

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Navy **Date:** February 2016

<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> 0592 / F-35 STOVL Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0604800M, 0604810M	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 198	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	111.158	215.819	204.464	34.928	-	34.928	158.277	89.352	64.963	79.077	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	111.158	215.819	204.464	34.928	-	34.928	158.277	89.352	64.963	79.077	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>111.158</b>	<b>215.819</b>	<b>204.464</b>	<b>34.928</b>	<b>-</b>	<b>34.928</b>	<b>158.277</b>	<b>89.352</b>	<b>64.963</b>	<b>79.077</b>	<b>Continuing</b>	<b>Continuing</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:**

The FY 2017 funding request was reduced by \$131.261M to account for the availability of prior year execution balances.

The F-35B Program will develop and deploy a family of highly common, affordable, next generation, stealthy, multi-role strike fighters that meet the needs of multiple services and countries. The United States Marine Corps Short Take Off and Vertical Landing (STOVL) correction of deficiencies effort 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 and depot 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 concurrency changes to sustain and improve F-35B system operations. Concurrency changes are implemented to coincide with resources and aircraft availability. Block upgrades provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the F-35B platform. This modification program will bring early production aircraft and integrated systems to a common fleet configuration as fielded capabilities evolve over the course of the F-35 program.

The modification funding requested in the 2017 President's Budget enables several distinct efforts pertaining to the Marine F-35B aircraft to include post aircraft delivery concurrency retrofits, to correct deficiencies, the block upgrade of hardware and software to a Block 3i configuration, and the block upgrade of software components to a full Block 3F configuration.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES**

The overlap of development with production and operations results in the need to manage a concurrency program and conduct retrofits on jets with life-limited parts or impacts to capabilities. For the F-35 program, the emergence of new concurrency issues is expected to phase out with the completion of System Development & Demonstration (SDD) in the FY18 timeframe. Block 3i Fleet Release occurred 4th Qtr FY15. Block 3F Fleet Release is planned by 3rd Qtr FY17 and Block 4 Developmental Test & Evaluation (DT&E), (funded through the Follow On Development Project Unit). Fleet Release is planned by 2nd Qtr 2022.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Navy **Date:** February 2016

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

**P-1 Line Item Number / Title:**  
0592 / F-35 STOVL Series

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0604800M, 0604810M **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** 198 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-3a	1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14) (Capability Improvement)			- / 38.123	- / 72.187	- / 56.102	- / -	- / -	- / -
P-3a	2 / F-35 STOVL CONCURRENCY (OSIP 023-14) (Capability Improvement)			- / 73.035	- / 143.632	- / 143.332	- / 34.922	- / -	- / 34.922
P-3a	3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16) (Capability Improvement)			- / 0.000	- / -	- / 5.030	- / 0.006	- / -	- / 0.006
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 111.158</b>	<b>- / 215.819</b>	<b>- / 204.464</b>	<b>- / 34.928</b>	<b>- / -</b>	<b>- / 34.928</b>

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	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)
P-3a	1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14) (Capability Improvement)			- / 1.176	- / 3.197	- / 2.588	- / -	- / -	- / 173.373
P-3a	2 / F-35 STOVL CONCURRENCY (OSIP 023-14) (Capability Improvement)			- / 156.637	- / 40.473	- / 10.449	- / 11.107	Continuing	Continuing
P-3a	3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16) (Capability Improvement)			- / 0.464	- / 5.396	- / 0.660	- / -	- / -	- / 11.556
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 158.277</b>	<b>- / 89.352</b>	<b>- / 64.963</b>	<b>- / 79.077</b>	<b>Continuing</b>	<b>Continuing</b>

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

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

**Justification:**  
Basis for FY 2017 budget request: FY17 F-35B Total Active Inventory is 54 aircraft. FY 2017 funding is requested for kits to retrofit LRIP 2-5 JSF F-35B to the Block 3i configuration, kits to retrofit 6 LRIP 2-5 JSF F-35B to Block 3F configuration and for the highest priority concurrency modifications to support the USMC Iwakuni deployment.

