

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey
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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> 212	<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
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	780.319	129.148	129.155	121.208	4.900	126.108	142.129	156.188	170.539	135.419	728.470	2,497.475
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	780.319	129.148	129.155	121.208	4.900	126.108	142.129	156.188	170.539	135.419	728.470	2,497.475
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>780.319</b>	<b>129.148</b>	<b>129.155</b>	<b>121.208</b>	<b>4.900</b>	<b>126.108</b>	<b>142.129</b>	<b>156.188</b>	<b>170.539</b>	<b>135.419</b>	<b>728.470</b>	<b>2,497.475</b>

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

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

**Description:**

This line item funds modifications to the Navy's V-22 aircraft. The V-22 is a tilt rotor, Vertical/Short Takeoff and Landing (V/STOL) aircraft for Joint Service application. The Navy acts as the lead service with support from the United States Air Force (USAF) co-located in the V-22 Program Office. The V-22 Program is designed to provide an aircraft to meet the amphibious/vertical assault needs of the United States Marine Corps, the strike rescue needs of the Navy, and the special operations needs of the USAF and United States Special Operations Command (USSOCOM). The MV-22 variant is replacing the CH-46E in the Marine Corps and will supplement the H-60 in the Navy. The CV-22 variant replaced the MH-53J, and will provide a new capability and augment the MC-130 in the USAF/USSOCOM inventory for special operations infiltration, exfiltration, and resupply missions. The V-22 is capable of flying over 2,100 nautical miles with a single refueling, giving the Services the advantage of a V/STOL aircraft able to rapidly self-deploy to any location in the world. This line item funds modifications in support of the 226 MV-22's in service by end of Fiscal Year(FY) 2014 and will support an additional 38 aircraft, for a total of 264 to be delivered through FY 2016.

The overall goal of the modifications budgeted in FY 2016 is to maintain commonality, implement structural safety and reliability improvements, and improve capability. These modifications will also improve readiness, increase aircraft availability, and decrease operating costs. FY 2016 focus will be on reducing flight hour costs, and improving Time On Wing, as reflected in the Readiness Operational Safety Improvement Program (OSIP).

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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> 212	<b>Item MDAP/MAIS Code(s):</b>
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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 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01) (Safety, Reliability, Increased Service Life, Improved Mission Capability)	P-3a		- / 721.940	- / 105.063	- / 82.173	- / 71.151	- / -	- / 71.151
2 / MV-22 Readiness (OSIP 028-12) (Reliability, Cost-per-flight hour, Reduction in Total Ownership cost)	P-3a		- / 58.379	- / 24.085	- / 46.982	- / 50.057	- / 4.900	- / 54.957
<b>Total Gross/Weapon System Cost</b>			<b>- / 780.319</b>	<b>- / 129.148</b>	<b>- / 129.155</b>	<b>- / 121.208</b>	<b>- / 4.900</b>	<b>- / 126.108</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 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01) (Safety, Reliability, Increased Service Life, Improved Mission Capability)	P-3a		- / 74.127	- / 77.395	- / 94.346	- / 70.715	- / 312.926	- / 1,609.836
2 / MV-22 Readiness (OSIP 028-12) (Reliability, Cost-per-flight hour, Reduction in Total Ownership cost)	P-3a		- / 68.002	- / 78.793	- / 76.193	- / 64.704	- / 415.544	- / 887.639
<b>Total Gross/Weapon System Cost</b>			<b>- / 142.129</b>	<b>- / 156.188</b>	<b>- / 170.539</b>	<b>- / 135.419</b>	<b>- / 728.470</b>	<b>- / 2,497.475</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.  
 Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**  
 MV-22 Correction of Deficiencies, OSIP 22-01, provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field retrofit. In order to meet emerging deficiencies the airframe and integrated systems must be modified as critical corrections/ changes are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve MV-22 system operations. ECPs are implemented to coincide with resources and aircraft availability. These changes provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the MV-22 platform. This modification program may be required to provide timely remedial action for any aircraft system, component or structure.

ECPs addressing readiness degraders impacting MV-22 reliability, maintainability, availability, and cost per flight hour are captured under OSIP 28-12. This Operational Safety Improvement Program is established for the correction of readiness degraders impacting MV-22 cost per flight hour, Reliability Maintainability and Availability (RM&A), obsolescence, and reduction of life-cycle costs. These modifications (MODs) will be accomplished by field retrofit and implemented to coincide with resources and aircraft availability. In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the V-22 Aircraft platform.

OCO:  
 MV-22 Aft Sponson Fuel Tank. This improvement will increase combat range and endurance of the MV-22 and enable accomplishment of the Rapid Ground Refueling (RGR) mission with a single aircraft, greatly enhancing support to the Marine Air Ground Task Force during expeditionary operations.

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey						<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)			

<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> )	721.940	105.063	82.173	71.151	-	71.151	74.127	77.395	94.346	70.715	312.926	1,609.836
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	721.940	105.063	82.173	71.151	-	71.151	74.127	77.395	94.346	70.715	312.926	1,609.836
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>721.940</b>	<b>105.063</b>	<b>82.173</b>	<b>71.151</b>	<b>-</b>	<b>71.151</b>	<b>74.127</b>	<b>77.395</b>	<b>94.346</b>	<b>70.715</b>	<b>312.926</b>	<b>1,609.836</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:**

MV-22 Correction of Deficiencies provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field retrofit. In order to meet emerging deficiencies the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve MV-22 system operations. ECPs are implemented to coincide with resources and aircraft availability. These changes provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the MV-22 platform. This modification program may be required to provide timely remedial action for any aircraft system, component or structure.

Current/Active ECPs:

**AVIONICS:** Avionics modifications to the V-22 will improve display reliability, eliminate communication security issues and alleviate parts obsolescence/vendor problems. Changes to the V-22 avionics will include: Display System upgrade, Cockpit Inter Communication System modification, upgraded Mission Computer, updated Data Transfer Module, Control Display Unit/Engine Instrument Caution Advisory System upgrade, Control Display Unit Keyboard upgrade, and Avionics Interface Units upgrades. As well as Mission System Upgrade and Midwing Processing Unit obsolescence replacement. Software modifications are controlled by the functional requirements document (FRD) and introduced to the fleet for release every two years, or as needed based on emerging fleet requirements. Modifications to the various avionics software configuration items (CIs) being incorporated into the fleet aircraft also require updates to the Collaborative Automated Maintenance Environment Optimized (CAMEO), Integrated Electronic Technical Manuals (IETMs); and mission planning. Specifically for the mission planning system, the V-22 Unique Planning Component (UPC) for the Joint Mission Planning System (JMPS) must implement frequent software updates in conjunction with production aircraft performance and software changes. Changes to the JMPS UPC in accordance with the FRD must include mission planning specific software regression tests to ensure proper operation and integration with other aircraft UPCs within JMPS.

**POWER TRANSMISSION AND CONTROL:** Changes to the V-22 Power Transmission and Control System will improve reliability and maintainability. Changes to the V-22 Power Transmission and Control System will include: swashplate reliability upgrades, engine gimbal ring/spherical bearing installation revision, updated refuel/defuel valve, bull gear shroud and engine gimbal ring.

**COCKPIT:** Changes to the V-22 cockpit will improve crew safety, mission suitability and overall reliability. Changes to the V-22 cockpit include: night vision goggle compatible hardware, upgraded inertial reels, upgraded pilot and co-pilot restraint system, throttle control lever soft stop modification, and improved rain removal.

**STRUCTURAL:** Structural changes to the V-22 will increase survivability, improve maintainability and aircraft availability, eliminate component interferences, improve suitability and correct safety related issues. Structural changes include: forward sponson fuel bladder access redesign/install powder panels, environmental control unit Ram air barrier filter, avionics left hand mounting tray, aft upper door strut, add manual drive decal, fold blades in high winds and modified trunnion fitting.

**RELIABILITY & MAINTAINABILITY FIXES:** Includes Corrective Action Plans to make the aircraft compliant with Operation Requirements Document requirements.

**ECP-708 Block A to Block B Upgrades:** Upgrade Block A aircraft to Block B due to configuration changes required to meet mission requirements. Changes are associated with the aircraft Propulsion/Drive, Electrical, Avionics, Hydraulics, and Structure/Airframe.

**ECP-716: Infra-Red Suppressor Redesign,** Provide a more reliable configuration to items that have contributed to poor system reliability and identify a repair kit for the aircraft Infra-Red Suppressor system.

