

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 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:	Other Related Program Elements: 0604800M
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Line Item MDAP/MAIS Code: 198	Item MDAP/MAIS Code(s):
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	111.158	215.819	256.106	-	256.106	170.624	175.250	16.752	17.641	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	111.158	215.819	256.106	-	256.106	170.624	175.250	16.752	17.641	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	111.158	215.819	256.106	-	256.106	170.624	175.250	16.752	17.641	Continuing	Continuing

(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 F-35 Joint Strike Fighter (JSF) 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 STOVL 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 STOVL 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 2016 President's Budget enables several distinct efforts pertaining to the Marine STOVL aircraft to include post aircraft delivery concurrency retrofits, 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 SDD in the FY18 timeframe. Block 3i Fleet Release is planned by 4th Qtr FY15, Block 3F Fleet Release is planned by 4th Qtr FY17 and Block 4 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 2016 Navy **Date:** February 2015

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

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

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

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

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14) (Capability Improvement)	P-3a		- / 0.000	- / 38.123	- / 72.187	- / 63.516	- / -	- / 63.516
2 / F-35 STOVL CONCURRENCY (OSIP 023-14) (Capability Improvement)	P-3a		- / 0.000	- / 73.035	- / 143.632	- / 187.560	- / -	- / 187.560
3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16) (Capability Improvement)	P-3a		- / 0.000	- / -	- / -	- / 5.030	- / -	- / 5.030
Total Gross/Weapon System Cost			- / 0.000	- / 111.158	- / 215.819	- / 256.106	- / -	- / 256.106

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 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14) (Capability Improvement)	P-3a		- / 9.273	- / 2.588	- / 0.236	- / -	- / -	- / 185.923
2 / F-35 STOVL CONCURRENCY (OSIP 023-14) (Capability Improvement)	P-3a		- / 161.249	- / 170.163	- / 16.465	- / 17.641	Continuing	Continuing
3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16) (Capability Improvement)	P-3a		- / 0.102	- / 2.499	- / 0.051	- / -	- / -	- / 7.682
Total Gross/Weapon System Cost			- / 170.624	- / 175.250	- / 16.752	- / 17.641	Continuing	Continuing

*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:
Basis for FY 2016 budget request: FY16 STOVL active inventory is 47 aircraft. FY 2016 funding is requested for upgrades to 11 LRIP 2-5 JSF STOVLs to Block 3i configuration, 4 LRIP 3-4 JSF STOVLs to Block 3F configuration and for the highest priority concurrency modifications to support the USMC Iwakuni deployment.

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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: 0592 / F-35 STOVL Series				Modification Number / Title: 1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)				

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	38.123	72.187	63.516	-	63.516	9.273	2.588	0.236	-	-	185.923
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	38.123	72.187	63.516	-	63.516	9.273	2.588	0.236	-	-	185.923
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	38.123	72.187	63.516	-	63.516	9.273	2.588	0.236	-	-	185.923
<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 Short Takeoff and Vertical Landing (STOVL) 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 Fleet Release is planned to occur by 4th Qtr FY15.

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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: 0592 / F-35 STOVL Series					Modification Number / Title: 1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)			
Models of Systems Affected: F-35 STOVL				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M					
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													
<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	- / -	6 / 24.214	14 / 57.572	11 / 53.288	- / -	11 / 53.288	1 / 4.900	- / -	- / -	- / -	- / -	32 / 139.974	
<i>Subtotal: Recurring</i>	- / 0.000	- / 24.214	- / 57.572	- / 53.288	- / -	- / 53.288	- / 4.900	- / -	- / -	- / -	- / -	- / 139.974	
<i>Subtotal: F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)</i>	- / -	6 / 24.214	14 / 57.572	11 / 53.288	- / -	11 / 53.288	1 / 4.900	- / -	- / -	- / -	- / -	32 / 139.974	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 24.214	- / 57.572	- / 53.288	- / -	- / 53.288	- / 4.900	- / -	- / -	- / -	- / -	- / 139.974	
Support (All Modification Items)													
2.1) ILS	- / -	- / 9.360	- / 11.986	- / 12.046	- / -	- / 12.046	- / -	- / -	- / -	- / -	- / -	- / 13.392	
2.2) Other Support	- / -	- / -	- / 17.944	- / 18.182	- / -	- / 18.182	- / -	- / -	- / -	- / -	- / -	- / 16.126	
2.3) Training Equipment	- / -	- / 14.549	- / 14.685	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.234	
<i>Subtotal: Support</i>	- / 0.000	- / 13.909	- / 14.615	- / 10.228	- / -	- / 10.228	- / -	- / -	- / -	- / -	- / -	- / 38.752	
Installation													
<i>Modification Item 1 of 1: F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 14.373	- / 2.588	- / 0.236	- / -	- / -	- / 17.197	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 14.373	- / 2.588	- / 0.236	- / -	- / -	- / 17.197	
Total													
Total Cost (Procurement + Support + Installation)	0.000	38.123	72.187	63.516	-	63.516	9.273	2.588	0.236	-	-	185.923	

