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**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 01: Combat Aircraft / BSA 1: Combat Aircraft	<b>P-1 Line Item Number / Title:</b> 0152 / JSF STOVL
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0204146M	Other Related Program Elements: 0204146N, 0207142F
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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> )	21	6	15	16	-	16	20	20	20	21	172	311
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4,801.532	1,287.605	2,291.599	2,240.828	-	2,240.828	2,853.972	2,758.152	2,787.591	2,868.001	22,845.941	44,735.221
Less PY Advance Procurement ( <i>\$ in Millions</i> )	839.436	103.195	143.885	203.060	-	203.060	233.648	276.374	273.464	279.199	2,672.774	5,025.035
Net Procurement (P-1) ( <i>\$ in Millions</i> )	3,962.096	1,184.410	2,147.714	2,037.768	-	2,037.768	2,620.324	2,481.778	2,514.127	2,588.802	20,173.167	39,710.186
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	942.631	143.885	203.060	233.648	-	233.648	370.472	227.562	231.003	220.000	2,452.774	5,025.035
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>4,904.727</b>	<b>1,328.295</b>	<b>2,350.774</b>	<b>2,271.416</b>	<b>-</b>	<b>2,271.416</b>	<b>2,990.796</b>	<b>2,709.340</b>	<b>2,745.130</b>	<b>2,808.802</b>	<b>22,625.941</b>	<b>44,735.221</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	64.194	111.569	123.252	-	123.252	26.159	88.434	160.150	140.989	Continuing	Continuing
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	178,108.476	183,410.667	129,988.400	127,073.313	-	127,073.313	126,419.400	124,838.000	123,557.450	124,278.905	129,599.517	132,543.447
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	228,644.381	214,600.833	152,773.267	140,051.750	-	140,051.750	142,698.600	137,907.600	139,379.550	136,571.476	132,825.238	143,843.154

**Description:**

Joint Strike Fighter (JSF) program will develop and field a family of aircraft that meets the needs of DoD and allies with the F-35A Conventional Take Off and Landing (CTOL) variant, the F-35B Short Take-Off and Vertical Landing (STOVL) variant, and the F-35C Carrier Variant (CV) with optimum commonality among the three variants to minimize life cycle costs. This is a joint program with no executive service. Service Acquisition Executive (SAE) authority alternates between the Department of the Navy (DoN) and the Department of the Air Force (DAF) and currently resides with the Navy. The F-35s are the next generation of strike fighters which has increased aero-performance, stealth signature and countermeasures. Its advanced avionics, data links and adverse weather precision targeting incorporates the latest technology available. The F-35 has increased range with internal fuel and includes superior weaponry over existing aircraft. The highly supportable, affordable, state of the art aircraft commands and maintains global air superiority. The production cost and quantities are interdependent due to one manufacturer for the program. USAF regular procurement commenced in FY07, DON regular procurement commenced in FY08.

**Notes:**

(1) FY10 and prior quantity and funding for F-35B STOVL and F-35C CV were reported under same BLI (0147). Result is 29 F-35B STOVL aircraft (6 - FY08; 7 - FY09; and 16 - FY10) are included in the BLI 0147 Prior Year Column. The F-35C CV budget continues to report under BLI 0147. CY Advance Procurement for FY10 F-35B STOVL aircraft was included in the FY10 F-35C CV budget. The Advance Procurement Credit for FY10 F-35B STOVL aircraft was included in FY11 F-35B STOVL budget.