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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Navy							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1				<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series				<b>Modification Number / Title:</b> 1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)				

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	38.123	72.187	56.102	-	-	-	1.176	3.197	2.588	-	-	173.373
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	38.123	72.187	56.102	-	-	-	1.176	3.197	2.588	-	-	173.373
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>38.123</b>	<b>72.187</b>	<b>56.102</b>	-	-	-	<b>1.176</b>	<b>3.197</b>	<b>2.588</b>	-	-	<b>173.373</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:**

The block upgrade program retrofits United States Marine Corps F-35B aircraft and integrated systems procured under the Low Rate Initial Production (LRIP) contracts to a final Block 3F configuration. The retrofits to enable the final Block 3F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

This effort (OSIP 015-14) focuses on upgrading Blocks 1B, 2A, and 2B aircraft from LRIPs 2-5 to a Block 3i configuration. Block 3i is a stepping stone to the Block 3F configuration. It includes the procurement of Tech Refresh 2 (TR2) hardware for the Block 3i configuration. The parts include new radar modules, new Integrated Core Processor (ICP) modules and rack, and new Electronic Warfare (EW) modules. The Gen III Helmet will also be introduced as part of the Block 3i upgrade. This effort includes tooling and test equipment for Military Service Depots to support the execution of the Block Upgrade program.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES**

Block 3i Software Fleet Release occurred 4th Qtr FY15.

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<b>Exhibit P-3a, Individual Modification: PB 2017 Navy</b>										<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1				<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series						<b>Modification Number / Title:</b> 1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)			
<b>Models of Systems Affected:</b> F-35 STOVL				<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0604800M					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>													
<i>Modification Item 1 of 1: F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)</i>													
B Kits													
Recurring													
1.1.1) EQUIPMENT Block 3i - NonOrganic <sup>(1)</sup>	6 / 24.214	14 / 57.572	11 / 45.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 127.660	
<i>Subtotal: Recurring</i>	- / 24.214	- / 57.572	- / 45.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 127.660	
<i>Subtotal: F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)</i>	6 / 24.214	14 / 57.572	11 / 45.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 127.660	
<i>Subtotal: Procurement, All Modification Items</i>	- / 24.214	- / 57.572	- / 45.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 127.660	
<b>Support (All Modification Items)</b>													
2.1) ILS	- / 9.360	- / 1.986	- / 2.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.392	
2.2) Other Support	- / -	- / 7.944	- / 8.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.126	
2.3) Training Equipment	- / 4.549	- / 4.685	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.234	
<i>Subtotal: Support</i>	- / 13.909	- / 14.615	- / 10.228	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 38.752	
<b>Installation</b>													
<i>Modification Item 1 of 1: F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.176	- / 3.197	- / 2.588	- / -	- / -	- / 6.961	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.176	- / 3.197	- / 2.588	- / -	- / -	- / 6.961	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>38.123</b>	<b>72.187</b>	<b>56.102</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.176</b>	<b>3.197</b>	<b>2.588</b>	<b>-</b>	<b>-</b>	<b>173.373</b>	

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<b>Exhibit P-3a, Individual Modification: PB 2017 Navy</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series	<b>Modification Number / Title:</b> 1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)

**Modification Item 1 of 1:** F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)

<b>Manufacturer Information</b>							
Manufacturer Name: Lockheed Martin <sup>(2)</sup>				Manufacturer Location: Fort Worth, TX			
Administrative Leadtime (in Months): 11				Production Leadtime (in Months): 39			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Aug 2015	Aug 2016	Aug 2017				
Delivery Dates	Nov 2018	Nov 2019	Nov 2020				

**Installation Information**

**Method of Implementation:** Depot Field Team:: Installation Name: Block 3i

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.176	- / -	- / -	- / -	- / 0.000	6 / 1.176
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 3.197	- / -	- / -	- / -	14 / 3.197
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 2.588	- / -	- / -	11 / 2.588
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.176	14 / 3.197	11 / 2.588	- / -	- / -	31 / 6.961

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	2	3	4	3	4	3	3	3	2	-	-	-	-	-	31
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	2	3	4	3	4	3	3	3	2	-	-	-	-	-	31

**Footnotes:**  
<sup>(1)</sup> Prior Years (FY14) contract award date is Aug 2015, with deliveries beginning in Nov 2017. Programmatic slips in the contract award of Block 2B of eighteen (18) months, along with a slip in the development of Block 3i Hardware led to a delay in execution of FY14 funding. Block 3i Hardware kits were developed utilizing SDD funds and were broken into the production line beginning with the production of LRIP 6, FY12 funded, jets. The funding associated with these Block 3i kits is inclusive of Block 3i hardware and software.  
<sup>(2)</sup> Depot Field Team Install.

