: 002-18 E-2D Aerial Refueling</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 9.829	6 / 12.007	7 / 14.246	25 / 53.608	43 / 89.690	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.829	- / 12.007	- / 14.246	- / 53.608	- / 89.690	
<b>Support (All Modification Items)</b>													
3.1) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.698	- / 1.055	- / -	- / -	- / 2.753	
3.2) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 14.891	- / 2.822	- / 0.229	- / 0.233	5 / 18.175	
3.3) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.832	- / 1.785	- / 1.769	- / 11.583	- / 16.969	
3.4) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.636	- / 6.749	- / 6.207	- / 47.133	- / 66.725	
3.5) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.269	- / 1.179	- / -	- / -	- / 2.448	
3.6) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 26.326	- / 13.590	- / 8.205	- / 58.949	- / 107.070	
<b>Installation</b>													
<i>Modification Item 1 of 1: 002-18 E-2D Aerial Refueling</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.550	- / 36.063	- / 204.198	- / 269.811	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.550	- / 36.063	- / 204.198	- / 269.811	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>36.155</b>	<b>55.147</b>	<b>58.514</b>	<b>316.755</b>	<b>466.571</b>	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 12 / 002-18 E-2D Aerial Refueling

**Modification Item 1 of 1:** 002-18 E-2D Aerial Refueling

**Manufacturer Information**

Manufacturer Name: IFR	Manufacturer Location: FIELD MOD TEAM
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates					Mar 2018	Mar 2019	Mar 2020
Delivery Dates					Sep 2018	Sep 2019	Mar 2020

**Installation Information**

**Method of Implementation:** FIELD MOD TEAM:: Installation Name: E-2D Aerial Refueling

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 29.550	- / -	- / -	5 / 29.550
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 36.063	- / -	6 / 36.063
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 42.873	7 / 42.873
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 161.325	25 / 161.325
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 29.550	6 / 36.063	32 / 204.198	43 / 269.811

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	2	2	2	-	32	43
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	2	2	2	-	32	43

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**Exhibit P-3a, Individual Modification: PB 2016 Navy** **Date:** February 2015

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 13 / 003-18 E-2D SIPR CHAT
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	-	9.032	4.849	4.697	4.802	23.380
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	-	9.032	4.849	4.697	4.802	23.380
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>0.000</b>	-	-	-	-	-	-	<b>9.032</b>	<b>4.849</b>	<b>4.697</b>	<b>4.802</b>	<b>23.380</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 Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

The E-2D Secret Internet Protocol Router Chat (SIPR) OSIP (3-18), will support the integration of current collaboration tools including tactical "chat" (text) communications, real-time tasking, and Air Tasking Order distribution. Recent real world operations have demonstrated a migration of Command and Control communications from voice to Internet protocol based networks.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:**

SIPR Chat system development and design began in FY14. Flight Test occurs in FY17. Procurement of kits will begin in FY18.