(2)Cost to complete should be:

Gross Weapon System Cost- \$23,692.975

Prior Year AP- \$3,121.464

Net Procurement- \$20,571.511

CY Advanced Procurement- \$2,054.430

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**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 01: Combat Aircraft / BSA 1: Combat Aircraft	<b>P-1 Line Item Number / Title:</b> 0152 / JSF STOVL
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> 0204146M	<b>Other Related Program Elements:</b> 0204146N, 0207142F
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<b>Line Item MDAP/MAIS Code:</b> 198	<b>Item MDAP/MAIS Code(s):</b> N/A
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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-5	1 / Joint Strike Fighter - STOVL	P-5a, P-21		21 / 4,801.532	6 / 1,287.605	15 / 2,291.599	16 / 2,240.828	- / -	16 / 2,240.828
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>21 / 4,801.532</b>	<b>6 / 1,287.605</b>	<b>15 / 2,291.599</b>	<b>16 / 2,240.828</b>	<b>- / -</b>	<b>16 / 2,240.828</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 FY17 BUDGET REQUEST: The FY17 budget provides funding for 16 Short Take-Off, Vertical Landing (STOVL) F-35B aircraft for the Marine Corps, with associated support for DoN requirements, and Advance Procurement for 20 STOVL F-35B aircraft in FY18.

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**Exhibit P-5, Cost Analysis: PB 2017 Navy** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0152 / JSF STOVL	<b>Item Number / Title [DODIC]:</b> 1 / Joint Strike Fighter - STOVL
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity ( <i>Units in Each</i> )	21	6	15	16	-	16
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4,801.532	1,287.605	2,291.599	2,240.828	-	2,240.828
Less PY Advance Procurement ( <i>\$ in Millions</i> )	839.436	103.195	143.885	203.060	-	203.060
Net Procurement (P-1) ( <i>\$ in Millions</i> )	3,962.096	1,184.410	2,147.714	2,037.768	-	2,037.768
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	942.631	143.885	203.060	233.648	-	233.648
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>4,904.727</b>	<b>1,328.295</b>	<b>2,350.774</b>	<b>2,271.416</b>	-	<b>2,271.416</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	64.194	111.569	123.252	-	123.252
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	228,644.381	214,600.833	152,773.267	140,051.750	-	140,051.750

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Flyaway Cost</b>																		
Recurring Cost																		
1.1.1) Airframe/CFE <sup>(1)</sup>	90,455.333	21	1,899.562	83,044.667	6	498.268	71,805.800	15	1,077.087	69,958.688	16	1,119.339	-	-	-	69,958.688	16	1,119.339
1.1.2) CFE Electronics	23,943.238	21	502.808	21,588.000	6	129.528	16,332.200	15	244.983	15,919.813	16	254.717	-	-	-	15,919.813	16	254.717
1.1.4) Engines/Eng Acc <sup>(1)</sup>	33,587.714	21	705.342	32,492.667	6	194.956	30,816.133	15	462.242	31,114.500	16	497.832	-	-	-	31,114.500	16	497.832
1.1.7) Rec Flyaway ECO	3,256.762	21	68.392	2,742.500	6	16.455	2,379.067	15	35.686	2,339.875	16	37.438	-	-	-	2,339.875	16	37.438
<i>Subtotal: Recurring Cost</i>	-	-	3,176.104	-	-	839.207	-	-	1,819.998	-	-	1,909.326	-	-	-	-	-	1,909.326
Non Recurring Cost																		
1.2.1) Non- Recur Cost <sup>(2)</sup>	-	-	401.523	-	-	212.466	-	-	50.621	-	-	41.347	-	-	-	-	-	41.347
1.2.2) Ancillary Equip <sup>(3)</sup>	-	-	162.651	-	-	48.791	-	-	79.207	-	-	82.500	-	-	-	-	-	82.500
<i>Subtotal: Non Recurring Cost</i>	-	-	564.174	-	-	261.257	-	-	129.828	-	-	123.847	-	-	-	-	-	123.847
<i>Subtotal: Flyaway Cost</i>	-	-	<b>3,740.278</b>	-	-	<b>1,100.464</b>	-	-	<b>1,949.826</b>	-	-	<b>2,033.173</b>	-	-	-	-	-	<b>2,033.173</b>
Support Cost																		
2.1) Airframe PGSE <sup>(4)</sup>	-	-	169.454	-	-	7.115	-	-	97.363	-	-	11.443	-	-	-	-	-	11.443
2.2) Engine PGSE <sup>(5)</sup>	-	-	62.686	-	-	21.800	-	-	36.730	-	-	13.936	-	-	-	-	-	13.936
2.3) Avionics PGSE	-	-	167.100	-	-	24.433	-	-	76.491	-	-	45.770	-	-	-	-	-	45.770
2.4) Pec Trng Eq	-	-	214.152	-	-	15.636	-	-	3.125	-	-	0.425	-	-	-	-	-	0.425