**ECP-721: Ramp Mounted Weapon System (RMWS),** Provide an all quadrant Defensive Weapon System for the V-22.

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)
<p>ECP-860: K-Voice and Data Recorder (KVADR) replaces the Government Furnished Equipment Flight Incident Recorder due to obsolescence issues and diminishing manufacturing sources for parts.</p> <p>ECP-865 Rapid Ground Refueling provides two new utility outlets, to be used to power the pump package.</p> <p>ECP-869: Nose Landing Gear Improvements in 3 major areas of the nose landing gear mechanisms are proposed, these include: Increase Mechanism Spring Moments, Reducing Torque Tube Pivot Friction and Revising the Mechanism Stops to improve reliability and rigging.</p> <p>Cargo Winch System Redesign- Corrects deficiencies of current winch system and improves reliability and maintainability of cargo winch.</p> <p>Slim Multifunction Display (MFD): or flight displays in cockpit, thirty lb. weight savings, less cooling and power requirements, significant obsolescence avoided, greater pilot display capabilities.</p> <p>ECP-888: Inlet Guide Vane &amp; Upstream (IGV) Regulation provides for proper engine air and Hydraulic System 3 flow to operate the EAPS Scavenge Blowers. This will eliminate blower overspeeds and hydraulic system pressure spikes that have led to hydraulic system fires. It will also provide greater EAPS system availability and scavenge flow resulting in improved engine time-on-wing and blower reliability.</p> <p>Blue Force Tracker (BFT) II Block C Retrofit Kits and Block C MTX kits: Provides capability to communicate via established BFT network; providing aircraft current position and status to network subscribers (Joint Force Members) and to view other subscribers position and current status on graphic display. Incorporation will reduce fratricide risk and improve operational coordination.</p> <p>ECP-844: Interim Defense Weapon System (IDWS): : Capability improvements to IDWS. Employment of IDWS has resulted in identification of necessary modifications to improve effectiveness, lethality, and interoperability of the system. This modification provides necessary capability improvements identified during operational use and interim contract support.</p> <p>ECP-TBD: V-22 Integrated Aircraft Survivability Equipment (IASE) will correct deficiencies of the current RADAR warning system, replace the existing Missile Warning System, implement an active Infra-red countermeasure system, upgrade current countermeasures dispenser and provide integrated threat information on current aircraft main flight displays.</p> <p>Day Heads Up Display - improves ability to land safely in environments where visibility is reduced.</p> <p>Cabin Situational Awareness Device (CSAD)- improve situational awareness and enable the capability to send an analog video signal from the CSAD to Blue Force Tracker.</p> <p>Main Landing Gear Fire Suppression - increase the survivability by reducing the landing gear bay vulnerability by making that area more tolerant of battle damage, specifically fires.</p> <p>Data Transfer Unit: Replaces obsolete unit.</p> <p>Data Transfer System (DTS): Replacement for the current data transfer unit (ASQ-215) system which is obsolete. The DTS is being developed to facilitate legacy as well as future aircraft data processing and transfer.</p> <p>Enhanced Crash Survivable Memory Unit (Cockpit Voice Recorder): To protect aircraft flight information and facilitate post-mishap investigations, a crash-survivable recorder capable of recording a/c parametric data and aircrew voice communications.</p> <p>FLIR ELAP: Upgrade to the Forward Looking Infrared (FLIR) System Electronics Unit (SEU) with an Enhanced Local Area Processing (ELAP) card to improve visibility for the pilot</p> <p>FLIR SEU: Procurement of System Electronics Units (SEU's) for MV-22 aircraft being modified from Block A to Block B configuration. The SEU provides digital signal processing of the image obtained via the FLIR optics in the current FLIR unit, and passes the image data to the MV-22 mission computer.</p> <p>TCAS: Procurement of kits and installations of the Honeywell MILACAS-XR Traffic Collision Avoidance System (TCAS) into MCOI-equipped MV-22 Block B and C aircraft. MILACAS-XR is identical to the TCAS system already in use aboard the CV-22, and will advise MV-22 pilots of other air traffic in proximity to the MV-22, as well as resolution advisories of what course to fly to avoid colliding with the threat aircraft.</p> <p>Gen 5 ARC-210 radio: provides LOS single-channel voice communication in the 30-88 MHz FM, 118-174 MHz AM/FM, and 225-400 MHz AM/FM bands, as well as LOS Single Channel Ground and Airborne System (SINCGARS) and Havequick voice communications and provides the aircrew secure military Ultra High Frequency (UHF) Satellite Communications (SATCOM). Each radio has a notch filter which filters out the commercial 88-108 FM band from interfering with radio communication.</p> <p>ECP-Software Mods: Software modifications needed to incorporate ECP changes in order to correct deficiencies.</p> <p>ECP-559: AIRCRAFT MAINTENANCE TRAINER (AMT): AMT #2, Improves training and pilot proficiency by incorporating modifications to the AMT #2 to reflect most current Block A and Block B aircraft configuration.</p> <p>ECP-803: AMT #3, Improves training and pilot proficiency by incorporating modifications to the AMT #3 to reflect most current Block A and Block B aircraft configuration.</p> <p>ECP-Training Equipment: FLIGHT TRAINING DEVICE (FTD) UPGRADES: Improves training and pilot proficiency by incorporating modifications to the FTD #1 to reflect most current aircraft configuration as directed by Blue Ribbon Panel.</p> <p>ECP-Training Equipment: AIRFRAME PART TASK TRAINER, Incorporate Block 'B' configuration changes.</p> <p>ECP-Training Equipment: Aircraft Maintenance Trainer (AMT) #4, Improves training and pilot proficiency by incorporating modifications to the AMT #4 to reflect most current Block aircraft configuration.</p> <p>ECP-Training Equipment: Full Fidelity Simulator (FFS) UPGRADES: Improves training and pilot proficiency by incorporating modifications to the FFS #1-4 to reflect most current aircraft configuration as directed by Blue Ribbon Panel.</p> <p>ECP-Training Equipment: Flight Training Devices (FTD) UPGRADES: Improves training and pilot proficiency by incorporating modifications to the FTD #1-14 to reflect most current aircraft configuration as directed by Blue Ribbon Panel.</p>		

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FUTURE ECPs:  
 BLOCK B, and BLOCK C: Major configuration changes are associated with the aircraft Propulsion/Drive, Electrical, Avionics, Hydraulics, Structure/Airframe, Fuel, Software, and Environmental Control System. Specifically included are Nacelle changes, Avionics, Blade Fold Harness, Fuel Probe, Active Vibration Suppression System, Constant Frequency Generator and Variable Frequency Generator. Additional configuration changes include Effectiveness and Suitability and Enhanced Capability. ECPs for Reliability & Maintainability changes, Ice Protection and Clam Shell Doors) are configuration items associated with production Block B and Block C changes. Aircraft Retrofits are implemented to coincide with resources and aircraft availability , stand-alone retrofit ECPs are generated. These Retrofit ECPs are the implementation of the approved production Block Configuration changes.  
 Software Reprogrammable Payload (SRP) - A single common payload module that is open architecture government owned, flexible, and reconfigurable to support simultaneous missions and applications making maximum use of available bandwidth and ensuring interoperability. Provides a bridge and translator to allow various systems/waveforms to collaborate and provides the V-22 operator and passenger with a common operating picture.  
 Digital Interoperability provides situational awareness, enhanced command and control, remote and operation of payloads, and tracking of Marines and cargo. It also allows for collaboration and cooperation in a Joint environment.  
 Enhanced Standby Flight Instrument: A digital indicator which replaces the legacy analog standby instrument cluster for aircraft reference (attitude, altitude, etc.).  
 FY16 New Starts include: Data Transfer Unit and TCAS (FY15 funding for TCAS NRE).

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<b>Models of Systems Affected:</b> V-22 Series	<b>Modification Type:</b> Safety, Reliability, Increased Service Life, Improved Mission Capability	<b>Related RDT&amp;E PEs:</b> 0604262N
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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)

**Procurement**

<b>Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)</b>												
A Kits												
Recurring												
1.1.1) BFT II Block C - Organic	11 / 0.900	13 / 1.041	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.941
1.1.2) BFT II Block C MTX Kits - Organic	- / -	- / -	48 / 0.443	18 / 0.169	- / -	18 / 0.169	- / -	- / -	- / -	- / -	- / -	66 / 0.612
1.1.3) Block A to B - NonOrganic	19 / 85.600	2 / 10.500	4 / 21.399	2 / 10.903	- / -	2 / 10.903	- / -	- / -	- / -	- / -	- / -	27 / 128.402
1.1.4) Block A to B GFE - Organic	17 / 2.942	4 / 1.164	4 / 1.186	2 / 0.604	- / -	2 / 0.604	- / -	- / -	- / -	- / -	- / -	27 / 5.896
1.1.5) Cabin Situational Awareness Device - Organic	- / -	10 / 1.048	8 / 0.854	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 1.902
1.1.6) Cargo Winch System Redesign - NonOrganic	14 / 1.202	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.202
1.1.7) Data Transfer System - Organic	- / -	30 / 2.057	8 / 0.558	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 2.615
1.1.8) Data Transfer Unit - Organic	- / -	- / -	- / -	47 / 1.955	- / -	47 / 1.955	60 / 2.543	60 / 2.591	51 / 2.244	51 / 2.287	37 / 1.691	306 / 13.311
1.1.9) Digital Interoperability - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.480	28 / 0.571	30 / 0.624	33 / 0.700	235 / 5.076	350 / 7.451
1.1.10) Digital Interoperability - GFE - Organic	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.560	28 / 5.421	30 / 5.924	33 / 6.640	235 / 48.185	350 / 70.730
1.1.11) Enhanced Crash Survivable Memory Unit (Cockpit Voice Recorder) - NonOrganic	48 / 1.056	48 / 1.056	32 / 0.717	48 / 1.096	- / -	48 / 1.096	48 / 1.117	13 / 0.308	10 / 0.242	- / -	- / -	247 / 5.592
1.1.12) Enhanced Standby Flight Instrument - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.960	33 / 2.353	33 / 2.398	43 / 3.185	137 / 9.896
1.1.13) FLIR ELAP - NonOrganic	- / -	- / -	20 / 0.400	50 / 1.019	- / -	50 / 1.019	55 / 1.143	- / -	- / -	- / -	- / -	125 / 2.562
1.1.14) FLIR SEU - Organic	- / -	- / -	11 / 3.960	4 / 1.467	- / -	4 / 1.467	- / -	- / -	- / -	- / -	- / -	15 / 5.427
1.1.15) Gen 5 Radio ARC 210 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.064	60 / 0.391	- / -	- / -	- / -	70 / 0.455
1.1.16) IGV & Hyd Flow Reg - NonOrganic	186 / 2.006	3 / 0.036	42 / 0.129	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	231 / 2.171
1.1.17) IR Suppressor - NonOrganic <sup>(1)</sup>	68 / 5.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	68 / 5.100
1.1.18) KVADR GFE - Organic	106 / 2.020	39 / 0.663	39 / 0.676	40 / 0.706	- / -	40 / 0.706	- / -	- / -	- / -	- / -	- / -	224 / 4.065
1.1.19) Main Landing Fire Suppression - NonOrganic	204 / 5.946	14 / 0.320	32 / 0.752	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	250 / 7.018
1.1.20) Nose Landing Gear - NonOrganic	190 / 0.965	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	190 / 0.965
1.1.21) Ramp Mounted Weapon System - Organic	112 / 1.978	100 / 2.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	212 / 4.178
1.1.22) Rapid Ground Refueling - NonOrganic	148 / 0.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	148 / 0.192
1.1.23) Slim MFD - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	20 / 4.580	20 / 4.667	20 / 4.755	20 / 4.846	6 / 1.481	86 / 20.329
1.1.24) Software Reprogrammable Payload - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	22 / 4.000	21 / 3.895	22 / 4.162	22 / 4.245	105 / 20.240	192 / 36.542
1.1.25) Traffic Collision Avoidance System (TCAS) - NonOrganic	- / -	- / -	- / -	24 / 5.592	- / -	24 / 5.592	25 / 5.936	20 / 4.838	48 / 11.834	48 / 12.058	54 / 13.823	219 / 54.081