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<b>Exhibit P-3a, Individual Modification: PB 2017 Navy</b>							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1				<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series			<b>Modification Number / Title:</b> 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)				

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	73.035	143.632	143.332	34.922	-	34.922	156.637	40.473	10.449	11.107	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	73.035	143.632	143.332	34.922	-	34.922	156.637	40.473	10.449	11.107	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>73.035</b>	<b>143.632</b>	<b>143.332</b>	<b>34.922</b>	<b>-</b>	<b>34.922</b>	<b>156.637</b>	<b>40.473</b>	<b>10.449</b>	<b>11.107</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This effort (OSIP 023-14) funds retrofits due to concurrency changes to correct deficiencies discovered after DD-250 of the last aircraft in a given Low Rate Initial Production (LRIP) lot. This includes modifications required to extend aircraft service life currently limited by low-life parts, and relieve capability limitations driven by concurrency of production with development.

The concurrency funding line will procure the highest priority modifications from the Tri-Service Modification Prioritization List, as they become supportable from an engineering, production, and installation standpoint. The list is vetted by the Services and Partners every 6 months to ensure the list accurately reflects existing requirements as well as emerging issues. Per-kit costs will vary for each modification being implemented, and in some cases will also vary for aircraft from different LRIP lots to implement an individual modification. For FY17, the highest priority modifications will directly support the USMC Iwakuni deployment.

Total cost reflects procurement and installation costs in each fiscal year. Support costs include overall modification program planning, scheduling, and management; and support of Military and Service Depots and Depot Field Teams for incorporation of modifications.

The following modifications will be the highest priorities for accomplishment throughout the STOVL fleet using funds from this OSIP. Listed modifications are requirements for Initial Operational Capability (IOC) and priority modifications for long-term retrofit needs following IOC. FY17 concurrency funds will also be used to implement IOC modifications across the rest of the USMC F-35B fleet.

TI Number	CR Title
TI-0000-0027	IPP Exhaust (STOVL)
TI-0000-0031	Nose Wheel Steering (NWS) Motor Qualification Failure
TI-0000-0045	CTOL/STOVL MLG SDD & LRIP Part Number Rolls
TI-0000-0055	IPP Bay Vent Fan Electrical Bond
TI-0000-0056	IPP Controller Part Number Roll
TI-0000-0057	STOVL GO3 Control Valve Part Number Roll
TI-0000-0058	Back-Up Radio Tray Clearance
TI-0000-0064	Counter Measures Door Control Valve Life Limitation on AF:6
TI-0000-0101	Lift Fan Inlet Door Full Qualification Part Number Roll
TI-0000-0121	Lift Fan Exhaust / Inboard Weapon Bay Door Interference
TI-0000-0124	Controller, Motor Pump Qual Failure
TI-0000-0133	Filter Module, Pressure Qual Failure

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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series	<b>Modification Number / Title:</b> 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
<p>TI-0000-0135 Engine Driven Pump Life Limit</p> <p>TI-0000-0137 Pump, Motor GND Maint Qual Failure</p> <p>TI-0000-0138 Wingtip Light Improvement For FAA Compliance</p> <p>TI-0000-0147 PTMS PAO Three-Port Valve Part Number Roll</p> <p>TI-0000-0158 WBDD Flexible Cable Re-design</p> <p>TI-0000-0161 EDU #1 &amp; #2 Signal Deletion</p> <p>TI-0000-0165 R3 Float Valve with Mechanical Thread Locking</p> <p>TI-0000-0191 270V BCCU</p> <p>TI-0000-0192 Gen II -10 Helmet Mounted Display Variance</p> <p>TI-0000-0193 EW Gain State Control Logic Error</p> <p>TI-0000-0231 PTMS EHA Cooling Orifices - CTOL &amp; STOVL</p> <p>TI-0000-0236 FPS Fire and Bleed Leak Controller (FBLC) Redesign</p> <p>TI-0000-0245 Update to Antenna Switch Unit for Cosite Function and Qualification Test Failures</p> <p>TI-0000-0260 Canopy Actuation System</p> <p>TI-0000-0263 Power Panel 1, 2, 3</p> <p>TI-0000-0264 PTMS Controller Humidity, Temp, and Durability Qualification Test Failures</p> <p>TI-0000-0282 Update to Audio Control Electronics (ACE) Unit for Qualification Test Failures</p> <p>TI-0000-0286 Backup Radio (BuR) Indirect Lightning Qualification Test Failure</p> <p>TI-0000-0321 Lift Fan Exhaust Door Aft Uplock Hook Failure</p> <p>TI-0000-0327 STOVL High Sea State Fuel Stowage</p> <p>TI-0000-0329 Refueling Bay and Nozzle Clash LRIP 1-3 Modification</p> <p>TI-0000-0331 WBDDS RGAs Limited Life - Change Request Approval</p> <p>TI-0000-0336 Panoramic Cockpit Display (PCD) - DU</p> <p>TI-0000-0339 HMDS LRIP Subsystem Variance - UUT Outages</p> <p>TI-0000-0343 Panoramic Cockpit Display (PCD) Major Variances - EU</p> <p>TI-0000-0344 HMDS LRIP Subsystem Variance - Fixed Camera</p> <p>TI-0000-0361 Vertical Tail 575 Fitting</p> <p>TI-0000-0363 TRS Component Changes from Qual Test Failures</p> <p>TI-0000-0367 Engine Trailer Adapter Kit - FS556 Interface, J27006/J27007</p> <p>TI-0000-0373 Aux Air Inlet Lock Actuation Mechanism "Mixer Box" Qual Test Failure</p> <p>TI-0000-0375 STOVL IRCM Doors Bushing to Lug Interference</p> <p>TI-0000-0377 Aux Air Inlet Door Redesign</p> <p>TI-0000-0387 Fuel System - Dive Rate Performance</p> <p>TI-0000-0395 LEF Inbd Blade Seal Mousehole and CTOL LEF Lwr Inbd Blade Seal Failures</p> <p>TI-0000-0396 WBDD Limit Life, ECU</p> <p>TI-0000-0405 "EDU Random Vibration Failures Electrical Distribution Unit Full Qualification"</p> <p>TI-0000-0412 Wing Lighting Controller - Salt Fog Failure</p> <p>TI-0000-0423 Engine Interchangeability Bleed Air System Ducting Design</p> <p>TI-0000-0424 Firewall Shutoff Valve Part Number Roll</p> <p>TI-0000-0448 Add -0007 ASSCA/-0006 ATQA To Aircraft TVE</p> <p>TI-0000-0469 Life Support System (OBOGS, Steel BOS, SIC, SPA, PIC and Composite BOS)</p> <p>TI-0000-0477 CTOL EHAS Panels - Incorrect Fastener Grips and De-torque Issu</p> <p>TI-0000-0480 ICC Qual Issues</p> <p>TI-0000-0486 Short Life - STOVL Inner Wing FS518 Lower Bulkhead</p>		