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<b>Exhibit P-5, Cost Analysis: PB 2017 Navy</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0152 / JSF STOVL	<b>Item Number / Title [DODIC]:</b> 1 / Joint Strike Fighter - STOVL
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
2.5) Pub/Tech Eq / ALIS (6)	-	-	33.870	-	-	4.566	-	-	3.360	-	-	8.867	-	-	-	-	-	8.867
2.6) Other ILS (7)	-	-	267.503	-	-	58.197	-	-	64.022	-	-	63.722	-	-	-	-	-	63.722
2.8) Prod Eng Supt	-	-	146.489	-	-	55.394	-	-	60.684	-	-	63.493	-	-	-	-	-	63.493
<i>Subtotal: Support Cost</i>	-	-	<b>1,061.254</b>	-	-	<b>187.141</b>	-	-	<b>341.775</b>	-	-	<b>207.656</b>	-	-	-	-	-	<b>207.656</b>
<b>Gross/Weapon System Cost</b>	<b>228,644.381</b>	<b>21</b>	<b>4,801.532</b>	<b>214,600.833</b>	<b>6</b>	<b>1,287.605</b>	<b>152,773.267</b>	<b>15</b>	<b>2,291.599</b>	<b>140,051.750</b>	<b>16</b>	<b>2,240.828</b>	-	-	-	<b>140,051.750</b>	<b>16</b>	<b>2,240.828</b>

(t) indicates the presence of a P-5a

**Footnotes:**

- (1) Airframe Unit Recurring Flyaway (URF) is directly affected by USAF, USN and International Partners quantity profile changes year over year.
- (2) Non-recurring Costs include such items as DoN share of Production Non-Recurring Tooling per the Joint Strike Fighter (JSF) Production, Sustainment, and Follow-on-Development Memorandum of Understanding (MOU) between the U.S. and eight partner nations cooperating in the production, sustainment and follow-on development of the JSF. In addition, it includes funding for Diminishing Manufacturing Sources ("life-of-type" buys), concurrency engineering, technical assistance and Cost Reduction Initiatives (CRI). FY17 non-recurring funds will be used to procure tooling and requirements unique to the F-35B in support of ramp up to full rate production.
- (3) Year to year changes in Ancillary Equipment costs due to changes in Aircraft Quantity. Equipment includes Gen III Helmet Mounted Displays, launchers, and Pilot Flight Equipment.
- (4) Airframe, Engines and Avionics PGSE: PB16 accounted for the stand-up at Yuma. PB17 accounts for two shore-based standups in 2018. One at Yuma and one at Iwakuni.
- (5) Airframe, engines and avionics PGSE Support equipment is procured two years prior to squadron standup. These fund Yuma and Iwakuni stand-up in 2018.
- (6) Line 2.5 (Pubs / Tech Data / Automated Logistics Info System) budget consist entirely of ALIS. New ALIS equipment product schedule to account for squadron standups at Yuma and Iwakuni.
- (7) Year-over-year increase in support cost is greater than OMB/OSD inflation rate due to site and squadron stand-up of aircraft, and ramp-up to full operational capability.