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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: 0592 / F-35 STOVL Series	Modification Number / Title: 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)

Manufacturer Information

Manufacturer Name: Lockheed Martin ⁽¹⁾	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 20

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

Installation Information

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

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	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.176	- / -	- / -	- / -	- / -	6 / 1.176
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	14 / 3.197	- / -	- / -	- / -	- / -	14 / 3.197
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 2.588	- / -	- / -	- / -	11 / 2.588
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.236	- / -	- / -	1 / 0.236
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	20 / 4.373	11 / 2.588	1 / 0.236	- / -	- / -	32 / 7.197

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	4	7	7	3	3	3	2	1	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	7	7	3	3	3	2	1	-	-	-	-	-	-	-	-	-

Footnotes:
⁽¹⁾ Depot Field Team Install

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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: 0592 / F-35 STOVL Series						Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)		

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	73.035	143.632	187.560	-	187.560	161.249	170.163	16.465	17.641	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	73.035	143.632	187.560	-	187.560	161.249	170.163	16.465	17.641	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	73.035	143.632	187.560	-	187.560	161.249	170.163	16.465	17.641	Continuing	Continuing
<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 FY16, 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. HQMC identified A, B, and C priority modifications as requirements for Initial Operational Capability (IOC), and D priority modifications as long-term retrofit needs following IOC. FY16 concurrency funds will also be used to implement IOC modifications across the rest of the USMC F-35B fleet.

TI Number	Mod	CR Title
TI-0000-1089	CR-021694	LRIP 3 Aux Air Inlet (AAI) Door Install
TI-0000-1324	CR-022656	Structural Cracking of Aft MLG Door Drive Link U-Joint
TI-0000-0116	CR-011738B	Full Qualified Clutch Cooling Fan
TI-0000-0367	CR-014114C	Engine Trailer Adapter Kit - FS556 Interface, J27006/J27007
TI-0000-0121	CR-014289B	Lift Fan Exhaust / Inboard Weapon Bay Door Interference
TI-0000-0396	CR-014289C	WBDD Limit Life, ECU
TI-0000-0655	CR-014819D	EO DAS Center Fuselage Vibration Testing
TI-0000-0373	CR-015026B	Aux Air Inlet Lock Actuation Mechanism
TI-0000-0423	CR-016270C	BLEED AIR SYSTEM DUCTING DESIGN
TI-0000-0099	CR-017502	J75503 Wrap Around Adapter Set
TI-0000-0683	CR-017534B	Rev- HT Bearing Issues

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: 0592 / F-35 STOVL Series	Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-0463 CR-017913B Support - Fairing, Mid, LH/RH TI-0000-0058 CR-018274 Back-Up Radio Tray Clearance TI-0000-0968 CR-018524 Material Removal Allowance for IPP Blocker and Screen TI-0000-0027 CR-018524A IPP Exhaust (STOVL) TI-0000-0138 CR-018564B Wingtip Light Improvement For FAA Compliance TI-0000-0825 CR-022768D LEF Improvements TI-0000-0031 CR-018835 Nose Wheel Steering (NWS) Motor TI-0000-0015 CR-018836 Stress Failure of Hydraulic Tube Support Bracket TI-0000-0063 CR-018838A Bootstrap Accumulator Redesign TI-0000-0045 CR-019003 CTOL/STOVL MLG SDD & LRIP Part Number Rolls TI-0000-0056 CR-019004B IPP Controller Part Number Roll TI-0000-0057 CR-019005 STOVL GO3 Control Valve Part Number Roll TI-0000-0117 CR-019107 CTOL Trestle Inst Cotter Pin TI-0000-0165 CR-019135B R3 Float Valve with Mechanical Thread Locking TI-0000-0231 CR-019340B PTMS EHA Cooling Orifices ? CTOL & STOVL TI-0000-0101 CR-023102A Lift Fan Inlet Door Full Qualification Part Number Roll TI-0000-0245 CR-019469C Antenna Switch Unit TI-0000-0264 CR-019516A PTMS Controller TI-0000-0124 CR-019533 Controller, Motor Pump Qual Failure (GMMP) TI-0000-0561 CR-019683E STOVL FS 496 Bulkhead Trunnion TI-0000-0280 CR-019841 Cockpit Panels Pushbutton Switch Simultaneity TI-0000-0398 CR-019930C Arresting Hook Aft Door Spring Damper Part Number Roll TI-0000-0375 CR-019979 STOVL IRCM Doors Bushing to Lug Interference TI-0000-0208 CR-020003A CTOL Arresting Gear Push Rods TI-0000-0424 CR-020066A Firewall Shutoff Valve Part Number Roll TI-0000-0477 CR-020097A CTOL EHAS Panels TI-0000-0875 CR-020189 CV Main Landing Gear Retract Actuator TI-0000-0130 CR-020289 EMERGENCY CONTROL VALVE QUAL FAILURE TI-0000-0575 CR-020289A ULF & 3BSD Emergency Control Valve TI-0000-0608 CR-020396D Fwd Upper Engine Mount (CTOL) TI-0000-0456 CR-020396D Bulkhead - FS 450 TI-0000-0457 CR-020396D Bulkhead - FS 472 TI-0000-0458 CR-020396D Bulkhead - FS 518 (Upper) TI-0000-0460 CR-020396D Bulkhead - FS 556 TI-0000-0432 CR-020397A Short Life - CTOL Wing Forward Root Rib TI-0000-0602 CR-020398A Brake Control Unit (BCU) TI-0000-0538 CR-020593 EHA Flaperon Support Equipment Locations TI-0000-0363 CR-020636A TRS Component Changes from Qual Test Failures TI-0000-0412 CR-020680B Wing Lighting Controller ? Salt Fog Failure TI-0000-0331 CR-020725 WBDDS RGAs Limited Life - Change Request Approval TI-0000-0654 CR-020726A IDMS Connector Ref Des Swap TI-0000-0673 CR-020743B Ordnance Quick Latch System (OQLS) ? Clip Lock TI-0000-0137 CR-020793 Pump, Motor GND Maint Qual Failure TI-0000-0132 CR-020907B Valve, Mechanical Sequence - T Qual Failure		