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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>									<b>Date:</b> February 2015				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1				<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series					<b>Modification Number / Title:</b> 13 / 003-18 E-2D SIPR CHAT				
<b>Models of Systems Affected:</b> E-2D				<b>Modification Type:</b> Mission Performance Enhancements				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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>													
<i>Modification Item 1 of 1: 003-18 E-2D SIPR CHAT</i>													
A Kits													
Recurring													
1.1.1) E-2D SIPR CHAT - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.422	12 / 0.430	12 / 0.438	7 / 0.260	43 / 1.550	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.422	- / 0.430	- / 0.438	- / 0.260	- / 1.550	
B Kits													
Recurring													
2.1.1) Installation Kits Recurring - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.729	12 / 0.748	12 / 0.763	7 / 0.458	43 / 2.698	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.729	- / 0.748	- / 0.763	- / 0.458	- / 2.698	
<i>Subtotal: 003-18 E-2D SIPR CHAT</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.151	24 / 1.178	24 / 1.201	14 / 0.718	86 / 4.248	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.151	- / 1.178	- / 1.201	- / 0.718	- / 4.248	
<b>Support (All Modification Items)</b>													
3.1) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.930	- / 0.946	- / 1.117	- / -	- / 2.993	
3.2) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.601	- / 0.366	- / 0.373	- / -	- / 5.340	
3.3) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.362	- / 0.194	- / 0.188	- / 0.192	- / 0.936	
3.4) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.356	- / 1.383	- / 1.406	- / 3.294	- / 7.439	
3.5) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.632	- / 0.421	- / 0.043	- / -	- / 1.096	
3.6) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.881	- / 3.310	- / 3.127	- / 3.486	- / 17.804	
<b>Installation</b>													
<i>Modification Item 1 of 1: 003-18 E-2D SIPR CHAT</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.361	- / 0.369	- / 0.598	- / 1.328	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.361	- / 0.369	- / 0.598	- / 1.328	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9.032</b>	<b>4.849</b>	<b>4.697</b>	<b>4.802</b>	<b>23.380</b>	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy		<b>Date:</b> February 2015
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 13 / 003-18 E-2D SIPR CHAT

**Modification Item 1 of 1:** 003-18 E-2D SIPR CHAT

**Manufacturer Information**

Manufacturer Name: SIPRCHAT	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates					Mar 2018	Mar 2019	Mar 2020
Delivery Dates					Sep 2018	Sep 2019	Mar 2020

**Installation Information**

**Method of Implementation:** FIELD MOD TEAM:: Installation Name: E-2D SIPR CHAT

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.361	- / -	- / -	12 / 0.361
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.369	- / -	12 / 0.369
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.375	12 / 0.375
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.223	7 / 0.223
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.361	12 / 0.369	19 / 0.598	43 / 1.328

**Installation Schedule**

PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	19	43
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	19	43

**Method of Implementation (Organic):** Not Installed - Installation Kits Recurring **Installation Quantity:** 43



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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy	<b>Date:</b> February 2015
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 14 / Inactive OSIPs
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,220.414	-	-	-	-	-	-	-	-	-	-	1,220.414
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	1,220.414	-	-	-	-	-	-	-	-	-	-	1,220.414
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>1,220.414</b>	-	-	-	-	-	-	-	-	-	-	<b>1,220.414</b>
<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>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Inactive OSIPs prior year totals.

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<b>Exhibit P-3a, Individual Modification: PB 2016 Navy</b>										<b>Date:</b> February 2015			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1					<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series					<b>Modification Number / Title:</b> 14 / Inactive OSIPs			
<b>Models of Systems Affected:</b>				<b>Modification Type:</b>				<b>Related RDT&amp;E PEs:</b>					
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<b>Procurement</b>													
<i>Modification Item 1 of 1: Inactive OSIPs</i>													
<i>A Kits</i>													
<i>Recurring</i>													
<i>1.1.1) INACTIVE OSIPS - Organic</i>	<i>- / 1,220.414</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1,220.414</i>	
<i>Subtotal: Recurring</i>	<i>- / 1,220.414</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1,220.414</i>	
<i>Subtotal: Inactive OSIPs</i>	<i>- / 1,220.414</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1,220.414</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 1,220.414</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1,220.414</i>	
<b>Support (All Modification Items)</b>													
<i>3.1) New Cost Element.</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
<i>Subtotal: Support</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
<b>Installation</b>													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>1,220.414</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,220.414</b>	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Navy	<b>Date:</b> February 2015
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0544 / E-2 Series	<b>Modification Number / Title:</b> 14 / Inactive OSIPs
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**Modification Item 1 of 1:** Inactive OSIPs

**Manufacturer Information**

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months):	Production Leadtime (in Months):
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Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

**Installation Information**

<b>Method of Implementation (Organic):</b> No Quantities Associated with Install	<b>Installation Quantity:</b> 0
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