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**Exhibit P-5a, Procurement History and Planning: PB 2017 Navy** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0152 / JSF STOVL	<b>Item Number / Title [DODIC]:</b> 1 / Joint Strike Fighter - STOVL
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) Airframe/CFE <sup>(†)</sup>		2013	LOCKHEED MARTIN <sup>(8)</sup> / FT WORTH	SS / FPIF	NAVAIR	Sep 2013	Aug 2015	6	87,427.333	Y		Apr 2012
1.1.1) Airframe/CFE <sup>(†)</sup>		2014	LOCKHEED MARTIN <sup>(8)</sup> / FT WORTH	SS / FPIF	NAVAIR	Nov 2014	Apr 2016	6	88,207.667	Y		Jan 2013
1.1.1) Airframe/CFE <sup>(†)</sup>		2015 <sup>(9)</sup>	LOCKHEED MARTIN <sup>(8)</sup> / FT WORTH	SS / FPIF	NAVAIR	Mar 2016	Jun 2017	6	83,044.667	Y		Jan 2014
1.1.1) Airframe/CFE <sup>(†)</sup>		2016 <sup>(10)</sup>	LOCKHEED MARTIN <sup>(8)</sup> / FT WORTH	SS / FPIF	NAVAIR	Mar 2016	Apr 2018	15	71,805.800	Y		Jan 2015
1.1.1) Airframe/CFE <sup>(†)</sup>		2017	LOCKHEED MARTIN <sup>(8)</sup> / FT WORTH	SS / FPIF	NAVAIR	Mar 2017	Jan 2019	16	69,958.688	Y		Jan 2016
1.1.4) Engines/Eng Acc <sup>(†)</sup>		2012	UNITED TECH, PRATT & WHITNEY / EAST HARTFORD, CT	SS / FPIF	NAVAIR	Oct 2013	Oct 2014	6	35,590.000	Y		Oct 2011
1.1.4) Engines/Eng Acc <sup>(†)</sup>		2013	UNITED TECH, PRATT & WHITNEY / EAST HARTFORD, CT	SS / FPIF	NAVAIR	Oct 2014	Jun 2015	6	36,442.833	Y		Jun 2012
1.1.4) Engines/Eng Acc <sup>(†)</sup>		2014	UNITED TECH, PRATT & WHITNEY / EAST HARTFORD, CT	SS / FPIF	NAVAIR	Oct 2014	Mar 2016	6	33,223.500	Y		Mar 2013
1.1.4) Engines/Eng Acc <sup>(†)</sup>		2015 <sup>(11)</sup>	UNITED TECH, PRATT & WHITNEY / EAST HARTFORD, CT	SS / FPIF	NAVAIR	Mar 2016	Mar 2017	6	32,492.667	Y		Mar 2014
1.1.4) Engines/Eng Acc <sup>(†)</sup>		2016 <sup>(12)</sup>	UNITED TECH, PRATT & WHITNEY / EAST HARTFORD, CT	SS / FPIF	NAVAIR	Mar 2016	Mar 2017	15	30,816.133	Y		Mar 2015
1.1.4) Engines/Eng Acc <sup>(†)</sup>		2017	UNITED TECH, PRATT & WHITNEY / EAST HARTFORD, CT	SS / FPIF	NAVAIR	Mar 2017	Mar 2018	16	31,114.500	Y		Mar 2016

<sup>(†)</sup> indicates the presence of a P-21

**Footnotes:**

<sup>(8)</sup> Max Capacity only applies through FY17. Additional capacity will be added each year to meet production requirements.

<sup>(9)</sup> LRIPs 9 and 10 being negotiated together. Award date has slipped to March 2016.

<sup>(10)</sup> LRIPs 9 and 10 being negotiated together. Award date has slipped to March 2016.

<sup>(11)</sup> LRIP 9/10 being negotiated together to return to schedule.

<sup>(12)</sup> LRIP 9/10 being negotiated together to return to schedule.

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**Exhibit P-21, Production Schedule:** PB 2017 Navy **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 01 / 1 **P-1 Line Item Number / Title:** 0152 / JSF STOVL **Item Number / Title [DODIC]:** 1 / Joint Strike Fighter - STOVL