UNCLASSIFIED

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Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
1506N / 05 / 1	0592 / F-35 STOVL Series	2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-0811	CR-021167A 2WSH54239 CV Rear Spar	
TI-0000-0810	CR-021168 2WSH64241: CV Frame	
TI-0000-0817	CR-021170 2WSH44162: CV RH Tail Hook Longeron	
TI-0000-0631	CR-021180 Countermeasures Doors & NNMSB/WSESRB Concerns	
TI-0000-0263	CR-021181 Power Panel 1, 2, 3	
TI-0000-0544	CR-021194 Limited Life STOVL Mid Fairing Longeron	
TI-0000-0558	CR-021194 Short Life Parts: Keel Beam RH	
TI-0000-0559	CR-021194 Short Life Parts: NLG Drag Brace Ftg	
TI-0000-0566	CR-021194 Short Life Parts: Support, Otbd, FS 502.65 LH/RH	
TI-0000-0617	CR-021194 Limited Life STOVL STA 3/9 Aft Rib	
TI-0000-0545	CR-021217 Limited Life STOVL Nacelle Vent Inlet	
TI-0000-0564	CR-021217 STOVL Forward Root Rib (L6/U6)	
TI-0000-0808	CR-021259 Weapons Bay Door Uplock Sealing	
TI-0000-0098	CR-022768D CTOL Nose Landing Gear	
TI-0000-0910	CR-021395A PCD EU Cooling Rework	
TI-0000-0607	CR-021434 Limited Life CTOL STA 3/9 Aft Rib	
TI-0000-0135	CR-021459B Engine Driven Pump Life Limit	
TI-0000-0895	CR-021557A Arm Disable Current Leakage Path Correction	
TI-0000-0848	CR-021621 2CSH20930 Splice, Fuel Floor/Root Rib, FS 402, RHS/LHS"	
TI-0000-0377	CR-021694 Aux Air Inlet Door Redesign	
TI-0000-0845	CR-021891 CV VT Aft Moment Fitting Life Limited Structures Part	
TI-0000-0626	CR-021905A SMSFRIU SDD/LRIP Arm Disable Input	
TI-0000-0998	CR-021915B CTOL and CV Refuel System Mod	
TI-0000-0897	CR-022058 Roll Control Nozzle Door Redesign	
TI-0000-0495	CR-022105F OBIGGS & Pressure/Vent Changes for Lightning Protection	
TI-0000-0133	CR-022196A Filter Module, Pressure Qual Failure	
TI-0000-1011	CR-022226A L-Band Pre-Selector (LBPS) Calibration for Mode 5	
TI-0000-0802	CR-022695 CTOL Main Landing Gear	
TI-0000-0703	CR-022515A Roll Post Door Actuator Life Limitation	
TI-0000-1101	CR-022647A GMMP Controller EEE outage	
TI-0000-1092	CR-022666 Landing Taxi Light Redesign	
TI-0000-0119	CR-022736 MWARS Replacement	
TI-0000-0866	TBD Production Ejection Seat (-0023)	
TI-0000-1099	CR-022841B ATQA Mounting Bolt Interface	
TI-0000-0064	CR-022872 Counter Measures Door Control Valve on AF:6	
TI-0000-0158	CR-022877 WBDD Flexible Cable Re-design	
TI-0000-0191	CR-024623 270V BCCU	
TI-0000-0574	CR-023121 B/D Electronics Units Modifications	
TI-0000-1485	CR-023282 CA F1 Feed Tank Gasket	
TI-0000-1540	CR-023332A CV Rudder Hinge 2	
TI-0000-1372	CR-023355D EW Block-2 DRFM Module Firmware Issue	
TI-0000-1652	CR-023599 Rudder Slider Hinge Wear	
TI-0000-1654	CR-023712 CV Right Hand (RH) Center Fuselage Avionics Bay Floor	
TI-0000-2548	CR-023712 CV Center Fuselage FS 402 Outboard Joint Limited Life	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
1506N / 05 / 1	0592 / F-35 STOVL Series	2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-2551	CR-024031 L-Band Power Amplifier (LBPA) Update for LINK-16	
TI-0000-1709	CR-024114 Carrier Variant Marker Beacon Antenna	
TI-0000-2513	CR-024153 CV IPP Shear Web Limited Life	
TI-0000-1207	CR-024162 Vehicle Management Computer (VMC) Electrical Connection Issue	
TI-0000-0441	CR-20773A CTOL FS 594 Centre Arch Low Life	
TI-0000-1549	CR-023540A Firmware Update for AMS Cartridge Reset SPAR	
TI-0000-0405	CR-23769 "EDU Random Vibration Failures"	
TI-0000-0702	CR-24090 CV Fwd Arresting Gear Door Actuator Life Limitation	