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<b>Exhibit P-3a, Individual Modification: PB 2017 Navy</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series	<b>Modification Number / Title:</b> 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-0495 OBIGGS & Pressure/Vent Changes for Lightning Protection TI-0000-0516 AAR Probe Weak Link Adaptor Re-design TI-0000-0538 EHA Flaperon Support Equipment Locations TI-0000-0543 STOVL Limited Life Outboard Rib at Station 2 and 10 TI-0000-0544 Limited Life STOVL Mid Fairing Longeron TI-0000-0545 Limited Life STOVL Nacelle Vent Inlet TI-0000-0556 STOVL Short Life Parts: Aft Mid Keel TI-0000-0558 STOVL Short Life Parts: Keel Beam RH TI-0000-0559 STOVL Short Life Parts: NLG Drag Brace Ftg TI-0000-0561 STOVL FS 496 Bulkhead Trunnion TI-0000-0564 STOVL Forward Root Rib (L6/U6) TI-0000-0566 STOVL Short Life Parts: Support, Otbd, FS 502.65 LH/RH TI-0000-0574 Electronics Units Modifications for EMI, Lightning and Qualification Compliance TI-0000-0575 ULF & 3BSD Emergency Control Valve TI-0000-0576 Refuel Probe/Tailhook Emergency Control Valve TI-0000-0578 Aux Inlet Door Emergency Control Valve TI-0000-0583 CTOL STOVL Rudder EHA Design Change TI-0000-0602 Brake Control Unit (BCU) Wet Runway Update & Operation of a Wet Runway TI-0000-0617 Limited Life STOVL STA 3/9 Aft Rib TI-0000-0626 SMSFRIU SDD/LRIP Arm Disable Input TI-0000-0631 Countermeasures Doors & NNMSB/WSESRB Concerns TI-0000-0638 Short Life - STOVL BL 0.0 Web Fwd Upper Engine Mount Support TI-0000-0654 IDMS Connector Ref Des Swap TI-0000-0655 EO DAS Center Fuselage Vibration Testing TI-0000-0673 Ordnance Quick Latch System (OQLS) - Clip Lock TI-0000-0703 Roll Post Door Actuator Life Limitation TI-0000-0707 Air Data System Design Changes For -0004 Configuration TI-0000-0709 HT EHA Block Change TI-0000-0723 EOTS PBS Startup Timeline TI-0000-0738 Modified Fuel Dump Valve (T28a) TI-0000-0771 Install Battery into CNI Rack 3A and 3B TI-0000-0772 PTMS Turbomachine/ACCM Cable Interface Changes TI-0000-0781 3BSM NBD - Assembly Changes TI-0000-0808 Weapons Bay Door Uplock Sealing TI-0000-0854 DMCH MPEG VHDL Firmware Version TI-0000-0866 Production Ejection Seat (-0023) TI-0000-0884 AESG - Material & Workmanship TI-0000-0895 Arm Disable Current Leakage Path Correction TI-0000-0897 Roll Control Nozzle Door Redesign TI-0000-0898 Electronic Warfare Band 3/4 Antenna and Edge Performance Issues TI-0000-0904 Backup Radio Guide Pin Misalignment TI-0000-0906 NLG Lug Inspection and Support Stiffener TI-0000-0908 STOVL Fuel Dump (CCDD LRIP2-051) TI-0000-0910 PCD EU Cooling Rework		



