

**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 01: Combat Aircraft / BSA 1: Combat Aircraft	<b>P-1 Line Item Number / Title:</b> 0147 / Joint Strike Fighter CV
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0204146N	Other Related Program Elements: 0204146M, 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>	55	4	6	4	-	4	6	12	18	24	240	369
Gross/Weapon System Cost <i>(\$ in Millions)</i>	12,406.474	927.568	1,062.542	939.280	-	939.280	1,031.960	1,766.145	2,333.863	2,974.122	30,649.190	54,091.144
Less PY Advance Procurement <i>(\$ in Millions)</i>	1,295.129	79.016	29.400	48.630	-	48.630	80.908	167.898	183.003	294.002	3,797.778	5,975.764
Net Procurement (P-1) <i>(\$ in Millions)</i>	11,111.345	848.552	1,033.142	890.650	-	890.650	951.052	1,598.247	2,150.860	2,680.120	26,851.412	48,115.380
Plus CY Advance Procurement <i>(\$ in Millions)</i>	1,374.145	29.400	48.630	80.908	-	80.908	258.898	144.003	242.002	262.004	3,535.774	5,975.764
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>12,485.490</b>	<b>877.952</b>	<b>1,081.772</b>	<b>971.558</b>	<b>-</b>	<b>971.558</b>	<b>1,209.950</b>	<b>1,742.250</b>	<b>2,392.862</b>	<b>2,942.124</b>	<b>30,387.186</b>	<b>54,091.144</b>

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

Initial Spares <i>(\$ in Millions)</i>	-	28.386	59.914	26.076	-	26.076	76.886	41.847	52.858	303.608	Continuing	Continuing
Flyaway Unit Cost <i>(\$ in Thousands)</i>	192,792.964	170,634.500	132,829.500	166,829.500	-	166,829.500	134,769.000	124,382.000	116,522.833	118,063.042	124,329.179	135,017.808
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	225,572.255	231,892.000	177,090.333	234,820.000	-	234,820.000	171,993.333	147,178.750	129,659.056	123,921.750	127,704.958	146,588.466

**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 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 and F-35C CV were reported under same BLI (0147). Result is 29 F-35B aircraft (6 - FY08; 7 - FY09; and 16 - FY10) are included in the BLI 0147 budget. FY11 is the first year F-35B are reported under BLI 0152. CY Advance Procurement for FY10 F-35B aircraft was included in the FY10 F-35C CV budget. The Advance Procurement Credit for FY10 F-35B aircraft was included in the FY11 F-35B budget.

(2) Cost to Complete should be:

Gross Weapon System Cost- \$31,488.575

Prior Year AP- \$3,615.751

Net Procurement- \$27,872.824

CY Advanced Procurement- \$2,514.362

[P5 / Airframe/CFE]: 2 Congressional add a/c in FY16.

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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 01: Combat Aircraft / BSA 1: Combat Aircraft

**P-1 Line Item Number / Title:**  
0147 / Joint Strike Fighter CV

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0204146N **Other Related Program Elements:** 0204146M, 0207142F

**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-5	1 / Joint Strike Fighter-CV	P-5a, P-21		55 / 12,406.474	4 / 927.568	6 / 1,062.542	4 / 939.280	- / -	4 / 939.280
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>55 / 12,406.474</b>	<b>4 / 927.568</b>	<b>6 / 1,062.542</b>	<b>4 / 939.280</b>	<b>- / -</b>	<b>4 / 939.280</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 FY2017 BUDGET REQUEST: The FY17 budget provides funding for 4 Carrier Variant (CV) F-35C aircraft and associated equipment and support, associated sustainment and logistical requirements for DoN, and Advance Procurement for 6 Carrier Variant (CV) aircraft in FY 18.

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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> 0147 / Joint Strike Fighter CV	<b>Item Number / Title [DODIC]:</b> 1 / Joint Strike Fighter-CV

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)		55	4	6	4	-	4
Gross/Weapon System Cost (\$ in Millions)		12,406.474	927.568	1,062.542	939.280	-	939.280
Less PY Advance Procurement (\$ in Millions)		1,295.129	79.016	29.400	48.630	-	48.630
Net Procurement (P-1) (\$ in Millions)		11,111.345	848.552	1,033.142	890.650	-	890.650
Plus CY Advance Procurement (\$ in Millions)		1,374.145	29.400	48.630	80.908	-	80.908
<b>Total Obligation Authority (\$ in Millions)</b>		<b>12,485.490</b>	<b>877.952</b>	<b>1,081.772</b>	<b>971.558</b>	-	<b>971.558</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	28.386	59.914	26.076	-	26.076
Gross/Weapon System Unit Cost (\$ in Thousands)		225,572.255	231,892.000	177,090.333	234,820.000	-	234,820.000