TI-0000-2554	CR-24872 J84001 Fiber Optic Inspection Set ? Extension Handle DR?s	
TI-0000-0122	TBD 28V BATTERY AND CHARGER CHANGES	
TI-0000-0129	TBD MLG Control Valve Part Number Roll	
TI-0000-0709	CR-022768D HT EHA Block Change for LRIP 4	
TI-0000-0282	TBD Update to Audio Control Electronics (ACE) Unit	
TI-0000-0469	TBD Composite BOS 2ZCH42000-0002 Assemblies	
TI-0000-0583	TBD CTOL STOVL Rudder EHA Design Change	
TI-0000-0906	TBD NLG Lug Inspection and Support Stiffener	
TI-0000-1097	CR-022972 Ball Joint Salt Fog Failure	
TI-0000-0913	TBD LEFAS PDU Resolver and Rotor Shaft Seal Life	
TI-0000-1113	CR-024000 AESG Power Connector Rating (Generator)	
TI-0000-1256	TBD CV Nose Landing Gear Drag Brace Door Cracking	
TI-0000-1396	TBD HTCA with End Gland Material Issue	
TI-0000-0336	CR-024982 Panoramic Cockpit Display (PCD) Major Variances - DU	
TI-0000-0343	CR-024982 Panoramic Cockpit Display (PCD) Major Variances - EU	
TI-0000-0480	CR-025000 ICC Qual Issues	
TI-0000-2784	TBD CNI 3A & 3B Integrated Backplane Assembly (IBA) Upgrades	
TI-0000-0221	TBD DAS Refuel Lights Lenses	
TI-0000-0406	CR-025271 Ordnance Hoist System (OHS) Hoist	
TI-0000-1102	CR-022481B BH-1 Weapons Bay Doors	
TI-0000-1472	TBD Gun Port Door Threads in Bearing Issue	
TI-0000-0329	CR-021982 Refueling Bay and Nozzle Clash LRIP 1-3 Modification	
TI-0000-0781	CR-023432 3BSM NBD - Assembly Changes	
TI-0000-1446	TBD CV Fuel Dump	
TI-0000-0908	CR-023802 STOVL Fuel Dump (CCDD LRIP2-051)	
TI-0000-1000	CR-022481 Inboard Weapon Bay Door Flipper Door Design Change	
TI-0000-1060	CR-022121 Final Finishes	
TI-0000-1078	CR-025006 AF1 Nacelle Insulation	
TI-0000-0180	TBD CTOL Fuel Floor Tooling Holes ? Bay 207 to Gun Bay	
TI-0000-0787	CR-024068 HMDS Path Forward	
TI-0000-1048	CR-023982 Panoramic Cockpit Display-Electronic Unit (PCD-EU)	
TI-0000-1062	TBD CV Main Landing Gear	
TI-0000-1063	TBD CV Nose Landing Gear	
TI-0000-0284	TBD STOVL Canopy frame	
TI-0000-0316	TBD CTOL FS 496 Bulkhead Trunnion	
TI-0000-0321	TBD Lift Fan Exhaust Door Aft Uplock Hook Failure	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
1506N / 05 / 1	0592 / F-35 STOVL Series	2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-0467	TBD Fuel Floor - FS496-556, LH	
TI-0000-0468	TBD Fuel Floor - FS496-556, RH	
TI-0000-0486	TBD Short Life - STOVL Inner Wing FS518 Lower Bulkhead	
TI-0000-0543	TBD Path Forward for Outboard Rib at Station 2 and 10	
TI-0000-0556	TBD STOVL Short Life Parts: Aft Mid Keel	
TI-0000-0638	TBD STOVL BL 0.0 Web Fwd Upper Engine Mount Support	
TI-0000-0813	TBD CV Life Limited Structures Part - LH/RH Pylon Sta 3 Aft Rib	
TI-0000-0815	TBD 2WSH24212 CV FWD Upper Engine Mount	
TI-0000-0816	TBD 2WSH34496 - CV FS 496 Bkhd Station 6	
TI-0000-1440	TBD STOVL Thrust Mount Shear Webs	
TI-0000-0723	TBD EOTS PBS Startup Timeline	
TI-0000-0055	CR-019070 IPP Bay Vent Fan Electrical Bond	
TI-0000-0281	CR-020226 Hoist Point Cover FIP Proposal	
TI-0000-1023	CR-022936 Roll Nozzle and Duct Bay - BALD Sensors redesign	
TI-0000-0193	CR-021921B EW Gain State Control Logic Error	
TI-0000-1365	CR-022721A Cat Launch Shock Exceeds INS PBS	
TI-0000-0448	TBD Add -0007 ASSCA/-0006 ATQA To Aircraft TVE	
TI-0000-0842	TBD 2ESH10095 CV HT Rib 5 Life Limited Structures Part	
TI-0000-0976	TBD BF6 and BF8 RCS ATP	
TI-0000-0819	TBD Liquid Cooling System Cart - Facility AC Power Interface	
TI-0000-1134	TBD Cabin Pressure Tester	