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<b>Exhibit P-3a, Individual Modification: PB 2017 Navy</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series	<b>Modification Number / Title:</b> 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-0913	LEFAS PDU Resolver and Rotor Shaft Seal Life	
TI-0000-0945	CTOL Audio Control Electronics (ACE) In-Flight Refueling	
TI-0000-0976	RCS ATP	
TI-0000-0992	Outboard Vertical Tail Seal Redesign	
TI-0000-1000	Inboard Weapon Bay Door Flipper Door Design Change	
TI-0000-1011	L-Band Pre-Selector (LBPS) Propagation Delay Calibration for Mode 5	
TI-0000-1023	Roll Nozzle and Duct Bay - BALD Sensors redesign	
TI-0000-1048	Panoramic Cockpit Display-Electronic Unit (PCD-EU)	
TI-0000-1053	Fire Suppression Bottle Low Clearance	
TI-0000-1056	RADAR 1A & 1B Racks -0002 Cut-in	
TI-0000-1060	Final Finishes	
TI-0000-1078	Nacelle Insulation	
TI-0000-1082	Power Panel 1 & 2 Random Vibration Failures - Second Failure	
TI-0000-1089	LRIP 3 Aux Air Inlet (AAI) Door Install	
TI-0000-1092	Landing Taxi Light Redesign	
TI-0000-1097	Ball Joint Salt Fog Failure	
TI-0000-1099	ATQA Mounting Bolt Interface	
TI-0000-1101	GMMP Controller EEE outage	
TI-0000-1102	BH-1 Weapons Bay Doors - AMRAAM Cradle Found Fatigue Cracks in Cradle Lugs @ 11,353 Hours	
TI-0000-1113	AESG Power Connector Rating (Generator)	
TI-0000-1161	STOVL Aft MLG Door Cracking	
TI-0000-1198	HT Heating	
TI-0000-1203	Life Limited 402 Frame, RHS Fuel Floor and fasteners at the wing-to-body glove fairing	
TI-0000-1255	Fibre Channel Switch Design Issues-0004	
TI-0000-1324	Structural Cracking of Aft MLG Door Drive Link U-Joint	
TI-0000-1372	EW Block-2 DRFM Module Firmware Issue	
TI-0000-1408	CCDD LRIP4/LRIP 5-016 EW: AEL, Aft Sector	
TI-0000-1421	STOVL MLG	
TI-0000-1422	STOVL Nose Landing Gear	
TI-0000-1440	STOVL Thrust Mount Shear Webs Do Not Meet Service Life Requirement	
TI-0000-1455	Roll Control Nozzle Panel Install, RH	
TI-0000-1480	Lift System FADEC Redesign PN Change	
TI-0000-1483	Power Panel 3 Random Vibration Failures - Second Failure	
TI-0000-1486	STOVL FS 503 Frame / IPP Shear Web Durability Test Failure	
TI-0000-1494	PTMS Turbomachine Configuration to Correct Qualification Failures	
TI-0000-1499	FS 472 Bulkhead Crack BH-1	
TI-0000-1515	ESG Service Life (Generator) -0003	
TI-0000-1518	Incorrect PAO Orifice In P5 Gp A Dummy LRU; Incorrect PAO Cooling Orifices In Center Fuselage Cold Liquid Loop	
TI-0000-1549	Firmware Update for AMS Cartridge Reset SPAR	
TI-0000-1551	28V Battery Full Qualification	
TI-0000-1552	28V BCCU Lightning Compliance - 28V Battery Charger	
TI-0000-1589	Hydraulic System Single Point Failure	
TI-0000-1650	MWARS for Production Seat (LRIP 1-6)	
TI-0000-1652	Rudder Slider Hinge Wear	