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)
Flyaway Cost																		
Recurring Cost																		
1.1.1) Airframe/CFE <sup>(1)</sup>	77,945.945	55	4,287.027	98,048.750	4	392.195	86,092.000	6	516.552	86,974.250	4	347.897	-	-	-	86,974.250	4	347.897
1.1.2) CFE Electronics <sup>(2)</sup>	28,288.382	55	1,555.861	21,588.000	4	86.352	16,363.500	6	98.181	16,225.500	4	64.902	-	-	-	16,225.500	4	64.902
1.1.4) Engines/Eng Acc <sup>(1)</sup>	33,663.200	55	1,851.476	13,747.000	4	54.988	13,059.500	6	78.357	12,889.250	4	51.557	-	-	-	12,889.250	4	51.557
1.1.7) Rec Flyaway ECO	5,588.727	55	307.380	2,667.750	4	10.671	2,310.333	6	13.862	2,321.750	4	9.287	-	-	-	2,321.750	4	9.287
<b>Subtotal: Recurring Cost</b>	-	-	<b>8,001.744</b>	-	-	<b>544.206</b>	-	-	<b>706.952</b>	-	-	<b>473.643</b>	-	-	-	-	-	<b>473.643</b>
Non Recurring Cost																		
1.2.1) Non- Recur Cost <sup>(3)</sup>	-	-	2,313.789	-	-	112.283	-	-	58.245	-	-	172.351	-	-	-	-	-	172.351
1.2.2) Ancillary Equip <sup>(4)</sup>	-	-	288.080	-	-	26.049	-	-	31.780	-	-	21.324	-	-	-	-	-	21.324
<b>Subtotal: Non Recurring Cost</b>	-	-	<b>2,601.869</b>	-	-	<b>138.332</b>	-	-	<b>90.025</b>	-	-	<b>193.675</b>	-	-	-	-	-	<b>193.675</b>
<b>Subtotal: Flyaway Cost</b>	-	-	<b>10,603.613</b>	-	-	<b>682.538</b>	-	-	<b>796.977</b>	-	-	<b>667.318</b>	-	-	-	-	-	<b>667.318</b>
Support Cost																		
2.1) Airframe PGSE <sup>(5)</sup>	-	-	217.923	-	-	56.768	-	-	40.300	-	-	43.957	-	-	-	-	-	43.957
2.2) Engine PGSE	-	-	155.161	-	-	16.576	-	-	17.152	-	-	8.157	-	-	-	-	-	8.157
2.3) Avionics PGSE	-	-	237.705	-	-	39.265	-	-	59.446	-	-	55.483	-	-	-	-	-	55.483