TI-0000-1198	TBD HT Heating	
TI-0000-0361	CR-023382 Vertical Tail 575 Fitting	
TI-0000-0386	CR-025191 Fuel System Major Variance for LRIP 1 ? Signal Amplifier	
TI-0000-0516	CR-022972 AAR Probe Weak Link Adaptor Re-design	
TI-0000-0576	CR-020289A Refuel Probe/Tailhook Emergency Control Valve	
TI-0000-0578	CR-020289A Aux Inlet Door Emergency Control Valve	
TI-0000-1082	TBD Power Panel 1 & 2 Random Vibration Failures	
TI-0000-1203	CR-021217 Life Limited 402 Frame	
TI-0000-1289	CR022737 US16E Ejection Seat / MWARS Retrofit Configuration Proposal	
TI-0000-1421	TBD STOVL Main Landing Gear	
TI-0000-1422	CR-021388A STOVL Nose Landing Gear	
TI-0000-1483	TBD Power Panel 3 Random Vibration Failures - Second Failure	
TI-0000-1486	CR-023838 STOVL FS 503 Frame / IPP Shear Web Durability Test Failure	
TI-0000-1515	CR-024000 ESG Service Life (Generator) -0003	
TI-0000-1551	TBD 28V Battery Full Qualification	
TI-0000-1589	CR-023300 Hydraulic System Single Point Failure	
TI-0000-1786	CR-023729 FS-402 Frame (TIN-075)	
TI-0000-1857	TBD 2GHH42033 Time Delay Valve ? Fully Qualified Part	
TI-0000-2467	CR-025204 CTOL FS 503 Frame Limited Life	
TI-0000-2468	CR-025204 CTOL IPP Shear Web Limited Life Discovery	
TI-0000-2641	CR-024341 STOVL Short Shank Condition, Engine Access Panel	
TI-0000-2674	CR-24794 Cracking of Bifurcation Seam Treatment	
TI-0000-2892	CR-025079 BF5 IRCM Hinge to Drive Link Clash	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
1506N / 05 / 1	0592 / F-35 STOVL Series	2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-1552	TBD 28V BCCU Lightning Compliance	
TI-0000-2682	TBD AR Probe Light	
TI-0000-0884	CR-024000 AESG - Material & Workmanship	
TI-0000-1142	TBD Missionized Gun System Jumper Panel Hoses and Drain Seal	
TI-0000-1796	CR-025271 Ordnance Hoist System (OHS) Motor	
TI-0000-2506	TBD Gun Port Blast Mislocation	
TI-0000-2546	TBD Weapon bay light departing aircraft during flight	
TI-0000-2833	TBD Gun System Muzzle and Purge Door Time Out	
TI-0000-0387	CR-016910 Fuel System Major Variance for LRIP 1 ? Dive Rate Performance	
TI-0000-1161	CR-22656 STOVL Aft MLG Door Cracking	
TI-0000-1518	CR-024193 PAO Cooling Orifices In Center Fuselage Cold Liquid Loop	
TI-0000-1783	TBD Canopy Boot Cracking	
TI-0000-2633	CR-024265 Flaperon Blade Seal Buckling	
TI-0000-2672	TBD Radome Shroud Gapping / Trimming	
TI-0000-2909	CR-025167 IPP Bay High Flow Air Duct Separation	
TI-0000-2931	TBD CV NLG Drag Brace Cylinder and Steering Motor	
TI-0000-0236	CR-019412 FPS Fire and Bleed Leak Controller (FBLC) Redesign	
TI-0000-0260	CR-016633C Canopy Actuation System	
TI-0000-0738	CR-025142 Modified Fuel Dump Valve (T28a)	
TI-0000-0772	TBD PTMS Turbomachine/ACCM Cable Interface Changes	
TI-0000-0327	TBD STOVL High Sea State Fuel Stowage ? Rev B to CR-016712A	
TI-0000-0737	TBD IPP Purge Issue Due to Low Fuel Shutdown	
TI-0000-1650	CR-022737 MWARS for Production Seat	
TI-0000-1653	CR-23490 Ground Maintenance Valve Deletion to Prevent PAO in Cockpit (DR 1-4815699)	
TI-0000-2416	TBD CV Drag Strut - Alt Gear Extension	
TI-0000-2450	CR-023901 Bleed Air Sensor Fitting Galling	
TI-0000-2635	TBD CV NLG Interference Problems - OBOGs routing	
TI-0000-2725	CR-024162 Vehicle Management Computer (VMC)	
TI-0000-2834	CR-024904 Boarding Ladder Cracks	
TI-0000-2889	TBD WBDDS Supplier Disclosure on Lower Breakaway Torque	
TI-0000-0771	CR-16464B Install Battery into CNI Rack 3A and 3B	