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<b>Exhibit P-3a, Individual Modification: PB 2017 Navy</b>		<b>Date: February 2016</b>
<b>Appropriation / Budget Activity / Budget Sub Activity:</b>	<b>P-1 Line Item Number / Title:</b>	<b>Modification Number / Title:</b>
1506N / 05 / 1	0592 / F-35 STOVL Series	2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-1653	Ground Maintenance Valve Deletion to Prevent PAO in Cockpit (DR 1-4815699)	
TI-0000-1655	STOVL Right Hand (RH) and Left Hand (LH) Rear Spar Lower Flange Fatigue Cracks	
TI-0000-1706	Insertion of updated DMCH into LRIP 6 with Night Vision Camera Image Quality Improvements	
TI-0000-1761	HT EHA Solenoid Valve (SOV) Qual Test Failure	
TI-0000-1783	Canopy Boot Cracking	
TI-0000-2450	Bleed Air Sensor Fitting Galling	
TI-0000-2528	270V Battery Gunfire Vibration Failure	
TI-0000-2546	Weapon bay light departing aircraft during flight	
TI-0000-2551	L-Band Power Amplifier (LBPA) Update for LINK-16	
TI-0000-2580	AESG -0004 Qual Failure	
TI-0000-2624	Lower Horizontal Tail Bullnose Panels Experiencing Coating Damage (panels 4134/4133)	
TI-0000-2633	Flaperon Blade Seal Buckling	
TI-0000-2641	STOVL - Short Shank Condition, Engine Access Panel	
TI-0000-2659	Cockpit Green Indicator Bright/Dim Anomaly	
TI-0000-2670	Durability Findings 2013 - Bulkhead FS 496	
TI-0000-2672	Radome Shroud Gapping / Trimming	
TI-0000-2682	Incongruous illumination characteristics of AR probe light while centerline tanking on KC-10/KC-135	
TI-0000-2690	LAU-147 and BRU Vent Valve Under Full Pressure	
TI-0000-2699	Fibre Channel Switch Design Issues -0005	
TI-0000-2714	0025 Ejection Seat Qual Issues	
TI-0000-2725	Vehicle Management Computer (VMC) Electrical Connection Issue on CTOL and STOVL aircraft	
TI-0000-2784	CNI 3A & 3B Integrated Backplane Assembly (IBA) EMI Upgrades	
TI-0000-2800	CNI TFR Module Humidity Qualification Test Failure	
TI-0000-2813	Durability Findings - FS 450, 472, 556, 518 Lower and IRCM Fitting	
TI-0000-2814	Durability Findings 2013 FS 575 Center Arch Frame	
TI-0000-2818	EOTS LoS Pointing Angle	
TI-0000-2834	Boarding Ladder Cracks	
TI-0000-2891	OBIGGS Wash Pressure Buildup in Refuel Manifold	
TI-0000-2892	BF5 IRCM Hinge to Drive Link Clash	
TI-0000-2909	IPP Bay High Flow Air Duct Separation	
TI-0000-2954	STOVL NLG EEE Failure	
TI-0000-3005	Flaperon Blade Seal Trailing Edge Gapping	
TI-0000-3057	F-35B HT EHA Solenoid Valve (SOV) Qual Test Failure	
TI-0000-3097	PAO filter bracket failure on STOVL	
TI-0000-3109	AAID Qual Test Spring Failure (Center Fuselage)	
TI-0000-3194	Landing Aid Down Converter (LADC) Qualification Test Failure	
TI-0000-3207	F-35B Centre Arch Frame, FS594, Durability Life	
TI-0000-3285	Egress System Safe Escape Intro for -6 Seat	
TI-0000-3286	IPP Fan Controller Failure	
TI-0000-3386	MLG Door Crank Arm Corrosion F35-A/B	
TI-7777-0007	OBOGS Plenum HEPA Filter Provisioning	
TI-7777-0010	Radar Harness Redesign	
TI-7777-0031	Brake Control Electronic Unit Update	
TI-7777-0042	Return Fuel Cooler HX Coating	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series	<b>Modification Number / Title:</b> 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-7777-0057 Nacelle Fan - Full Qualified Configuration TI-7777-0083 CTOL/STOVL EHAS/LEFAS -0011 EU & Rack Config Update TI-7777-0085 Replacement of Door Actuator Lock Assemblies (STOVL/CTOL Door Locks) TI-7777-0093 Flow Sensor EMI/Vibration TI-7777-0097 IEU Lightning Compliance TI-7777-0106 WBD Fwd Uplock Roller Bracket TI-7777-1001 LRIP 1&2 Block 1 Upgrade TI-7777-1003 Block 1.0-v01.702 Formal Systems Build TI-9999-0191 Interim Solution - 270V BCCU TI-9999-1422 Interim Solution - STOVL Nose Landing Gear TI-9999-1650 MWARS for Production Seat - LRIP 5 Only		
<b>DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES</b> For the F-35 program, the emergence of new concurrency issues is expected to phase out with the completion of SDD in the FY18 timeframe.		
Empty space for development status/milestones		