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey							<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)			
<b>Models of Systems Affected:</b> V-22 Series				<b>Modification Type:</b> Safety, Reliability, Increased Service Life, Improved Mission Capability					<b>Related RDT&amp;E PEs:</b> 0604262N					
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)		
1.1.26) V-22 Integrated Aircraft Survivability Equipment - NonOrganic	- / -	- / -	24 / 8.990	24 / 9.161	- / -	24 / 9.161	24 / 9.336	24 / 9.511	24 / 9.694	24 / 9.876	76 / 31.872	220 / 88.440		
1.1.27) Archived ECPs - Organic	2,979 / 307.762	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,979 / 307.762		
1.1.28) PY Installs - Organic	- / 1.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.225		
<b>Subtotal: Recurring</b>	<b>- / 418.894</b>	<b>- / 20.085</b>	<b>- / 40.064</b>	<b>- / 32.672</b>	<b>- / -</b>	<b>- / 32.672</b>	<b>- / 33.759</b>	<b>- / 34.153</b>	<b>- / 41.832</b>	<b>- / 43.050</b>	<b>- / 125.553</b>	<b>- / 790.062</b>		
<b>Non-Recurring</b>														
1.2.1) Installation Kits N/R - Organic	- / 81.153	- / 25.855	- / 9.137	- / 7.893	- / -	- / 7.893	- / 3.982	- / 2.000	- / 2.000	- / -	- / -	- / 132.020		
<b>Subtotal: Non-Recurring</b>	<b>- / 81.153</b>	<b>- / 25.855</b>	<b>- / 9.137</b>	<b>- / 7.893</b>	<b>- / -</b>	<b>- / 7.893</b>	<b>- / 3.982</b>	<b>- / 2.000</b>	<b>- / 2.000</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 132.020</b>		
<b>B Kits</b>														
<b>Recurring</b>														
2.1.1) Slim MFD - Organic	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.400	20 / 0.408	20 / 0.415	20 / 0.423	6 / 0.129	86 / 1.775		
2.1.2) Enhanced Standby Flight Instrument - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.120	33 / 1.345	33 / 1.370	43 / 1.820	137 / 5.655		
2.1.3) Archived B Kits - Organic	72 / 3.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 3.800		
<b>Subtotal: Recurring</b>	<b>- / 3.800</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 0.400</b>	<b>- / 1.528</b>	<b>- / 1.760</b>	<b>- / 1.793</b>	<b>- / 1.949</b>	<b>- / 11.230</b>		
<b>Non-Recurring</b>														
2.2.1) Installation Equipment N/R - Organic	- / 0.577	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.577		
<b>Subtotal: Non-Recurring</b>	<b>- / 0.577</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 0.577</b>		
<b>Subtotal: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)</b>	<b>4,174 / 504.424</b>	<b>263 / 45.940</b>	<b>272 / 49.201</b>	<b>259 / 40.565</b>	<b>- / -</b>	<b>259 / 40.565</b>	<b>332 / 38.141</b>	<b>350 / 37.681</b>	<b>321 / 45.592</b>	<b>317 / 44.843</b>	<b>840 / 127.502</b>	<b>7,128 / 933.889</b>		
<b>Subtotal: Procurement, All Modification Items</b>	<b>- / 504.424</b>	<b>- / 45.940</b>	<b>- / 49.201</b>	<b>- / 40.565</b>	<b>- / -</b>	<b>- / 40.565</b>	<b>- / 38.141</b>	<b>- / 37.681</b>	<b>- / 45.592</b>	<b>- / 44.843</b>	<b>- / 127.502</b>	<b>- / 933.889</b>		
<b>Support (All Modification Items)</b>														
3.1) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
3.2) Software Modifications <sup>(2)</sup>	- / -	- / -	- / 0.500	- / 0.500	- / -	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / 5.500		
3.3) Data	- / 1.384	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.384		
3.4) Training Equipment <sup>(3)</sup>	7 / 150.259	- / 33.864	- / 7.056	- / 2.935	- / -	- / 2.935	- / 6.675	- / 15.483	- / 24.516	- / -	- / 70.548	7 / 311.336		
3.5) Support Equipment	- / 2.128	- / -	- / 1.896	- / 0.320	- / -	- / 0.320	- / 0.595	- / 0.637	- / -	- / -	- / -	- / 5.576		
3.6) ILS	- / 6.649	- / -	- / 0.500	- / 0.509	- / -	- / 0.509	- / 0.520	- / 0.530	- / 0.540	- / 0.550	- / 2.695	- / 12.493		
3.7) Other Support	- / 19.698	- / 10.070	- / 10.261	- / 10.456	- / -	- / 10.456	- / 10.655	- / 10.857	- / 11.064	- / 11.274	- / 50.800	- / 145.135		
3.8) Interim Contractor Support <sup>(4)</sup>	- / -	- / 2.825	- / 5.086	- / 0.428	- / -	- / 0.428	- / 0.481	- / 0.471	- / 0.480	- / 0.080	- / -	- / 9.851		
<b>Subtotal: Support</b>	<b>- / 180.118</b>	<b>- / 46.759</b>	<b>- / 25.299</b>	<b>- / 15.148</b>	<b>- / -</b>	<b>- / 15.148</b>	<b>- / 19.426</b>	<b>- / 28.478</b>	<b>- / 37.100</b>	<b>- / 12.404</b>	<b>- / 126.543</b>	<b>- / 491.275</b>		
<b>Installation</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> 0590 / V-22 (Tilt/Rotor Acft) Osprey						<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)		
<b>Models of Systems Affected:</b> V-22 Series				<b>Modification Type:</b> Safety, Reliability, Increased Service Life, Improved Mission Capability				<b>Related RDT&amp;E PEs:</b> 0604262N				
<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>Modification Item 1 of 1:</b> MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)	- / 37.398	- / 12.364	- / 7.673	- / 15.438	- / -	- / 15.438	- / 16.560	- / 11.236	- / 11.654	- / 13.468	- / 58.881	- / 184.672
<i>Subtotal: Installation</i>	- / 37.398	- / 12.364	- / 7.673	- / 15.438	- / -	- / 15.438	- / 16.560	- / 11.236	- / 11.654	- / 13.468	- / 58.881	- / 184.672
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	<b>721.940</b>	<b>105.063</b>	<b>82.173</b>	<b>71.151</b>	<b>-</b>	<b>71.151</b>	<b>74.127</b>	<b>77.395</b>	<b>94.346</b>	<b>70.715</b>	<b>312.926</b>	<b>1,609.836</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> 0590 / V-22 (Tilt/Rotor Acft) Osprey			<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)	
<b>Modification Item 1 of 1:</b> MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)							
<b>Manufacturer Information</b>							
Manufacturer Name: Block A to B				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 21			
<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	Dec 2013	Dec 2014	Dec 2015				
Delivery Dates	Oct 2015	Sep 2016	Sep 2017				
Manufacturer Name: Enhanced Crash Survivable Memory Unit				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 11			
<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	Nov 2014	Nov 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	
Delivery Dates	Oct 2015	Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	
Manufacturer Name: FLIR ELAP				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 10			
<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		Dec 2014	Dec 2015	Dec 2016			
Delivery Dates		Oct 2015	Oct 2016	Oct 2017			
Manufacturer Name: IGV & Hyd Flow Reg				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 3			
<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	Jan 2014	Jan 2015					
Delivery Dates	Apr 2014	Apr 2015					
Manufacturer Name: Cargo Winch System Redesign				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 11				Production Leadtime (in Months): 2			
<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							
Delivery Dates							
Manufacturer Name: V-22 Integrated Aircraft Survivability Equipment				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
<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	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey			<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)	
<b>Modification Item 1 of 1:</b> MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)							
<b>Manufacturer Information</b>							
<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>
Delivery Dates		Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Manufacturer Name: Main Landing Fire Suppression				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 18			
<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	Aug 2014	Aug 2015					
Delivery Dates	Sep 2016	Jan 2017					
Manufacturer Name: SLIM MFD				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 4			
<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				Jun 2017	Jun 2018	Jun 2019	Jun 2020
Delivery Dates				Oct 2017	Oct 2018	Oct 2019	Oct 2020
Manufacturer Name: Traffic Collision Avoidance System (TCAS)				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 8				Production Leadtime (in Months): 5			
<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			May 2016	May 2017	May 2018	May 2019	May 2019
Delivery Dates			Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2019
Manufacturer Name: Digital Interoperability				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
<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	Mar 2019	Mar 2020
Delivery Dates				Oct 2017	Oct 2018	Oct 2019	Oct 2020
Manufacturer Name: Enhanced Standby Flight Instrument				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
<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 2018	Mar 2019	Mar 2020
Delivery Dates					Oct 2018	Oct 2019	Oct 2020
Manufacturer Name: Rapid Ground Refueling				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 12			

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Modification Item 1 of 1:** MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Manufacturer Information**

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

Manufacturer Name: Nose Landing Gear Door	Manufacturer Location: N/A
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 15

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

Manufacturer Name: IR Suppressor	Manufacturer Location: N/A
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 21

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

Manufacturer Name: Software Reprogrammable Payload	Manufacturer Location: N/A
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 7

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

**Installation Information**

**Method of Implementation:** Contractor Drive-In Mod:: Installation Name: Block A to B

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 / 30.863	4 / 9.256	2 / 5.804	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 45.923
FY 2014	- / -	- / -	- / -	2 / 4.600	- / -	2 / 4.600	- / -	- / -	- / -	- / -	- / -	2 / 4.600
FY 2015	- / -	- / -	- / -	2 / 4.600	- / -	2 / 4.600	2 / 4.885	- / -	- / -	- / -	- / -	4 / 9.485
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.885	- / -	- / -	- / -	- / -	2 / 4.885
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Modification Item 1 of 1:** MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Installation Information**

**Method of Implementation:** Contractor Drive-In Mod:: Installation Name: Block A to B

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 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	13 / 30.863	4 / 9.256	2 / 5.804	4 / 9.200	- / -	4 / 9.200	4 / 9.770	- / -	- / -	- / -	- / -	27 / 64.893

**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	-	-	2	2	1	1	-	-	2	-	-	2	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
Out	13	-	-	2	2	1	1	-	-	2	-	-	2	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Cargo Winch System Redesign

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	- / -	14 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.014
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	14 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.014

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Modification Item 1 of 1:** MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Installation Information**

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Cargo Winch System Redesign

**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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Out	-	3	3	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14

**Method of Implementation:** Contractor Drive In Mod:: Installation Name: Digital Interoperability

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.960
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.141
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.247
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 1.399
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	235 / 9.962
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.960
												28 / 1.141
												30 / 1.247
												33 / 1.399
												235 / 9.962
												268 / 11.361
												350 / 14.709

**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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	7	7	7	7	7	7	8	8	268	350
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	7	7	7	7	7	7	8	8	268	350

**Method of Implementation:** Contractor Forced Retrofit of Components:: Installation Name: Enhanced Crash Survivable Memory Unit

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	- / -	- / -	48 / 0.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.480

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Modification Item 1 of 1:** MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Installation Information**