TI-0000-0945	TBD CTOL Audio Control Electronics (ACE) In-Flight Refueling	
TI-0000-1056	CR-016660C RADAR 1A & 1B Racks -0002 Cut-in	
TI-0000-2818	CR-025046 EOTS LoS Pointing Angle	
TI-0000-1093	CR-023616 CV Arresting Gear	
TI-0000-0358	TBD Production Ejection Seat (-0021)	
TI-0000-0514	TBD Lift Fan Inlet Maintenance Fix	
TI-0000-0579	TBD Auto Pilot	
TI-0000-1520	TBD CV Nose Landing Gear Aircraft Integration	
TI-0000-1761	TBD HT EHA Solenoid Valve (SOV) Qual Test Failure	
TI-9999-0655	TBD EO DAS Center Fuselage Vibration Testing	
TI-0000-0730	TBD CV Rudder EHA	
TI-0000-0833	CR-021053 Short Shank Condition on Engine Inspection Panels	
TI-0000-1122	TBD LEFAS Foldbox Lug Cracking	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
1506N / 05 / 1	0592 / F-35 STOVL Series	2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-1192	TBD CTOL Thrust Mount Shear Web	
TI-0000-1494	TBD PTMS Turbomachine Configuration to Correct Qualification Failures	
TI-0000-1499	TBD FS 472 Bulkhead Crack BH-1	
TI-0000-1541	TBD CV HT LOWER SKIN BOLTS SD-2013-010	
TI-0000-1649	TBD CV LEFAS Asymmetry Brake Lug Cracking	
TI-0000-1655	CR-024025 STOVL Right Hand (RH) and Left Hand (LH) Rear Spar Lower Flange Fatigue Cracks	
TI-0000-2423	TBD CV Lower FS 518 Design Change	
TI-0000-2448	CR-023966A CV Thrust Mount Shear Web - Service Life	
TI-0000-2670	TBD Durability Findings 2013 and Bulkhead FS 496	
TI-0000-2813	TBD Durability Findings and FS 450, 472, 556, 518 Lower and IRCM Fitting	
TI-0000-2814	TBD Durability Findings 2013 FS 575 Center Arch Frame	
TI-0000-1104	TBD CTOL Ventilation Leakage from Bay 207L	
TI-0000-0992	CR-013553 Outboard Vertical Tail Seal Redesign	
TI-0000-0904	CR-021759 Backup Radio Guide Pin Misalignment	
TI-0000-1053	CR-022138 Fire Suppression Bottle Low Clearance	
TI-0000-2675	TBD Roll Nozzle Bay - BALD Sensors - Supplier Disclosure	
TI-0000-2921	CR-025116 Gun Vent Door Unpainted Brackets	
TI-0000-0485	TBD J12003 Ejection Seat Stand Design Issues	
TI-0000-0660	TBD J26007 LF Driveshaft	
TI-0000-0799	TBD Canopy Sling	
TI-0000-1337	TBD DR 1-2076141 Tool Boxes not within weight standards	
TI-0000-1338	TBD DR 1-2565051 Tool Set Shipboard FOD Hazard	
TI-0000-1629	TBD Deployable Mission Rehearsal Trainer #1	
TI-0000-1658	TBD Changes to Support Turning on AMC's Algorithms in ALIS	
TI-0000-2440	TBD J26035 Adapter, Drive Shaft Compression Galling issue	
TI-0000-2699	CR-023093C Fibre Channel Switch Design Issues -0005	
TI-0000-2797	TBD SE Weight Label and Forklift Provisions	
TI-0000-2954	TBD STOVL NLG EEE Failure	
TI-0000-1408	TBD AEL, Aft Sector	
TI-0000-2865	TBD TR2 and SP-SPIO	
TI-7777-0004	CR-013644D MLG Strut Redesign	
TI-7777-0007	CR-015718A OBOGS Plenum HEPA Filter Provisioning	
TI-7777-0010	CR-016660B Radar Harness Redesign	
TI-7777-0024	CR-018697 Gun Gas Purge & Gun Port Door Actuators	
TI-7777-0031	CR-018544 Brake Control Electronic Unit Update	
TI-7777-0042	CR-018487A Return Fuel Cooler HX Coating	
TI-7777-0057	CR-018378 Nacelle Fan - Full Qualified Configuration	
TI-7777-0077	CR-009382B Small Diameter Bomb (SDB) Rack Strut	
TI-7777-0081	CR-014768E 270V BCCU Change	
TI-7777-0083	TBD EHAS/LEFAS -0011 EU & Rack Config Update	
TI-7777-0084	CR-016708A ACCM Filter Pin	
TI-7777-0085	CR-016758A Replacement of Door Actuator Lock Assemblies	
TI-7777-0087	CR-016909A Flaperon EHA Pump Design Change	
TI-7777-0089	CR-017095 Avionics Bay Environmental Seal Change	