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<b>Exhibit P-3a, Individual Modification: PB 2017 Navy</b>										<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1					<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series					<b>Modification Number / Title:</b> 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)			
<b>Models of Systems Affected:</b> F-35 STOVL				<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0604800M					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>													
<i>Modification Item 1 of 1: F-35 STOVL CONCURRENCY (OSIP 023-14)</i>													
A Kits													
Recurring													
1.1.1) Structures - Organic	- / -	- / 68.943	- / 72.070	- / 11.175	- / -	- / 11.175	- / 55.707	- / 13.761	- / 4.564	- / 4.401	Continuing	Continuing	
1.1.2) Concurrency - Organic	- / 37.302	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.302	
1.1.3) Mission Systems - Organic	- / -	- / 12.927	- / 16.819	- / 2.794	- / -	- / 2.794	- / 14.097	- / 4.047	- / 1.020	- / 1.371	Continuing	Continuing	
1.1.4) Vehicle Systems - Organic	- / -	- / 10.054	- / 29.519	- / 7.334	- / -	- / 7.334	- / 39.161	- / 8.095	- / 0.765	- / 1.097	Continuing	Continuing	
1.1.5) Propulsion - Organic	- / 35.733	- / 43.090	- / 19.321	- / 10.127	- / -	- / 10.127	- / 39.158	- / 8.904	- / 1.315	- / 1.565	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 73.035	- / 135.014	- / 137.729	- / 31.430	- / -	- / 31.430	- / 148.123	- / 34.807	- / 7.664	- / 8.434	Continuing	Continuing	
<i>Subtotal: F-35 STOVL CONCURRENCY (OSIP 023-14)</i>	- / 73.035	- / 135.014	- / 137.729	- / 31.430	- / -	- / 31.430	- / 148.123	- / 34.807	- / 7.664	- / 8.434	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	- / 73.035	- / 135.014	- / 137.729	- / 31.430	- / -	- / 31.430	- / 148.123	- / 34.807	- / 7.664	- / 8.434	Continuing	Continuing	
<b>Support (All Modification Items)</b>													
2.1) ILS	- / -	- / 5.386	- / 3.188	- / 2.095	- / -	- / 2.095	- / 4.932	- / 3.238	- / 1.893	- / 1.371	Continuing	Continuing	
2.2) Other Support	- / -	- / 3.232	- / 2.415	- / 1.397	- / -	- / 1.397	- / 3.582	- / 2.428	- / 0.892	- / 1.302	Continuing	Continuing	
<i>Subtotal: Support</i>	- / 0.000	- / 8.618	- / 5.603	- / 3.492	- / -	- / 3.492	- / 8.514	- / 5.666	- / 2.785	- / 2.673	Continuing	Continuing	
<b>Installation</b>													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>73.035</b>	<b>143.632</b>	<b>143.332</b>	<b>34.922</b>	<b>-</b>	<b>34.922</b>	<b>156.637</b>	<b>40.473</b>	<b>10.449</b>	<b>11.107</b>	<b>Continuing</b>	<b>Continuing</b>	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series	<b>Modification Number / Title:</b> 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)

**Modification Item 1 of 1:** F-35 STOVL CONCURRENCY (OSIP 023-14)

**Manufacturer Information**

Manufacturer Name: Various <sup>(3)</sup>	Manufacturer Location: Various
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

**Footnotes:**  
<sup>(3)</sup> Quantities and installation dates will vary with each concurrency modification.

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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Navy							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1				<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series				<b>Modification Number / Title:</b> 3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)				

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	5.030	0.006	-	0.006	0.464	5.396	0.660	-	-	11.556
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	-	5.030	0.006	-	0.006	0.464	5.396	0.660	-	-	11.556
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>-</b>	<b>5.030</b>	<b>0.006</b>	<b>-</b>	<b>0.006</b>	<b>0.464</b>	<b>5.396</b>	<b>0.660</b>	<b>-</b>	<b>-</b>	<b>11.556</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:**

The block upgrade program retrofits United States Marine Corps F-35B aircraft and integrated systems procured under the Low Rate Initial Production (LRIP) contracts to a final Block 3F configuration. The retrofits to enable the final Block 3F configuration are comprised of hardware and software. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

This effort (OSIP 005-16) focuses on the Block 3F configuration upgrade effort for 32 LRIP 2-5 and 18 LRIP 6-8 F-35B aircraft and integrated systems. All of the LRIP 2-5 F-35B aircraft receiving the Block 3F software under this OSIP will have already received the Block 3i hardware under OSIP 015-14. This effort purchases all necessary software and installation labor to ensure LRIP 2-8 F-35B aircraft are upgraded to a Block 3F baseline for full warfighting capability.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES**

Block 3F Fleet Release occurred 3rd Qtr FY17.