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2013												Fiscal Year 2014												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1.1.1) Airframe/CFE <sup>(1)</sup>																															
Prior Years Deliveries: 9																															
	1	2013	NAVY	6	-	6																							6		
	1	2014	NAVY	6	-	6																							6		
	1	2015	NAVY	6	-	6																							6		
	1	2016	NAVY	15 <sup>(13)</sup>	-	15																							15		
	1	2017	NAVY	16 <sup>(14)</sup>	-	16																							16		
1.1.4) Engines/Eng Acc																															
Prior Years Deliveries: 3																															
	2	2012	NAVY	6	-	6																							6		
	2	2013	NAVY	6	-	6																							6		
	2	2014	NAVY	6	-	6																							6		
	2	2015	NAVY	6	-	6																							6		
	2	2016	NAVY	15 <sup>(15)</sup>	-	15																							15		
	2	2017	NAVY	16	-	16																							16		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2017 Navy **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 01 / 1 **P-1 Line Item Number / Title:** 0152 / JSF STOVL **Item Number / Title [DODIC]:** 1 / Joint Strike Fighter - STOVL

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2015													Fiscal Year 2016												BALANCE			
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
1.1.1) Airframe/CFE <sup>(1)</sup>																																	
Prior Years Deliveries: 9																																	
	1	2013	NAVY	6	-	6	-	-	-	-	-	-	-	-	-	-	1	2	1	-	1	1								-			
	1	2014	NAVY	6	-	6		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	2
	1	2015	NAVY	6	-	6																					A	-	-	-	-	-	6
	1	2016	NAVY	15 <sup>(13)</sup>	-	15																					A	-	-	-	-	-	15
	1	2017	NAVY	16 <sup>(14)</sup>	-	16																										16	
1.1.4) Engines/Eng Acc																																	
Prior Years Deliveries: 3																																	
	2	2012	NAVY	6	-	6	1	-	1	-	1	-	1	1	1																	-	
	2	2013	NAVY	6	-	6	A	-	-	-	-	-	-	-	3	3																-	
	2	2014	NAVY	6	-	6	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	2
	2	2015	NAVY	6	-	6																					A	-	-	-	-	-	6
	2	2016	NAVY	15 <sup>(15)</sup>	-	15																					A	-	-	-	-	-	15
	2	2017	NAVY	16	-	16																										16	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	E	A	A	U	J	J	A	S		
							T	V	C	N	B	R	P	Y	N	L	G	P	T				N	B	R	P	Y	N	L	G	P		

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**Exhibit P-21, Production Schedule:** PB 2017 Navy **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 01 / 1 **P-1 Line Item Number / Title:** 0152 / JSF STOVL **Item Number / Title [DODIC]:** 1 / Joint Strike Fighter - STOVL

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1.1.1) Airframe/CFE <sup>(1)</sup>																															
Prior Years Deliveries: 9																															
	1	2013	NAVY	6	6	-																							-		
	1	2014	NAVY	6	4	2	1	-	1																				-		
	1	2015	NAVY	6	-	6	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	1				-		
	1	2016	NAVY	15 <sup>(13)</sup>	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	12	
	1	2017	NAVY	16 <sup>(14)</sup>	-	16																							16		
1.1.4) Engines/Eng Acc																															
Prior Years Deliveries: 3																															
	2	2012	NAVY	6	6	-																							-		
	2	2013	NAVY	6	6	-																							-		
	2	2014	NAVY	6	4	2	-	1	-	1																			-		
	2	2015	NAVY	6	-	6	-	-	-	-	-	1	1	-	1	-	1	-	1	-	1	-	1						-		
	2	2016	NAVY	15 <sup>(15)</sup>	-	15	-	-	-	-	-	1	-	-	2	-	2	-	2	-	2	-	2	-	2	2	2		-		
	2	2017	NAVY	16	-	16																							5		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



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**Exhibit P-21, Production Schedule:** PB 2017 Navy **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 01 / 1 **P-1 Line Item Number / Title:** 0152 / JSF STOVL **Item Number / Title [DODIC]:** 1 / Joint Strike Fighter - STOVL