**Method of Implementation:** Contractor Forced Retrofit of Components:: Installation Name: Enhanced Crash Survivable Memory Unit

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 2014	- / -	- / -	- / -	48 / 0.493	- / -	48 / 0.493	- / -	- / -	- / -	- / -	- / -	48 / 0.493
FY 2015	- / -	- / -	- / -	32 / 0.322	- / -	32 / 0.322	- / -	- / -	- / -	- / -	- / -	32 / 0.322
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.498	- / -	- / -	- / -	- / -	48 / 0.498
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.507	- / -	- / -	- / -	48 / 0.507
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.140	- / -	- / -	13 / 0.140
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.109	- / -	10 / 0.109
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	48 / 0.480	80 / 0.815	- / -	80 / 0.815	48 / 0.498	48 / 0.507	13 / 0.140	10 / 0.109	- / -	247 / 2.549

**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	-	-	-	-	12	12	12	12	20	20	20	20	12	12	12	12	12	12	12	12	3	3	3	4	2	2	3	3	-	247
Out	-	-	-	-	12	12	12	12	20	20	20	20	12	12	12	12	12	12	12	12	3	3	3	4	2	2	3	3	-	247

**Method of Implementation:** Contractor Drive In Mod:: Installation Name: Enhanced Standby Flight Instrument

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.120	- / -	- / -	28 / 1.120
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 1.345	- / -	33 / 1.345
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 1.369	33 / 1.369
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 1.785	43 / 1.785
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.120	33 / 1.345	76 / 3.154	137 / 5.619

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Modification Item 1 of 1:** MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Installation Information**

**Method of Implementation:** Contractor Drive In Mod:: Installation Name: Enhanced Standby Flight Instrument

**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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	8	8	8	8	9	76	137			
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76	137

**Method of Implementation:** Contractor Field Modification:: Installation Name: FLIR ELAP

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	- / -	- / -	- / -	20 / 0.120	- / -	20 / 0.120	- / -	- / -	- / -	- / -	- / -	20 / 0.120
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	50 / 0.306	- / -	- / -	- / -	- / -	50 / 0.306
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 0.342	- / -	- / -	- / -	55 / 0.342
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	20 / 0.120	- / -	20 / 0.120	50 / 0.306	55 / 0.342	- / -	- / -	- / -	125 / 0.768

**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	5	5	13	13	12	12	13	14	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125		
Out	-	-	-	-	-	-	-	-	-	5	5	5	5	13	13	12	12	13	14	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125

**Method of Implementation:** Contractor Forced Retrofit of Components:: Installation Name: IGV & Hyd Flow Reg

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	126 / 3.556	60 / 0.974	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	186 / 4.530

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Modification Item 1 of 1:** MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Installation Information**

**Method of Implementation:** Contractor Forced Retrofit of Components:: Installation Name: IGV & Hyd Flow Reg

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 2014	- / -	3 / 0.127	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.127
FY 2015	- / -	- / -	42 / 1.241	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 1.241
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	126 / 3.556	63 / 1.101	42 / 1.241	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	231 / 5.898

**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	126	15	15	17	16	-	-	21	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	126	15	15	17	16	-	-	21	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Method of Implementation:** Contractor Forced Retrofit of Components:: Installation Name: IR Suppressor

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	51 / 0.644	8 / 0.145	8 / 0.148	1 / 0.019	- / 0.000	1 / 0.019	- / -	- / -	- / -	- / -	- / -	68 / 0.956
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	51 / 0.644	8 / 0.145	8 / 0.148	1 / 0.019	- / -	1 / 0.019	- / -	- / -	- / -	- / -	- / -	68 / 0.956



**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Modification Item 1 of 1:** MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Installation Information**

**Method of Implementation:** Contractor Forced Retrofit of Components:: Installation Name: IR Suppressor

**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	51	2	2	2	2	2	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68
Out	51	2	2	2	2	2	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68

**Method of Implementation:** Navy Field Modification:: Installation Name: Main Landing Fire Suppression

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	76 / 0.758	72 / 1.041	- / -	56 / 0.892	- / 0.000	56 / 0.892	- / -	- / -	- / -	- / -	- / -	204 / 2.691
FY 2014	- / -	- / -	- / -	6 / 0.096	- / -	6 / 0.096	8 / 0.128	- / -	- / -	- / -	- / -	14 / 0.224
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.520	- / -	- / -	- / -	- / -	32 / 0.520
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	76 / 0.758	72 / 1.041	- / -	62 / 0.988	- / -	62 / 0.988	40 / 0.648	- / -	- / -	- / -	- / -	250 / 3.435

**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	76	18	18	18	18	-	-	-	-	14	14	14	20	8	10	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250
Out	76	18	18	18	18	-	-	-	-	14	14	14	20	8	10	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Nose Landing Gear

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	142 / 0.405	48 / 0.297	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	190 / 0.702

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Modification Item 1 of 1:** MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Installation Information**

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Nose Landing Gear

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 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	142 / 0.405	48 / 0.297	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	190 / 0.702

**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	142	-	-	24	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	142	-	-	24	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Rapid Ground 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	103 / 1.172	45 / 0.510	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	148 / 1.682
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	103 / 1.172	45 / 0.510	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	148 / 1.682

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Modification Item 1 of 1:** MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Installation Information**

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Rapid Ground Refueling

**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	103	11	11	12	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	148
Out	103	11	11	12	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	148

**Method of Implementation:** Contractor Field Modification:: Installation Name: Slim MFD

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.742
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.756	- / -	20 / 0.756
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.770	20 / 0.770
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.784
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.235
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.742	20 / 0.756	20 / 0.770	26 / 1.019

**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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	26	86
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	26	86

**Method of Implementation:** Contractor Drive In Mod:: Installation Name: Software Reprogrammable Payload

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Modification Item 1 of 1:** MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Installation Information**

**Method of Implementation:** Contractor Drive In Mod:: Installation Name: Software Reprogrammable Payload

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 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.205	- / -	- / -	- / -	22 / 3.205
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 3.121	- / -	- / -	21 / 3.121
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.334	- / -	22 / 3.334
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.335	22 / 3.335
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 15.914	105 / 15.914
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.205	21 / 3.121	22 / 3.334	127 / 19.249	192 / 28.909

**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	6	5	5	5	6	5	5	6	6	127	192
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	6	6	5	5	5	6	5	5	6	6	127	192

**Method of Implementation:** Contractor Forced Retrofit of Components:: Installation Name: Traffic Collision Avoidance System (TC)

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	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.960	- / -	- / -	- / -	- / -	24 / 0.960
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 1.019	- / -	- / -	- / -	25 / 1.019
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.830	- / -	- / -	20 / 0.830
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.031	- / -	48 / 2.031
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.035	48 / 2.035
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 2.363	54 / 2.363
Total	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.960	25 / 1.019	20 / 0.830	48 / 2.031	102 / 4.398	219 / 9.238

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Modification Item 1 of 1:** MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Installation Information**

**Method of Implementation:** Contractor Forced Retrofit of Components:: Installation Name: Traffic Collision Avoidance System (TC)

**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	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	7	5	5	5	5	12	12	12	12	102	219
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	7	5	5	5	5	12	12	12	12	102	219

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: V-22 Integrated Aircraft Survivability Equipme

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	- / -	- / -	- / -	24 / 4.296	- / -	24 / 4.296	- / -	- / -	- / -	- / -	- / -	24 / 4.296
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.378	- / -	- / -	- / -	- / -	24 / 4.378
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.461	- / -	- / -	- / -	24 / 4.461
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.546	- / -	- / -	24 / 4.546
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.632	- / -	24 / 4.632
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.728	24 / 4.728
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	76 / 14.972	76 / 14.972
Total	- / -	- / -	- / -	24 / 4.296	- / -	24 / 4.296	24 / 4.378	24 / 4.461	24 / 4.546	24 / 4.632	100 / 19.700	220 / 42.013

**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	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	100	220
Out	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	100	220

**Method of Implementation (Organic):** Organic - BFT II Block C

**Installation Quantity:** 24

**Method of Implementation (Organic):** Organic - BFT II Block C MTX Kits

**Installation Quantity:** 66

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Modification Item 1 of 1:** MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

**Installation Information**

<b>Method of Implementation (Organic):</b> Organic - Block A to B GFE	<b>Installation Quantity:</b> 27
<b>Method of Implementation (Organic):</b> Organic - Cabin Situational Awareness Device	<b>Installation Quantity:</b> 18
<b>Method of Implementation (Organic):</b> Organic - Data Transfer System	<b>Installation Quantity:</b> 38
<b>Method of Implementation (Organic):</b> Organic - Data Transfer Unit	<b>Installation Quantity:</b> 306
<b>Method of Implementation (Organic):</b> Organic - Digital Interoperability - GFE	<b>Installation Quantity:</b> 350
<b>Method of Implementation (Organic):</b> Organic - FLIR SEU	<b>Installation Quantity:</b> 15
<b>Method of Implementation (Organic):</b> Organic - Gen 5 Radio ARC 210	<b>Installation Quantity:</b> 70
<b>Method of Implementation (Organic):</b> Organic - KVADR GFE	<b>Installation Quantity:</b> 224
<b>Method of Implementation (Organic):</b> Organic - Ramp Mounted Weapon System	<b>Installation Quantity:</b> 212
<b>Method of Implementation (Organic):</b> Not Installed - Archived ECPs	<b>Installation Quantity:</b> 2979
<b>Method of Implementation (Organic):</b> Organic - Slim MFD	<b>Installation Quantity:</b> 86
<b>Method of Implementation (Organic):</b> Organic - Enhanced Standby Flight Instrument	<b>Installation Quantity:</b> 137
<b>Method of Implementation (Organic):</b> Not Installed - Archived B Kits	<b>Installation Quantity:</b> 72

**Footnotes:**

- (1) IR Suppressor: Kits are being installed as they are being delivered, kit deliveries have been delayed due to long production lead time.
- (2) Software modifications needed to incorporate ECP changes in order to correct deficiencies.

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

<sup>(3)</sup> Training Equipment: The increase between FY17 and FY19 is due to the Block C modification of training simulators and maintenance trainers.

<sup>(4)</sup> FY14-15 Interim Contractor Support (ICS) growth due to requirement of ICS for Interim Defensive Weapon System (IDWS).