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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> 0147 / Joint Strike Fighter CV	<b>Item Number / Title [DODIC]:</b> 1 / Joint Strike Fighter-CV
<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)
2.4) Pec Trng Eq	-	-	298.827	-	-	0.185	-	-	20.227	-	-	27.995	-	-	-	-	-	27.995
2.5) Pub/Tech Eq / ALIS (6)	-	-	104.907	-	-	20.425	-	-	3.334	-	-	7.895	-	-	-	-	-	7.895
2.6) Other ILS <sup>(7)</sup>	-	-	408.494	-	-	56.417	-	-	64.419	-	-	65.073	-	-	-	-	-	65.073
2.7) Prod Eng Supt	-	-	375.831	-	-	55.394	-	-	60.684	-	-	63.401	-	-	-	-	-	63.401
2.8) Misc Support	-	-	4.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support Cost</i>	-	-	<b>1,802.861</b>	-	-	<b>245.030</b>	-	-	<b>265.562</b>	-	-	<b>271.961</b>	-	-	-	-	-	<b>271.961</b>
<b>Gross/Weapon System Cost</b>	<b>225,572.255</b>	<b>55</b>	<b>12,406.474</b>	<b>231,892.000</b>	<b>4</b>	<b>927.568</b>	<b>177,090.333</b>	<b>6</b>	<b>1,062.542</b>	<b>234,820.000</b>	<b>4</b>	<b>939.280</b>	-	-	-	<b>234,820.000</b>	<b>4</b>	<b>939.280</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. Prior to FY11 STOVL and CV aircraft were combined under BLI 0147, of the 55 prior year aircraft total, 29 were STOVL. 2 Congressional add a/c in FY16.
- (2) Cost for CFE and Engines are lower due to the total quantity of aircraft. All cost savings are shared between the services and partner nations.
- (3) 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" part 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-35C in support of ramp up to full rate production.
- (4) 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.
- (5) Pequilar Ground Support Equipment (PGSE) costs driven by squadron standup and unit deployment package schedules. PB16 assumed the shore-based standup of one squadron at Yuma. PB17 captures two shore-based squadron standups at Yuma and Iwakuni.
- (6) Line 2.5 (Pubs / Tech Data / ALIS) budget consist entirely of the Automated Logistics Info System (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> 0147 / Joint Strike Fighter CV	<b>Item Number / Title [DODIC]:</b> 1 / Joint Strike Fighter-CV
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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	Sep 2015	4	115,750.000	Y		Apr 2012
1.1.1) Airframe/CFE <sup>(†)</sup>		2014	LOCKHEED MARTIN <sup>(8)</sup> / FT WORTH	SS / FPIF	NAVAIR	Nov 2014	Mar 2016	4	104,269.500	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	Apr 2017	4	98,048.750	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	Sep 2018	6	86,092.000	Y		Jan 2015
1.1.1) Airframe/CFE <sup>(†)</sup>		2017	LOCKHEED MARTIN <sup>(8)</sup> / FT WORTH	SS / FPIF	NAVAIR	Mar 2017	May 2019	4	86,974.250	Y		Jan 2016
1.1.4) Engines/Eng Acc <sup>(†)</sup>		2013	UNITED TECH, PRATT & WHITNEY / EAST HARTFORD, CT	SS / FPIF	NAVAIR	Oct 2014	May 2015	4	13,749.750	Y		Jun 2012
1.1.4) Engines/Eng Acc <sup>(†)</sup>		2014	UNITED TECH, PRATT & WHITNEY / EAST HARTFORD, CT	SS / FPIF	NAVAIR	Oct 2014	Oct 2015	4	13,898.750	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	4	13,747.000	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	6	13,059.500	Y		Mar 2015
1.1.4) Engines/Eng Acc <sup>(†)</sup>		2017	UNITED TECH, PRATT & WHITNEY / EAST HARTFORD, CT	SS / FPIF	NAVAIR	May 2017	May 2018	4	12,889.250	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> LRIP 9/10 being negotiated together to return to schedule.
- <sup>(10)</sup> LRIP 9/10 being negotiated together to return to schedule.
- <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:** 0147 / Joint Strike Fighter CV **Item Number / Title [DODIC]:** 1 / Joint Strike Fighter-CV

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: 47																																
	1	2013	NAVY	4	-	4	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	1							-			
	1	2014	NAVY	4	-	4		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	1
	1	2015	NAVY	4 <sup>(13)</sup>	-	4																								4		
	1	2016	NAVY	6 <sup>(14)</sup>	-	6																								6		
	1	2017	NAVY	4	-	4																								4		
1.1.4) Engines/Eng Acc																																
Prior Years Deliveries: 47																																
	2	2013	NAVY	4	-	4	A	-	-	-	-	-	-	1	-	2	1													-		
	2	2014	NAVY	4	-	4	A	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	1			-		
	2	2015	NAVY	4 <sup>(15)</sup>	-	4																								4		
	2	2016	NAVY	6 <sup>(16)</sup>	-	6																								6		
	2	2017	NAVY	4	-	4																								4		
							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	A	A	A	U	U	U	S		
							T	V	C	N	B	R	R	Y	N	L	G	P	T				N	B	R	R	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:** 0147 / Joint Strike Fighter CV **Item Number / Title [DODIC]:** 1 / Joint Strike Fighter-CV

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: 47																																			
1		2013	NAVY	4	4	-																													-
1		2014	NAVY	4	3	1	1																												-
1		2015	NAVY	4 <sup>(13)</sup>	-	4	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
1		2016	NAVY	6 <sup>(14)</sup>	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5		
1		2017	NAVY	4	-	4							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4		
1.1.4) Engines/Eng Acc																																			
Prior Years Deliveries: 47																																			
2		2013	NAVY	4	4	-																												-	
2		2014	NAVY	4	4	-																												-	
2		2015	NAVY	4 <sup>(15)</sup>	-	4	-	-	-	-	-	1	1	1	1																			-	
2		2016	NAVY	6 <sup>(16)</sup>	-	6	-	-	-	-	-	1	1	1	1	1	1																	-	
2		2017	NAVY	4	-	4							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 01 / 1 **P-1 Line Item Number / Title:** 0147 / Joint Strike Fighter CV **Item Number / Title [DODIC]:** 1 / Joint Strike Fighter-CV