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019													Fiscal Year 2020													BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1.1.1) Airframe/CFE <sup>(1)</sup>																																	
Prior Years Deliveries: 9																																	
1		2013	NAVY	6	6	-																							-				
1		2014	NAVY	6	6	-																							-				
1		2015	NAVY	6	6	-																							-				
1		2016	NAVY	15 <sup>(13)</sup>	3	12	1	1	1	1	1	1	1	-	1	-	1	-	1	1									-				
1		2017	NAVY	16 <sup>(14)</sup>	-	16	-	-	-	1	1	1	1	1	2	1	2	1	2	1	2								-				
1.1.4) Engines/Eng Acc																																	
Prior Years Deliveries: 3																																	
2		2012	NAVY	6	6	-																							-				
2		2013	NAVY	6	6	-																							-				
2		2014	NAVY	6	6	-																							-				
2		2015	NAVY	6	6	-																							-				
2		2016	NAVY	15 <sup>(15)</sup>	15	-																							-				
2		2017	NAVY	16	11	5	1	1	1	1	1	1																-					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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**Exhibit P-21, Production Schedule:** PB 2017 Navy **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0152 / JSF STOVL	<b>Item Number / Title [DODIC]:</b> 1 / Joint Strike Fighter - STOVL
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	LOCKHEED MARTIN <sup>(8)</sup> - FT WORTH	4	7	14	8	6	22	28	-	6	15	21
2	UNITED TECH, PRATT & WHITNEY - EAST HARTFORD, CT	4	7	16	8	4	17	21	24	8	12	20

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Footnotes:**

- <sup>(8)</sup> Max Capacity only applies through FY17. Additional capacity will be added each year to meet production requirements.
- <sup>(13)</sup> Difference of 6 to be included with LRIP-11 deliveries in 2019: (1) April, (1) May, (1) Jul, (1) Sep, (1) Nov, and (1) Dec. Congressional adds not part of LRIP 10 RFP.
- <sup>(14)</sup> Additional capacity will be added to meet production requirements.
- <sup>(15)</sup> Difference of 6 to be included with LRIP-11 deliveries in 2018. Congressional adds not part of LRIP 10 RFP.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N: Aircraft Procurement, Navy / BA 01: Combat Aircraft / BSA 1: Combat Aircraft	<b>P-1 Line Item Number / Title:</b> 0152 / JSF STOVL
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<b>Program Elements for Code B Items:</b> 0204146M	<b>Other Related Program Elements:</b> 0204146N, 0207142F
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<b>Line Item MDAP/MAIS Code:</b> 198	<b>Item MDAP/MAIS Code(s):</b> 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
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	942.631	143.885	203.060	233.648	-	233.648	370.472	227.562	231.003	220.000	2,452.774	5,025.035
Net Procurement (P-1) ( <i>\$ in Millions</i> )	942.631	143.885	203.060	233.648	-	233.648	370.472	227.562	231.003	220.000	2,452.774	5,025.035
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>942.631</b>	<b>143.885</b>	<b>203.060</b>	<b>233.648</b>	<b>-</b>	<b>233.648</b>	<b>370.472</b>	<b>227.562</b>	<b>231.003</b>	<b>220.000</b>	<b>2,452.774</b>	<b>5,025.035</b>

**Description:**

Joint Strike Fighter (JSF) program is developing and fielding a family of aircraft that meets the needs of DoD and allies, with the F-35A Conventional Take Off and Landing (CTOL) variant, F-35B Short Take-Off and Vertical Landing (STOVL) variant and F-35C Carrier Variant (CV). The aircraft will have optimum commonality among three variants to minimize life cycle costs. This is a joint program with no executive service. Service Acquisition Executive (SAE) authority alternates between Department of Navy (DoN) and Department of Air Force and currently resides with the DAF. The F-35 is next generation of strike fighters to command and maintain global air superiority. Advance procurement funding will support Airframe and Engine Termination Liability, and long-lead parts and materials necessary to protect delivery schedule of FY18 JSF aircraft.