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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: 0592 / F-35 STOVL Series	Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-7777-0093 CR-017505 Flow Sensor EMI/Vibration TI-7777-0095 CR-017773 Manual Drive Unit TI-7777-0097 CR-017937A IEU Lightning Compliance TI-7777-0098 TBD CTOL Structure Redesign for Updated Gun Loads TI-7777-0101 CR-15956A NLG Down Lock Actuator TI-7777-0102 CR-016633C Canopy Actuation System TI-7777-0106 CR-016912 WBD Fwd Uplock Roller Bracket		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES 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.		

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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: 0592 / F-35 STOVL Series					Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)			
Models of Systems Affected: F-35 STOVL				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M					
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													
<i>Modification Item 1 of 1: F-35 STOVL CONCURRENCY (OSIP 023-14)</i>													
A Kits													
Recurring													
1.1.1) Structures - Organic	- / -	- / -	- / 68.943	- / 69.397	- / -	- / 69.397	- / 45.150	- / 44.242	- / 5.598	- / 6.174	Continuing	Continuing	
1.1.2) Concurrency - Organic	- / -	- / 37.302	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.302	
1.1.3) Mission Systems - Organic	- / -	- / -	- / 12.927	- / 15.005	- / -	- / 15.005	- / 12.901	- / 13.613	- / 1.647	- / 1.941	Continuing	Continuing	
1.1.4) Vehicle Systems - Organic	- / -	- / -	- / 10.054	- / 11.253	- / -	- / 11.253	- / 9.675	- / 10.211	- / 1.153	- / 1.411	Continuing	Continuing	
1.1.5) Propulsion - Organic	- / -	- / 35.733	- / 43.090	- / 76.901	- / -	- / 76.901	- / 77.399	- / 81.678	- / 5.763	- / 5.293	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 0.000	- / 73.035	- / 135.014	- / 172.556	- / -	- / 172.556	- / 145.125	- / 149.744	- / 14.161	- / 14.819	Continuing	Continuing	
<i>Subtotal: F-35 STOVL CONCURRENCY (OSIP 023-14)</i>	- / -	- / 73.035	- / 135.014	- / 172.556	- / -	- / 172.556	- / 145.125	- / 149.744	- / 14.161	- / 14.819	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 73.035	- / 135.014	- / 172.556	- / -	- / 172.556	- / 145.125	- / 149.744	- / 14.161	- / 14.819	Continuing	Continuing	
Support (All Modification Items)													
2.1) ILS	- / -	- / -	- / 5.386	- / 7.502	- / -	- / 7.502	- / 9.675	- / 11.911	- / 1.317	- / 1.588	Continuing	Continuing	
2.2) Other Support	- / -	- / -	- / 3.232	- / 7.502	- / -	- / 7.502	- / 6.449	- / 8.508	- / 0.987	- / 1.234	Continuing	Continuing	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / 8.618	- / 15.004	- / -	- / 15.004	- / 16.124	- / 20.419	- / 2.304	- / 2.822	Continuing	Continuing	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	73.035	143.632	187.560	-	187.560	161.249	170.163	16.465	17.641	Continuing	Continuing	