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)
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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> )	58.379	24.085	46.982	50.057	4.900	54.957	68.002	78.793	76.193	64.704	415.544	887.639
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	58.379	24.085	46.982	50.057	4.900	54.957	68.002	78.793	76.193	64.704	415.544	887.639
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>58.379</b>	<b>24.085</b>	<b>46.982</b>	<b>50.057</b>	<b>4.900</b>	<b>54.957</b>	<b>68.002</b>	<b>78.793</b>	<b>76.193</b>	<b>64.704</b>	<b>415.544</b>	<b>887.639</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 Operational Safety Improvement Program is established for the correction of readiness degraders impacting MV-22 cost per flight hour, Reliability Maintainability and Availability (RM&A), obsolescence, and reduction of life-cycle costs. These modifications (MODs) will be accomplished by field retrofit and implemented to coincide with resources and aircraft availability. In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the V-22 Aircraft platform.

**CURRENT/ACTIVE ECPs:**

- 13 Wiring Harness: Improve harness reliability by reducing higher than expected failures due to chafing in the backshells and external environmental effects.
- Swash plate actuator: To improve cup seal leakage issues.
- Drive Tube: This effort will redesign drive tube which will eliminate an O level recurring inspection as it will decrease stresses at the lower end without affecting the interface with the mast.
- Ice Protection System: Strengthens component parts which have been prone to stress failures or fraying, Central De-ice Device and Nacelle Ice Protection Control Unit / Master Ice Protection Controller.
- Prop Rotor Coating: To better protect the rotor blade aiding in its longer use before needing replacement.
- Engine Air Particle Separator (EAPS): Start Valve Block A/B/10 Improvements to the Start Circuit side of the EAPS Start Valve Module, will provide for increase reliability.
- Constant Frequency Generator (CFG) Tilt Axis Gear Box (TAGB) Adapter: Modify the CFG-TAGB adapter to allow a modified CFG, to utilize the TAGB internal oil/air mixture to increase CFG scavenge pump efficiency.
- Avionics Bay Interface Unit (Pressure Switch Interface Unit) allows real time monitoring of electrical loading on various generators and power busses, improving management in high workload to reduce replacement costs.
- CFG Redesign of the constant frequency generator to significantly improve the reliability and maintainability while reducing the overall Aircraft cost.
- V-22 PRGB Imp Input Quill Wavespring (Formerly known as Drive System Improvement Input Quill Wavespring): To eliminate resident issues with Input Quill Wave Spring and to Purge Fleet of Thin Densd Chrome.
- Aircraft Bus Tie Circuit Reliability Improvement to provide the ability to power all buses with a battery start of the APU in the presence of a failed Regulated Converter.
- Sponson refuel-defuel valve: Decreased air ingestion by improving internal components to resist vibration during engine operation.
- Landing Gear Control Unit: improvement to circuit cards to better control electricity to control unit.
- Primary Lighting Control Unit: increase resister control to primary lighting to prevent burn outs to control unit.
- Rudder Attachment Reliability Improvement: upgrade to bearings associated with the rear rudder.
- Upper and Lower Rod Ends Redesign to prevent excessive wear from normal proprotor operation.
- Gimbal Assembly Increase mean time between failures of the swashplate and hub assembly (which includes the gimbal assembly).
- APX-123 Replaces the APX-118 Identification, Friend or Foe transponder with the required MODE 5 capable APX-123 transponder.



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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)
<p>Diverter Valve Integration: The change will reduce engine removals due to oil system failures, static oil leaks and smoky engine starts. The change also provides mitigation to FRA-2010-14, Thermal Distress Induced Turbine Wheel Spline.</p> <p>Nacelle Heat Exchanger: Improve Nacelle components cooling capability by increasing part reliability, maintainability, and availability.</p> <p>PRGB Atmospheric Protection and Mast Seal Improvement: This initiative reduces corrosion related removals due to water intrusion.</p> <p>Drive Link/Hub Spring Change: The drive link and hub spring are critical components of the Proprotor Hub Assembly. This effort will reduce the the current safety risk and improve readiness of aircraft.</p> <p>Threaded Bushing Improvements: This effort addresses Reliability and Maintainability driven issues caused by the current bushing bolts cracking. The redesigned bushing bolt will correct the cracking and separation that is occurring in the current bolt.</p> <p>Emergency Oxygen (O2) Bottle Gauge: Current pressure gauge is small, difficult to read and does not compensate for temperature. This effort implements a larger temperature compensated pressure gauge to allow better identification of O2 levels in the Emergency O2 Bottle utilized in the MV/CV-22 Osprey.</p> <p>Bellows Tailpipe: Redesign of the interface between the engine exhaust and the airframe.</p> <p>Engine Durability Concepts: Retrofit of Rolls-Royce developed improvements that provide a favorable Naval Aviation Enterprise (NAE) Return on Investment (ROI) but not necessarily a Rolls-Royce ROI.</p> <p>APU Impeller Durability: Multi-phase program with a trade/feasibility study as Phase 1. Study will include Inlet Barrier Filter (IBF) and erosion corrosion coating. Phase 2 is NRE development of downselected option. Phase 3 is retrofit.</p> <p>Formsprag Clutch.</p> <p>VSLED Vibration Transducers and Mounting Pads: Add phenolic washers between the transducer and mounting pads for sensor locations. The washers will alleviate the base strain condition by stiffening the transducer base, preventing the case flexures which cause the out-of-range spike output.</p> <p>SDC Impeller: Addresses root cause of Shaft Driven Compressor (SDC) Impeller removal.</p> <p>Life Limited Airframe Corrections: This effort addresses Safety, Readiness, Reliability and Maintainability (R&amp;M) issues that drive the need for the incorporation of Airframe Fatigue Test Program (AFTP) structural modifications onto the MV/CV-22 Osprey.</p> <p>Mission Computer Obsolescence Initiative (MCOI) Retrofit: MCOI replaces several components and allows planned capabilities to operate without memory processing power or memory storage. Has a positive Return on Investment (ROI) compared too many other costs that would be absorbed (avoidance).</p> <p>Aft Sponson Fuel Tank (OCO): This improvement will increase combat range and endurance of the MV-22 and enable accomplishment of the Rapid Ground Refueling (RGR) mission with a single aircraft, greatly enhancing support to the Marine Air Ground Task Force during expeditionary operations.</p> <p><b>FUTURE ECPs:</b></p> <p>Infra-red Suppressor (IRS) Redesign: Eliminate some IRS components while maintaining structural support, coanda mounting points and vibration requirements.</p> <p>VFG GCU Redesign: ntegrates a new Variable Frequency Generator with a separate microprocessor controlled Generator Control Unit (GCU).</p> <p>Standby Flight Display (SFD): This item is obsolete with several key components that must be redesigned. No parts available to perform repairs beyond FY-16, must have qualified SFD or aircraft readiness degrades rapidly.</p> <p>Improved Inlet Solution: This change improves airborne particulate separation from the engine air flow by upgrading air inlet scroll. The initiative will improve engine Time on Wing (TOW).</p> <p>Non-Integrated Line-of-Sight Variable Message Format (LOS VMF) - Cockpit and Troop Commander upgrades to enable two way messaging of LOS VMF (aka Strikelink). Data will include text and imagery. Also addition of video send/receive capability to receive sensor video from other Marine Aviation Combat Element (ACE), Joint Forces, or Unamnned Air Vehicle platforms. This capability also includes the ability to broadcast V-22 sensor or display video to other platforms.</p> <p>Midair Conflict Avoidance System/Airborne Collision Avoidance System Long-term solution for Airborne Collision Avoidance to improve survivability by providing warning of impending mid-air collisions. High Power Amplifier/Low Noise Amplifier- Block C adds a new Satellite Communications antenna to the V-22, with input jacks available on the Block C Troop Commander panel.</p> <p>Prior year Kit buy and installs for Nose Landing Gear funded under OSIP 22-01.</p>		

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey						<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)		
<b>Models of Systems Affected:</b> V-22 Series				<b>Modification Type:</b> Reliability, Cost-per-flight hour, Reduction in Total Ownership cost				<b>Related RDT&amp;E PEs:</b> 0604262N				
<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>												
<b>Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)</b>												
A Kits												
Recurring												
1.1.1) 13 Wiring Harness - NonOrganic	63 / 3.857	43 / 1.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 5.457
1.1.2) Swashplate Actuator - NonOrganic	48 / 0.344	48 / 0.351	48 / 0.358	48 / 0.364	- / -	48 / 0.364	51 / 0.395	35 / 0.276	- / -	- / -	- / -	278 / 2.088
1.1.3) Drive Tube - NonOrganic	- / -	29 / 0.638	29 / 0.650	29 / 0.662	- / -	29 / 0.662	29 / 0.675	29 / 0.688	29 / 0.701	29 / 0.714	17 / 0.419	220 / 5.147
1.1.4) Gimbal Assembly Part 2 - NonOrganic	33 / 0.669	39 / 0.794	48 / 0.996	48 / 1.015	- / -	48 / 1.015	52 / 1.120	38 / 0.834	38 / 0.850	38 / 0.866	- / -	334 / 7.144
1.1.5) Upper and Lower Rod Ends - NonOrganic	29 / 2.610	10 / 0.900	10 / 0.917	29 / 2.710	- / -	29 / 2.710	29 / 2.762	29 / 2.814	29 / 2.868	29 / 2.922	117 / 11.789	311 / 30.292
1.1.6) IRS Redesign - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 6.114	25 / 15.591	26 / 16.539	26 / 16.869	406 / 263.422	493 / 318.535
1.1.7) APU Impeller Durability - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.300	9 / 0.306	6 / 0.208	- / -	24 / 0.814
1.1.8) IPS (CDD) - NonOrganic	91 / 18.010	12 / 1.786	6 / 0.910	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	109 / 20.706
1.1.9) IPS (CDD/NIPCU) - NonOrganic	34 / 1.860	- / -	6 / 1.560	3 / 0.795	- / -	3 / 0.795	- / -	- / -	- / -	- / -	- / -	43 / 4.215
1.1.10) IPS (CDD/NIPCU) Organic - Organic	- / -	- / -	6 / 0.396	2 / 0.135	- / -	2 / 0.135	6 / 0.411	4 / 0.279	- / -	- / -	- / -	18 / 1.221
1.1.11) SDC Impeller - Organic	- / -	- / -	- / -	105 / 5.355	- / -	105 / 5.355	105 / 5.462	105 / 5.566	93 / 5.028	- / -	- / -	408 / 21.411
1.1.12) Nacelle Heat Exchanger - Organic	72 / 3.204	100 / 3.825	100 / 3.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	272 / 10.929
1.1.13) Formsprag Clutch - Organic	- / -	- / -	- / -	- / -	- / -	- / -	60 / 3.000	60 / 3.060	60 / 3.121	60 / 3.184	127 / 6.739	367 / 19.104
1.1.14) Engine Durability Concepts - Organic	- / -	- / -	90 / 2.700	90 / 2.754	- / -	90 / 2.754	90 / 2.809	90 / 2.865	90 / 2.920	- / -	- / -	450 / 14.048
1.1.15) Bellows Tailpipe - Organic	- / -	- / -	90 / 0.225	101 / 0.257	- / -	101 / 0.257	121 / 0.314	51 / 0.135	- / -	- / -	- / -	363 / 0.931
1.1.16) Landing Gear Control Unit - Organic	94 / 0.756	60 / 0.480	60 / 0.489	60 / 0.498	- / -	60 / 0.498	60 / 0.508	- / -	- / -	- / -	- / -	334 / 2.731
1.1.17) PLCU Retrofit - NonOrganic	240 / 0.508	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	240 / 0.508
1.1.18) PRGB Atmospheric Protection and Mast Seal Improvement - Organic	- / -	- / -	24 / 0.538	24 / 0.548	- / -	24 / 0.548	24 / 0.559	33 / 0.784	36 / 0.873	36 / 0.890	55 / 1.360	232 / 5.552
1.1.19) Prop Rotor Coating Improvement - Organic	- / -	- / -	180 / 1.080	180 / 1.101	- / -	180 / 1.101	180 / 1.121	180 / 1.143	180 / 1.164	180 / 1.187	1,002 / 6.605	2,082 / 13.401
1.1.20) Rudder Attachment Reliability Improvement - NonOrganic	66 / 0.891	66 / 0.891	60 / 0.825	60 / 0.841	- / -	60 / 0.841	13 / 0.186	- / -	- / -	- / -	- / -	265 / 3.634
1.1.21) Nose Landing Gear Door Mechanism - NonOrganic	- / -	48 / 0.307	48 / 0.313	9 / 0.061	- / -	9 / 0.061	- / -	- / -	- / -	- / -	- / -	105 / 0.681
1.1.22) Drive Link/Prop Rotor Hub Spring Change - NonOrganic	- / -	- / -	20 / 4.076	20 / 4.153	- / -	20 / 4.153	20 / 4.232	30 / 6.469	20 / 4.395	20 / 4.478	170 / 38.065	300 / 65.868
1.1.23) O2 Guage - Organic	- / -	75 / 0.083	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 0.083
1.1.24) Threaded Bushing Improvements - Organic	- / -	576 / 0.230	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	576 / 0.230
1.1.25) Life Limited Airframe Corrections - NonOrganic	- / -	- / -	6 / 0.108	16 / 0.293	- / -	16 / 0.293	24 / 0.449	24 / 0.457	24 / 0.466	24 / 0.475	91 / 1.800	209 / 4.048
1.1.26) CFG TAGB Adapter Flange - Organic	114 / 0.125	85 / 0.094	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	199 / 0.219