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: 47																															
1		2013	NAVY	4	4	-																							-		
1		2014	NAVY	4	4	-																							-		
1		2015	NAVY	4 <sup>(13)</sup>	2	2	-	-	-	1	1																		-		
1		2016	NAVY	6 <sup>(14)</sup>	1	5	-	-	-	-	-	1	1	1	1	1													-		
1		2017	NAVY	4	-	4	-	-	-	-	-	-	-	1	-	1	-	1	-	1									-		
1.1.4) Engines/Eng Acc																															
Prior Years Deliveries: 47																															
2		2013	NAVY	4	4	-																							-		
2		2014	NAVY	4	4	-																							-		
2		2015	NAVY	4 <sup>(15)</sup>	4	-																							-		
2		2016	NAVY	6 <sup>(16)</sup>	6	-																							-		
2		2017	NAVY	4	2	2	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> 0147 / Joint Strike Fighter CV	<b>Item Number / Title [DODIC]:</b> 1 / Joint Strike Fighter-CV
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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	2	3	7	8	6	22	28	-	6	12	18
2	UNITED TECH, PRATT & WHITNEY - EAST HARTFORD, CT	2	3	7	8	4	17	21	-	7	12	19

"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> Balance of 2 delivered in LRIP 11: (1) Jan 2019 and (1) Feb 2019. Delay due to lack of Advance Procurement funding.
- <sup>(14)</sup> Balance of 4 will be delivered with LRIP 11. (1) March 2019, (1) April 2019, (1) May 2019 (1), and June 2019. Delay due to timing of RFP release and lack of Advance Procurement funding.
- <sup>(15)</sup> First delivery will not be until Jan 2018
- <sup>(16)</sup> LRIP 9 and 10 being negotiated together to return to schedule. First delivery will not be until Jan 2018

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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> 0147 / Joint Strike Fighter CV
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<b>Program Elements for Code B Items:</b> 0204146N	<b>Other Related Program Elements:</b> 0204146M, 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> )	1,374.145	29.400	48.630	80.908	-	80.908	258.898	144.003	242.002	262.004	3,535.774	5,975.764
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,374.145	29.400	48.630	80.908	-	80.908	258.898	144.003	242.002	262.004	3,535.774	5,975.764
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,374.145</b>	<b>29.400</b>	<b>48.630</b>	<b>80.908</b>	<b>-</b>	<b>80.908</b>	<b>258.898</b>	<b>144.003</b>	<b>242.002</b>	<b>262.004</b>	<b>3,535.774</b>	<b>5,975.764</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 (DAF) and currently resides with the Navy. 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 FY 2018 JSF aircraft buy.

**Notes:**

(1) Prior to FY11, F-35B USMC variant was reported against Budget Line Item 0147. The F-35B USMC variant now reports under Budget Line Item 0152. 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> 0147 / Joint Strike Fighter CV
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<b>Program Elements for Code B Items:</b> 0204146N	<b>Other Related Program Elements:</b> 0204146M, 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 (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-10	1 / Joint Strike Fighter-CV		55 / 1,374.145	4 / 29.400	6 / 48.630	4 / 80.908	- / -	4 / 80.908
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>		<b>55 / 1,374.145</b>	<b>4 / 29.400</b>	<b>6 / 48.630</b>	<b>4 / 80.908</b>	<b>- / -</b>	<b>4 / 80.908</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 FY 2017 BUDGET REQUEST:

FY17 Advance Procurement funding is requested for long-lead requirements associated with procurement of 6 Carrier Variant (CV) 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> 0147 / Joint Strike Fighter CV			<b>P-5 Number / Title:</b> 1 / Joint Strike Fighter-CV	
<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-CV</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			55	4	6	4	
<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	1,234.996	27.040	43.509	72.008	
<b>Total: CFE</b>			<b>1,234.996</b>	<b>27.040</b>	<b>43.509</b>	<b>72.008</b>	
<b>GFE</b>							
G.F.E Engines Termination Liability		0	139.149	2.360	5.121	8.900	
<b>Total: GFE</b>			<b>139.149</b>	<b>2.360</b>	<b>5.121</b>	<b>8.900</b>	
<b>Total Advance Procurement/Obligation Authority</b>			<b>1,374.145</b>	<b>29.400</b>	<b>48.630</b>	<b>80.908</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> 0147 / Joint Strike Fighter CV			<b>P-5 Number / Title:</b> 1 / Joint Strike Fighter-CV	
<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						72.008
<i>Total: CFE</i>							72.008
<b>GFE</b>							
G.F.E Engines Termination Liability	1						8.900
<i>Total: GFE</i>							8.900
<b>Total Advance Procurement/Obligation Authority</b>							<b>80.908</b>

**Description:**  
 Advance procurement funding in FY2017 will support Airframe and Engine Termination Liability, long-lead parts, and materials necessary to protect the delivery schedule of the FY18 JSF aircraft buy.  
 Note: PLT reflects the total lead time necessary to support FY 18 production.  
 Note: T.L. is Termination Liability