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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: 0592 / F-35 STOVL Series	Modification Number / Title: 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 ⁽²⁾	Manufacturer Location: Various
Administrative Leadtime (<i>in Months</i>): 0	Production Leadtime (<i>in Months</i>): 0

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

Installation Information

Method of Implementation (Organic): No Quantities Associated with Install	Installation Quantity: 0
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Footnotes:
⁽²⁾ Quantities will vary with each mod.

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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: 0592 / F-35 STOVL Series				Modification Number / Title: 3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)				

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	5.030	-	5.030	0.102	2.499	0.051	-	-	7.682
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	-	-	5.030	-	5.030	0.102	2.499	0.051	-	-	7.682
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	5.030	-	5.030	0.102	2.499	0.051	-	-	7.682
<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 Short Takeoff and Vertical Landing (STOVL) 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 005-16) focuses on the Block 3F configuration upgrade effort for 32 LRIP 2-5 and 18 LRIP 6-8 STOVL aircraft and integrated systems. All of the LRIP 2-5 STOVL 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 STOVL aircraft are upgraded to a Block 3F baseline for full warfighting capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

Block 3F Fleet Release is planned to occur by 4th Qtr FY17.

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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: 0592 / F-35 STOVL Series						Modification Number / Title: 3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)			
Models of Systems Affected: F-35 STOVL				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M					
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	
	<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>	
Procurement													
<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	- / -	4 / 0.004	2 / 0.002	31 / 0.031	1 / 0.001	- / -	- / -	38 / 0.038	
1.1.2) Block 3F LRIP 6-8 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.018	- / -	- / -	- / -	18 / 0.018	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 0.004	- / -	- / 0.004	- / 0.002	- / 0.049	- / 0.001	- / -	- / -	- / 0.056	
<i>Subtotal: F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)</i>	- / -	- / -	- / -	4 / 0.004	- / -	4 / 0.004	2 / 0.002	49 / 0.049	1 / 0.001	- / -	- / -	56 / 0.056	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / 0.004	- / -	- / 0.004	- / 0.002	- / 0.049	- / 0.001	- / -	- / -	- / 0.056	
Support (All Modification Items)													
2.1) Training Equipment	- / -	- / -	- / -	- / 4.826	- / -	- / 4.826	- / -	- / -	- / -	- / -	- / -	- / 4.826	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 4.826	- / -	- / 4.826	- / -	- / -	- / -	- / -	- / -	- / 4.826	
Installation													
<i>Modification Item 1 of 1: F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)</i>	- / 0.000	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 0.100	- / 2.450	- / 0.050	- / -	- / -	- / 2.800	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 0.100	- / 2.450	- / 0.050	- / -	- / -	- / 2.800	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	5.030	-	5.030	0.102	2.499	0.051	-	-	7.682	

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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: 0592 / F-35 STOVL Series	Modification Number / Title: 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): 1 Production Leadtime (in Months): 3

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

Manufacturer Name: Lockheed Martin - Block 3F LRIP 6-8 Manufacturer Location: Fort Worth, TX

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 3

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

Installation Information

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

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	4 / 0.200	- / -	4 / 0.200	- / -	- / -	- / -	- / -	- / -	4 / 0.200
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.100	- / -	- / -	- / -	- / -	2 / 0.100
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 1.550	- / -	- / -	- / -	31 / 1.550
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.050	- / -	- / -	1 / 0.050
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	4 / 0.200	- / -	4 / 0.200	2 / 0.100	31 / 1.550	1 / 0.050	- / -	- / -	38 / 1.900

Installation Schedule

PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	4	-	-	2	-	-	10	10	11	-	1	-	-	-	-	-	-	-	-	38
Out	-	-	-	-	-	-	-	-	-	-	4	-	-	2	-	-	10	10	11	-	1	-	-	-	-	-	-	-	-	38

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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: 0592 / F-35 STOVL Series	Modification Number / Title: 3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)

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

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: Block 3F LRIP 6-8

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.900	- / -	- / -	- / -	18 / 0.900
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.900	- / -	- / -	- / -	18 / 0.900

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	-	-	-	-	-	-	-	-	-	-	18
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	-	-	-	-	-	-	-	-	-	-	18