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey						<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)			
<b>Models of Systems Affected:</b> V-22 Series				<b>Modification Type:</b> Reliability, Cost-per-flight hour, Reduction in Total Ownership cost				<b>Related RDT&amp;E PEs:</b> 0604262N					
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)	
1.1.27) AC Bus Tie Circuit Reliability Improvement - NonOrganic	- / -	- / -	96 / 0.432	135 / 0.620	- / -	135 / 0.620	- / -	- / -	- / -	- / -	- / -	231 / 1.052	
1.1.28) V-22 PRGB Imp Input Quill Wavespring - NonOrganic	- / -	- / -	36 / 0.648	36 / 0.661	- / -	36 / 0.661	36 / 0.674	19 / 0.363	- / -	- / -	- / -	127 / 2.346	
1.1.29) EAPS Start Valve Block - NonOrganic	- / -	41 / 0.673	36 / 0.602	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	77 / 1.275	
1.1.30) EAPS Start Valve Block A/B/C/10 Organic - Organic	- / -	- / -	36 / 0.216	36 / 0.220	- / -	36 / 0.220	36 / 0.225	36 / 0.229	48 / 0.311	- / -	- / -	192 / 1.201	
1.1.31) APX-123 - NonOrganic	28 / 0.031	34 / 0.038	37 / 0.042	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	99 / 0.111	
1.1.32) VFG GCU Redesign - Organic	- / -	- / -	- / -	- / -	- / -	- / -	100 / 3.900	100 / 3.974	83 / 3.361	- / -	- / -	283 / 11.235	
1.1.33) VSLED Vibration Transducers and Pads - Organic	- / -	- / -	197 / 0.020	27 / 0.003	- / -	27 / 0.003	- / -	- / -	- / -	- / -	- / -	224 / 0.023	
1.1.34) Stand by Flight Display - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	45 / 1.150	45 / 1.172	45 / 1.194	45 / 1.217	45 / 1.218	225 / 5.951	
1.1.35) MCOI Retrofit - NonOrganic	- / -	- / -	23 / 8.786	29 / 11.288	- / -	29 / 11.288	35 / 13.883	35 / 14.147	35 / 14.415	35 / 14.689	31 / 13.011	223 / 90.219	
1.1.36) Aft Sponson Fuel Tank (OCO) - NonOrganic	- / -	- / -	- / -	- / -	24 / 3.792	24 / 3.792	- / -	- / -	- / -	- / -	- / -	24 / 3.792	
1.1.37) Archived ECPs - Organic <sup>(5)</sup>	700 / 16.977	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	700 / 16.977	
<b>Subtotal: Recurring</b>	<b>- / 49.842</b>	<b>- / 12.690</b>	<b>- / 30.787</b>	<b>- / 34.334</b>	<b>- / 3.792</b>	<b>- / 38.126</b>	<b>- / 49.949</b>	<b>- / 61.146</b>	<b>- / 58.512</b>	<b>- / 47.699</b>	<b>- / 344.428</b>	<b>- / 693.179</b>	
<b>Non-Recurring</b>													
1.2.1) Installation Kits N/R - Organic	- / 1.512	- / 2.745	- / 3.880	- / 1.024	- / 1.012	- / 2.036	- / 1.043	- / 1.063	- / 1.082	- / 1.104	- / 2.700	- / 17.165	
<b>Subtotal: Non-Recurring</b>	<b>- / 1.512</b>	<b>- / 2.745</b>	<b>- / 3.880</b>	<b>- / 1.024</b>	<b>- / 1.012</b>	<b>- / 2.036</b>	<b>- / 1.043</b>	<b>- / 1.063</b>	<b>- / 1.082</b>	<b>- / 1.104</b>	<b>- / 2.700</b>	<b>- / 17.165</b>	
<b>Subtotal: MV-22 Readiness (OSIP 028-12)</b>	<b>1,612 / 51.354</b>	<b>1,266 / 15.435</b>	<b>1,292 / 34.667</b>	<b>1,087 / 35.358</b>	<b>24 / 4.804</b>	<b>1,111 / 40.162</b>	<b>1,126 / 50.992</b>	<b>977 / 62.209</b>	<b>845 / 59.594</b>	<b>528 / 48.803</b>	<b>2,061 / 347.128</b>	<b>10,818 / 710.344</b>	
<b>Subtotal: Procurement, All Modification Items</b>	<b>- / 51.354</b>	<b>- / 15.435</b>	<b>- / 34.667</b>	<b>- / 35.358</b>	<b>- / 4.804</b>	<b>- / 40.162</b>	<b>- / 50.992</b>	<b>- / 62.209</b>	<b>- / 59.594</b>	<b>- / 48.803</b>	<b>- / 347.128</b>	<b>- / 710.344</b>	
<b>Support (All Modification Items)</b>													
2.1) Software Modifications	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
2.2) Engineering Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
2.3) Data	- / 0.708	- / 0.202	- / 0.252	- / 0.255	- / -	- / 0.255	- / 0.262	- / 0.242	- / 0.272	- / 0.200	- / 0.580	- / 2.973	
2.4) Training Equipment	- / -	- / 0.053	- / 0.491	- / 0.062	- / -	- / 0.062	- / 0.123	- / 0.268	- / 0.229	- / 0.141	- / -	- / 1.367	
2.5) Support Equipment	- / -	- / -	- / 0.439	- / 0.148	- / -	- / 0.148	- / 0.258	- / 0.300	- / 0.306	- / 0.312	- / 0.620	- / 2.383	
2.6) ILS	- / -	- / -	- / 0.485	- / 0.494	- / -	- / 0.494	- / 0.505	- / 0.515	- / 0.523	- / 0.533	- / 2.750	- / 5.805	
2.7) Other Support	- / 5.433	- / 3.876	- / 3.584	- / 3.653	- / -	- / 3.653	- / 3.722	- / 3.794	- / 3.865	- / 3.939	- / 23.500	- / 55.366	
2.8) Interim Contractor Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Support</b>	<b>- / 6.141</b>	<b>- / 4.131</b>	<b>- / 5.251</b>	<b>- / 4.612</b>	<b>- / -</b>	<b>- / 4.612</b>	<b>- / 4.870</b>	<b>- / 5.119</b>	<b>- / 5.195</b>	<b>- / 5.125</b>	<b>- / 27.450</b>	<b>- / 67.894</b>	
<b>Installation</b>													
<b>Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)</b>	<b>- / 0.884</b>	<b>- / 4.519</b>	<b>- / 7.064</b>	<b>- / 10.087</b>	<b>- / 0.096</b>	<b>- / 10.183</b>	<b>- / 12.140</b>	<b>- / 11.465</b>	<b>- / 11.404</b>	<b>- / 10.776</b>	<b>- / 40.966</b>	<b>- / 109.401</b>	

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)
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<b>Models of Systems Affected:</b> V-22 Series	<b>Modification Type:</b> Reliability, Cost-per-flight hour, Reduction in Total Ownership cost	<b>Related RDT&amp;E PEs:</b> 0604262N
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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)
<i>Subtotal: Installation</i>	- / 0.884	- / 4.519	- / 7.064	- / 10.087	- / 0.096	- / 10.183	- / 12.140	- / 11.465	- / 11.404	- / 10.776	- / 40.966	- / 109.401
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	<b>58.379</b>	<b>24.085</b>	<b>46.982</b>	<b>50.057</b>	<b>4.900</b>	<b>54.957</b>	<b>68.002</b>	<b>78.793</b>	<b>76.193</b>	<b>64.704</b>	<b>415.544</b>	<b>887.639</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> 0590 / V-22 (Tilt/Rotor Acft) Osprey			<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)	
<b>Modification Item 1 of 1:</b> MV-22 Readiness (OSIP 028-12)							
<b>Manufacturer Information</b>							
Manufacturer Name: 13 Wiring Harness				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 4			
<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	Jun 2014						
Delivery Dates	Oct 2014						
Manufacturer Name: Swashplate Actuator				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 3			
<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	Jul 2014	Jul 2015	Jul 2016	Jul 2017	Jul 2018		
Delivery Dates	Oct 2014	Oct 2015	Oct 2016	Oct 2017	Oct 2018		
Manufacturer Name: Drive Tube				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 1			
<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	Nov 2013	Nov 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019
Delivery Dates	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019
Manufacturer Name: Gimbal Assembly Part 2				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 4			
<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	Jun 2014	Jun 2015	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020
Delivery Dates	Oct 2014	Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Manufacturer Name: Upper and Lower Rod Ends				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 1			
<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	Jul 2014	Oct 2014	Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019
Delivery Dates	Sep 2014	Nov 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019
Manufacturer Name: IRS Redesign				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 9			
<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				Jan 2017	Jan 2018	Jan 2019	Jan 2020
Delivery Dates				Oct 2017	Oct 2018	Oct 2019	Oct 2020
Manufacturer Name: IPS (CDD/NIPCU)				Manufacturer Location: N/A			