**Note:**

(1) F-35B USMC variant Budget Line Item 0152 was created in FY11, prior years budgets were reported under Budget Line Item 0147. The F-35C USN variant continues to report under Budget Line Item 0147. CY Advance Procurement for FY10 F-35B STOVL aircraft was included in the FY10 F-35C CV budget. The Advance Procurement Credit for FY10 F-35B STOVL aircraft was included in the FY11 F-35B STOVL budget.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N: Aircraft Procurement, Navy / BA 01: Combat Aircraft / BSA 1: Combat Aircraft	<b>P-1 Line Item Number / Title:</b> 0152 / JSF STOVL
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<b>Program Elements for Code B Items:</b> 0204146M	<b>Other Related Program Elements:</b> 0204146N, 0207142F
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<b>Line Item MDAP/MAIS Code:</b> 198	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	ID CD	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-10	1 / Joint Strike Fighter - STOVL		21 / 942.631	6 / 143.885	15 / 203.060	16 / 233.648	- / -	16 / 233.648
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>		<b>21 / 942.631</b>	<b>6 / 143.885</b>	<b>15 / 203.060</b>	<b>16 / 233.648</b>	<b>- / -</b>	<b>16 / 233.648</b>

\*Title represents the P-10 Title for Advance Procurement.

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

**Justification:**  
BASIS FOR FY17 BUDGET REQUEST:

FY17 Advance Procurement funding is requested for long-lead requirements necessary to support procurement of 20 STOVL JSF aircraft in FY18.

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2017 Navy					<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 01 / 1			<b>P-1 Line Item Number / Title:</b> 0152 / JSF STOVL			<b>P-5 Number / Title:</b> 1 / Joint Strike Fighter - STOVL	
<b>First System (2017) Award Date:</b> January 2014		<b>First System (2017) Completion Date:</b> January 2014			<b>Interval Between Systems:</b> 0 Months		
<b>Joint Strike Fighter - STOVL</b>		<b>Production Leadtime</b> <i>(Months)</i>	<b>Prior Years</b> <i>(Each)</i>	<b>FY 2015</b> <i>(Each)</i>	<b>FY 2016</b> <i>(Each)</i>	<b>FY 2017</b> <i>(Each)</i>	
Quantity			21	6	15	16	
<b>Cost Elements</b>		<b>When Required</b> <i>(Months)</i>	<b>Prior Years</b> <i>(\$ M)</i>	<b>FY 2015</b> <i>(\$ M)</i>	<b>FY 2016</b> <i>(\$ M)</i>	<b>FY 2017</b> <i>(\$ M)</i>	
<b>CFE</b>							
CFE-Airframe Termination Liability		0	702.782	106.455	151.765	172.900	
<b>Total: CFE</b>			<b>702.782</b>	<b>106.455</b>	<b>151.765</b>	<b>172.900</b>	
<b>GFE</b>							
GFE- Engines Termination Liability		0	239.849	37.430	51.295	60.748	
<b>Total: GFE</b>			<b>239.849</b>	<b>37.430</b>	<b>51.295</b>	<b>60.748</b>	
<b>Total Advance Procurement/Obligation Authority</b>			<b>942.631</b>	<b>143.885</b>	<b>203.060</b>	<b>233.648</b>	

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification):</b> PB 2017 Navy						<b>Date:</b> February 2016	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1506N / 01 / 1			<b>P-1 Line Item Number / Title:</b> 0152 / JSF STOVL			<b>P-5 Number / Title:</b> 1 / Joint Strike Fighter - STOVL	
<b>FY 2017</b>							
<b>Cost Elements</b>	<b>QPA (Each)</b>	<b>Production Leadtime (Months)</b>	<b>Unit Cost (\$ K)</b>	<b>Contract Forecast Date</b>	<b>2017 Qty (Each)</b>	<b>For FY</b>	<b>Total Cost Request (\$ M)</b>
<b>CFE</b>							
CFE-Airframe Termination Liability	1						172.900
<i>Total: CFE</i>							172.900
<b>GFE</b>							
GFE- Engines Termination Liability	1						60.748
<i>Total: GFE</i>							60.748
<b>Total Advance Procurement/Obligation Authority</b>							<b>233.648</b>

**Description:**  
Advance Procurement will be used to procure long lead items.