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<b>Exhibit P-3a, Individual Modification: PB 2017 Navy</b>										<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1				<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series						<b>Modification Number / Title:</b> 3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)			
<b>Models of Systems Affected:</b> F-35 STOVL				<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0604800M					
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<b>Procurement</b>													
<i>Modification Item 1 of 1: F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)</i>													
B Kits													
Recurring													
1.1.1) Block 3F LRIP 2-5 - NonOrganic	- / -	- / -	4 / 0.004	6 / 0.006	- / -	6 / 0.006	14 / 0.014	11 / 0.011	1 / 0.001	- / -	- / -	36 / 0.036	
1.1.2) Block 3F LRIP 6-8 - Organic <sup>(4)</sup>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.009	9 / 0.009	- / -	- / -	18 / 0.018	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.004</i>	<i>- / 0.006</i>	<i>- / -</i>	<i>- / 0.006</i>	<i>- / 0.014</i>	<i>- / 0.020</i>	<i>- / 0.010</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.054</i>	
<i>Subtotal: F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)</i>	<i>- / -</i>	<i>- / -</i>	<i>4 / 0.004</i>	<i>6 / 0.006</i>	<i>- / -</i>	<i>6 / 0.006</i>	<i>14 / 0.014</i>	<i>20 / 0.020</i>	<i>10 / 0.010</i>	<i>- / -</i>	<i>- / -</i>	<i>54 / 0.054</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.004</i>	<i>- / 0.006</i>	<i>- / -</i>	<i>- / 0.006</i>	<i>- / 0.014</i>	<i>- / 0.020</i>	<i>- / 0.010</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.054</i>	
<b>Support (All Modification Items)</b>													
2.1) Training Equipment	- / -	- / -	- / 4.826	- / -	- / -	- / -	- / -	- / 4.826	- / -	- / -	- / -	- / 9.652	
<i>Subtotal: Support</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 4.826</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 4.826</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 9.652</i>	
<b>Installation</b>													
<i>Modification Item 1 of 1: F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.200</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.450</i>	<i>- / 0.550</i>	<i>- / 0.650</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.850</i>	
<i>Subtotal: Installation</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.200</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.450</i>	<i>- / 0.550</i>	<i>- / 0.650</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.850</i>	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>-</b>	<b>5.030</b>	<b>0.006</b>	<b>-</b>	<b>0.006</b>	<b>0.464</b>	<b>5.396</b>	<b>0.660</b>	<b>-</b>	<b>-</b>	<b>11.556</b>	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 05 / 1	<b>P-1 Line Item Number / Title:</b> 0592 / F-35 STOVL Series	<b>Modification Number / Title:</b> 3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)

**Modification Item 1 of 1:** F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)

**Manufacturer Information**

Manufacturer Name: Lockheed Martin - Block 3F LRIP 2-5	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 11	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jun 2016	Aug 2017	Aug 2018	Aug 2019	Jun 2020	
Delivery Dates		Sep 2016	Nov 2017	Nov 2018	Nov 2019	Sep 2020	

**Installation Information**

**Method of Implementation:** [none specified]:: Installation Name: Block 3F LRIP 2-5

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	4 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.200
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.450	- / -	- / -	- / -	- / -	6 / 0.450
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.550	- / -	- / -	- / -	14 / 0.550
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.600	- / -	- / -	11 / 0.600
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.050	- / -	1 / 0.050
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	4 / 0.200	- / -	- / -	- / -	6 / 0.450	14 / 0.550	12 / 0.650	- / -	- / -	36 / 1.850

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	4	-	-	-	-	1	1	2	2	3	4	3	4	3	3	3	3	-	-	-	-	-	36
Out	-	-	-	-	-	-	-	-	4	-	-	-	-	1	1	2	2	3	4	3	4	3	3	3	3	-	-	-	-	-	36

**Method of Implementation (Organic):** Block 3F LRIP 6-8

**Installation Quantity:** 18

**Footnotes:**

<sup>(4)</sup> LRIP 6-8 aircraft were delivered in a Block 3i configuration. Block 3F installation will occur at the O-Level.