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey		<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)		
<b>Modification Item 1 of 1:</b> MV-22 Readiness (OSIP 028-12)							
<b>Manufacturer Information</b>							
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 12			
<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	Oct 2013	Nov 2014	Nov 2015				
Delivery Dates	Nov 2014	Nov 2015	Nov 2016				
Manufacturer Name: Rudder Attachment Reliability Improvement				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 11			
<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	Oct 2013	Oct 2014	Oct 2015	Oct 2016			
Delivery Dates	Nov 2014	Nov 2015	Nov 2016	Nov 2017			
Manufacturer Name: Nose Landing Gear Door Mechanism				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 1			
<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	Oct 2013	Oct 2014	Oct 2015				
Delivery Dates	Nov 2013	Nov 2014	Nov 2015				
Manufacturer Name: Drive Link/Prop Rotor Hub Spring				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
<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	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020
Delivery Dates		Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Manufacturer Name: Life Limited Airframe Corrections				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 4			
<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		Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019
Delivery Dates		Apr 2015	Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020
Manufacturer Name: AC Bus Tie Circuit Reliability Improvement				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 3			
<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		Jul 2015	Jul 2016				
Delivery Dates		Oct 2015	Oct 2016				
Manufacturer Name: V-22 PRGB Imp Input Quill Wavespring				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 3			

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey			<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)	
<b>Modification Item 1 of 1:</b> MV-22 Readiness (OSIP 028-12)							
<b>Manufacturer Information</b>							
<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		Jul 2015	Jul 2016	Jul 2017	Jul 2018		
Delivery Dates		Oct 2015	Oct 2016	Oct 2017	Oct 2018		
Manufacturer Name: APX-123/EAPS Start Valve Block A/B/C				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 3			
<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	Jan 2014	Jan 2015					
Delivery Dates	Apr 2014	Apr 2015					
Manufacturer Name: Stand by Flight Display				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
<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	Mar 2019	Mar 2020
Delivery Dates				Oct 2017	Oct 2018	Oct 2019	Oct 2020
Manufacturer Name: MCOI Retrofit				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 10			
<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		Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019
Delivery Dates		Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Manufacturer Name: PLCU Retrofit				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 9			
<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							
Delivery Dates							
Manufacturer Name: Aft Sponson Fuel Tank (OCO)				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 5			
<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				
Delivery Dates			Aug 2016				

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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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)

**Modification Item 1 of 1:** MV-22 Readiness (OSIP 028-12)

**Installation Information**

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: 13 Wiring Harness

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	51 / 0.385	12 / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	63 / 0.443
FY 2014	- / -	- / -	43 / 0.209	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 0.209
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	51 / 0.385	12 / 0.058	43 / 0.209	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 0.652

**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	51	3	3	3	3	10	11	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	51	3	3	3	3	10	11	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Swashplate Actuator

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	- / -	48 / 0.168	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.168
FY 2014	- / -	- / -	48 / 0.171	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.171
FY 2015	- / -	- / -	- / -	48 / 0.174	- / -	48 / 0.174	- / -	- / -	- / -	- / -	- / -	48 / 0.174
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.178	- / -	- / -	- / -	- / -	48 / 0.178
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 0.192	- / -	- / -	- / -	51 / 0.192
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.135	- / -	- / -	35 / 0.135
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	48 / 0.168	48 / 0.171	48 / 0.174	- / -	48 / 0.174	48 / 0.178	51 / 0.192	35 / 0.135	- / -	- / -	278 / 1.018



**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)

**Modification Item 1 of 1:** MV-22 Readiness (OSIP 028-12)

**Installation Information**

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Swashplate Actuator

**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	-	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13	12	9	9	9	8	-	-	-	-	-	278
Out	-	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13	12	9	9	9	8	-	-	-	-	-	278

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Drive Tube

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	- / -	29 / 0.290	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.290
FY 2015	- / -	- / -	29 / 0.296	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.296
FY 2016	- / -	- / -	- / -	29 / 0.301	- / -	29 / 0.301	- / -	- / -	- / -	- / -	- / -	29 / 0.301
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.307	- / -	- / -	- / -	- / -	29 / 0.307
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.334	- / -	- / -	- / -	29 / 0.334
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.341	- / -	- / -	29 / 0.341
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.347	- / -	29 / 0.347
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.204	17 / 0.204
Total	- / -	29 / 0.290	29 / 0.296	29 / 0.301	- / -	29 / 0.301	29 / 0.307	29 / 0.334	29 / 0.341	29 / 0.347	17 / 0.204	220 / 2.420

**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	-	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	17	220
Out	-	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	17	220

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Gimbal Assembly Part 2

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	- / -	33 / 0.388	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	39 / 1.714	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 1.714

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)
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**Modification Item 1 of 1:** MV-22 Readiness (OSIP 028-12)

**Installation Information**

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Gimbal Assembly Part 2

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	- / -	- / -	- / -	48 / 2.150	- / -	48 / 2.150	- / -	- / -	- / -	- / -	- / -	48 / 2.150
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.190	- / -	- / -	- / -	- / -	48 / 2.190
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 2.418	- / -	- / -	- / -	52 / 2.418
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 1.801	- / -	- / -	38 / 1.801
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 1.835	- / -	38 / 1.835
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 1.835	38 / 1.835
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	33 / 0.388	39 / 1.714	48 / 2.150	- / -	48 / 2.150	48 / 2.190	52 / 2.418	38 / 1.801	38 / 1.835	38 / 1.835	334 / 14.331

**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	-	8	8	8	9	9	10	10	10	12	12	12	12	12	12	12	12	13	13	13	13	10	10	9	9	10	10	9	9	38	334
Out	-	8	8	8	9	9	10	10	10	12	12	12	12	12	12	12	12	13	13	13	13	10	10	9	9	10	10	9	9	38	334

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Upper and Lower Rod Ends

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	- / -	29 / 0.190	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.190
FY 2014	- / -	10 / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.050
FY 2015	- / -	- / -	10 / 0.051	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.051
FY 2016	- / -	- / -	- / -	29 / 0.151	- / -	29 / 0.151	- / -	- / -	- / -	- / -	- / -	29 / 0.151
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.153	- / -	- / -	- / -	- / -	29 / 0.153
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.156	- / -	- / -	- / -	29 / 0.156
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.159	- / -	- / -	29 / 0.159
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.162	- / -	29 / 0.162
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	117 / 0.655	117 / 0.655
<b>Total</b>	- / -	39 / 0.240	10 / 0.051	29 / 0.151	- / -	29 / 0.151	29 / 0.153	29 / 0.156	29 / 0.159	29 / 0.162	117 / 0.655	311 / 1.727

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)

**Modification Item 1 of 1:** MV-22 Readiness (OSIP 028-12)

**Installation Information**

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Upper and Lower Rod Ends

**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	-	9	10	10	10	2	2	3	3	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	117	311
Out	-	9	10	10	10	2	2	3	3	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	7	7	7	8	117	311

**Method of Implementation:** Contractor Forced Retrofit of Components:: Installation Name: IRS Redesign

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.140	- / -	- / -	10 / 0.140
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.357	- / -	- / -	25 / 0.357
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.378	- / -	26 / 0.378
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	406 / 6.002	406 / 6.002
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.140	25 / 0.357	26 / 0.378	493 / 7.267

**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	3	3	6	6	6	7	6	6	7	7	432	493
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	6	6	6	7	6	6	7	7	432	493

**Method of Implementation:** Contractor Field Mod Team:: Installation Name: IPS CDD/NIPCU

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	39 / 0.189	52 / 0.252	34 / 0.986	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	12 / 0.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.072

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0590 / V-22 (Tilt/Rotor Acft) Osprey **Modification Number / Title:** 2 / MV-22 Readiness (OSIP 028-12)

**Modification Item 1 of 1:** MV-22 Readiness (OSIP 028-12)

**Installation Information**

**Method of Implementation:** Contractor Field Mod Team:: Installation Name: IPS CDD/NIPCU

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	- / -	- / -	- / -	12 / 0.347	- / -	12 / 0.347	- / -	- / -	- / -	- / -	- / -	12 / 0.347
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.089	- / -	- / -	- / -	- / -	3 / 0.089
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	39 / 0.189	52 / 0.252	46 / 1.058	12 / 0.347	- / -	12 / 0.347	3 / 0.089	- / -	- / -	- / -	- / -	152 / 1.935

**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	39	13	13	13	13	11	11	12	12	3	3	4	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152
Out	39	13	13	13	13	11	11	12	12	3	3	4	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152

**Method of Implementation:** [none specified]:: Installation Name: PLCU Retrofit

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	- / -	240 / 0.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	240 / 0.450
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	240 / 0.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	240 / 0.450

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)

**Modification Item 1 of 1:** MV-22 Readiness (OSIP 028-12)

**Installation Information**

**Method of Implementation:** [none specified]:: Installation Name: PLCU Retrofit

**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	-	61	61	59	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240
Out	-	61	61	59	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Rudder Attachment Reliability Improvement

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	- / -	66 / 0.924	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	66 / 0.942	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	66 / 0.942
FY 2015	- / -	- / -	- / -	60 / 0.872	- / -	60 / 0.872	- / -	- / -	- / -	- / -	- / -	60 / 0.872
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.889	- / -	- / -	- / -	- / -	60 / 0.889
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.196	- / -	- / -	- / -	13 / 0.196
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	66 / 0.924	66 / 0.942	60 / 0.872	- / -	60 / 0.872	60 / 0.889	13 / 0.196	- / -	- / -	- / -	265 / 3.823

**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	-	16	16	17	17	16	16	17	17	15	15	15	15	15	15	15	15	6	7	-	-	-	-	-	-	-	-	-	-	-	-	265
Out	-	16	16	17	17	16	16	17	17	15	15	15	15	15	15	15	15	6	7	-	-	-	-	-	-	-	-	-	-	-	-	265

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Nose Landing Gear Door Mechanism

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	- / -	48 / 0.297	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.297

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)
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**Modification Item 1 of 1:** MV-22 Readiness (OSIP 028-12)

**Installation Information**

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Nose Landing Gear Door Mechanism

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	- / -	- / -	48 / 0.303	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.303
FY 2016	- / -	- / -	- / -	9 / 0.109	- / -	9 / 0.109	- / -	- / -	- / -	- / -	- / -	9 / 0.109
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	48 / 0.297	48 / 0.303	9 / 0.109	- / -	9 / 0.109	- / -	- / -	- / -	- / -	- / -	105 / 0.709

**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	-	12	12	12	12	12	12	12	12	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105
Out	-	12	12	12	12	12	12	12	12	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Drive Link/Prop Rotor Hub Spring Change

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	- / -	- / -	- / -	20 / 1.060	- / -	20 / 1.060	- / -	- / -	- / -	- / -	- / -	20 / 1.060
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.080	- / -	- / -	- / -	- / -	20 / 1.080
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.100	- / -	- / -	- / -	20 / 1.100
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.682	- / -	- / -	30 / 1.682
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.143	- / -	20 / 1.143
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.143	20 / 1.143
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 8.572	170 / 8.572
<b>Total</b>	- / -	- / -	- / -	20 / 1.060	- / -	20 / 1.060	20 / 1.080	20 / 1.100	30 / 1.682	20 / 1.143	190 / 9.715	300 / 15.780

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)

**Modification Item 1 of 1:** MV-22 Readiness (OSIP 028-12)

**Installation Information**

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Drive Link/Prop Rotor Hub Spring Change

**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	5	5	5	5	5	5	5	5	5	5	7	7	8	8	5	5	5	5	190	300
Out	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5	7	7	8	8	5	5	5	5	190	300	

**Method of Implementation:** Contractor Drive-In Modification:: Installation Name: Life Limited Airframe Corrections

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	- / -	- / -	6 / 1.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.080
FY 2016	- / -	- / -	- / -	16 / 2.935	- / -	16 / 2.935	- / -	- / -	- / -	- / -	- / -	16 / 2.935
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.486	- / -	- / -	- / -	- / -	24 / 4.486
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.571	- / -	- / -	- / -	24 / 4.571
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.658	- / -	- / -	24 / 4.658
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.746	- / -	24 / 4.746
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	91 / 17.996	91 / 17.996
Total	- / -	- / -	6 / 1.080	16 / 2.935	- / -	16 / 2.935	24 / 4.486	24 / 4.571	24 / 4.658	24 / 4.746	91 / 17.996	209 / 40.472

**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	-	-	8	8	-	-	12	12	-	-	12	12	-	-	12	12	-	-	12	12	91	209
Out	-	-	-	-	-	-	-	3	3	-	-	8	8	-	-	12	12	-	-	12	12	-	-	12	12	-	-	12	12	91	209

**Method of Implementation:** Contractor Field Modification:: Installation Name: AC Bus Tie Circuit Reliability Improvement

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)

**Modification Item 1 of 1:** MV-22 Readiness (OSIP 028-12)

**Installation Information**

**Method of Implementation:** Contractor Field Modification:: Installation Name: AC Bus Tie Circuit Reliability Improvement

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	- / -	- / -	- / -	96 / 0.690	- / -	96 / 0.690	- / -	- / -	- / -	- / -	- / -	96 / 0.690
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	135 / 1.170	- / -	- / -	- / -	- / -	135 / 1.170
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	96 / 0.690	- / -	96 / 0.690	135 / 1.170	- / -	- / -	- / -	- / -	231 / 1.860

**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	-	-	-	-	-	-	-	-	-	24	24	24	24	33	34	34	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	24	24	24	24	33	34	34	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Method of Implementation:** Contractor Standard Depot Level Maintenance:: Installation Name: V-22 PRGB Imp Input Quill Wavesprin

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	- / -	- / -	- / -	36 / 0.263	- / -	36 / 0.263	- / -	- / -	- / -	- / -	- / -	36 / 0.263
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.268	- / -	- / -	- / -	- / -	36 / 0.268
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.273	- / -	- / -	- / -	36 / 0.273
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.147	- / -	- / -	19 / 0.147
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	36 / 0.263	- / -	36 / 0.263	36 / 0.268	36 / 0.273	19 / 0.147	- / -	- / -	127 / 0.951



**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)

**Modification Item 1 of 1:** MV-22 Readiness (OSIP 028-12)

**Installation Information**

**Method of Implementation:** Contractor Standard Depot Level Maintenance:: Installation Name: V-22 PRGB Imp Input Quill Wavesprin

**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	-	-	-	-	-	-	-	-	-	9	9	9	9	9	9	9	9	9	9	9	9	5	5	5	4	-	-	-	-	-	127
Out	-	-	-	-	-	-	-	-	-	9	9	9	9	9	9	9	9	9	9	9	9	5	5	5	4	-	-	-	-	-	127

**Method of Implementation:** Contractor Drive In Mod:: Installation Name: EAPS/APX-123

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 / 0.310	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	75 / 1.452	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 1.452
FY 2015	- / -	- / -	73 / 1.240	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	73 / 1.240
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	28 / 0.310	75 / 1.452	73 / 1.240	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	176 / 3.002

**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	-	-	37	38	-	-	36	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176
Out	28	-	-	37	38	-	-	36	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176

**Method of Implementation:** Contractor Field Modification:: Installation Name: Stand by Flight Display

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)

**Modification Item 1 of 1:** MV-22 Readiness (OSIP 028-12)

**Installation Information**

**Method of Implementation:** Contractor Field Modification:: Installation Name: Stand by Flight Display

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.450	- / -	- / -	- / -	45 / 0.450
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.458	- / -	- / -	45 / 0.458
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.467	- / -	45 / 0.467
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.467	45 / 0.467
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.468	45 / 0.468
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.450	45 / 0.458	45 / 0.467	90 / 0.935	225 / 2.310

**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	11	11	12	11	11	11	12	11	11	11	12	90	225
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	11	12	11	11	11	12	11	11	11	12	90	225

**Method of Implementation:** Contractor Forced Retrofit of Components:: Installation Name: MCOI Retrofit

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	- / -	- / -	- / -	23 / 1.035	- / -	23 / 1.035	- / -	- / -	- / -	- / -	- / -	23 / 1.035
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	29 / 1.330	- / -	- / -	- / -	- / -	29 / 1.330
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.635	- / -	- / -	- / -	35 / 1.635
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.666	- / -	- / -	35 / 1.666
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.698	- / -	35 / 1.698
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.715	35 / 1.715
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 1.519	31 / 1.519
Total	- / -	- / -	- / -	23 / 1.035	- / -	23 / 1.035	29 / 1.330	35 / 1.635	35 / 1.666	35 / 1.698	66 / 3.234	223 / 10.598

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)

**Modification Item 1 of 1:** MV-22 Readiness (OSIP 028-12)

**Installation Information**

**Method of Implementation:** Contractor Forced Retrofit of Components:: Installation Name: MCOI Retrofit

**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	6	6	6	7	7	7	8	8	9	9	9	8	9	9	9	8	9	9	9	66	223
Out	-	-	-	-	-	-	-	-	-	5	6	6	6	7	7	7	8	8	9	9	9	8	9	9	9	8	9	9	9	66	223

**Method of Implementation:** [none specified]:: Installation Name: Aft Sponson Fuel Tank (OCO)

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	- / -	- / -	- / -	- / -	24 / 0.096	24 / 0.096	- / -	- / -	- / -	- / -	- / -	24 / 0.096
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	24 / 0.096	24 / 0.096	- / -	- / -	- / -	- / -	- / -	24 / 0.096

**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	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
Out	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24

<b>Method of Implementation (Organic):</b> Organic - APU Impeller Durability	<b>Installation Quantity:</b> 24
<b>Method of Implementation (Organic):</b> Organic - IPS (CDD/NIPCU) Organic	<b>Installation Quantity:</b> 18
<b>Method of Implementation (Organic):</b> Organic - SDC Impeller	<b>Installation Quantity:</b> 408

**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> 0590 / V-22 (Tilt/Rotor Acft) Osprey	<b>Modification Number / Title:</b> 2 / MV-22 Readiness (OSIP 028-12)
<i>Modification Item 1 of 1:</i> MV-22 Readiness (OSIP 028-12)		
<b>Installation Information</b>		
<b>Method of Implementation (Organic):</b> Organic - Nacelle Heat Exchanger		<b>Installation Quantity:</b> 272
<b>Method of Implementation (Organic):</b> Organic - Formsprag Clutch		<b>Installation Quantity:</b> 367
<b>Method of Implementation (Organic):</b> Organic - Engine Durability Concepts		<b>Installation Quantity:</b> 450
<b>Method of Implementation (Organic):</b> Organic - Bellows Tailpipe		<b>Installation Quantity:</b> 363
<b>Method of Implementation (Organic):</b> Organic - Landing Gear Control Unit		<b>Installation Quantity:</b> 334
<b>Method of Implementation (Organic):</b> Organic - PRGB Atmospheric Protection and Mast Seal Improvement		<b>Installation Quantity:</b> 232
<b>Method of Implementation (Organic):</b> Organic - Prop Rotor Coating Improvement		<b>Installation Quantity:</b> 2082
<b>Method of Implementation (Organic):</b> Organic - O2 Guage		<b>Installation Quantity:</b> 75
<b>Method of Implementation (Organic):</b> Organic - Threaded Bushing Improvements		<b>Installation Quantity:</b> 576
<b>Method of Implementation (Organic):</b> Organic - CFG TAGB Adapter Flange		<b>Installation Quantity:</b> 199
<b>Method of Implementation (Organic):</b> Organic - EAPS Start Valve Block A/B/C/10 Organic		<b>Installation Quantity:</b> 192
<b>Method of Implementation (Organic):</b> Organic - VFG GCU Redesign		<b>Installation Quantity:</b> 283
<b>Method of Implementation (Organic):</b> Organic - VSLED Vibration Transducers and Pads		<b>Installation Quantity:</b> 224
<b>Method of Implementation (Organic):</b> Not Installed - Archived ECPs		<b>Installation Quantity:</b> 700
<b>Footnotes:</b>		
<sup>(5)</sup> Gimbal Assembly is a 2 part ECP. It has now been broken out into Part 1 and Part 2 in the budget exhibit.		