

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 01: Combat Aircraft / BSA 1: Combat Aircraft	P-1 Line Item Number / Title: 0164 / V-22 (Medium Lift)
--	---

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

Line Item MDAP/MAIS Code: 212	Item MDAP/MAIS Code(s):
--------------------------------------	--------------------------------

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>)	263	19	19	19	-	19	18	8	8	8	46	408
Gross/Weapon System Cost (<i>\$ in Millions</i>)	22,743.959	1,443.407	1,540.459	1,503.863	-	1,503.863	1,490.269	856.515	945.864	867.852	4,897.152	36,289.340
Less PY Advance Procurement (<i>\$ in Millions</i>)	1,305.977	86.258	59.359	67.508	-	67.508	62.269	117.944	154.741	20.050	246.807	2,120.913
Net Procurement (P1) (<i>\$ in Millions</i>)	21,437.982	1,357.149	1,481.100	1,436.355	-	1,436.355	1,428.000	738.571	791.123	847.802	4,650.345	34,168.427
Plus CY Advance Procurement (<i>\$ in Millions</i>)	1,438.485	53.113	45.920	43.853	-	43.853	117.944	154.741	20.050	41.055	205.752	2,120.913
Total Obligation Authority (<i>\$ in Millions</i>)	22,876.467	1,410.262	1,527.020	1,480.208	-	1,480.208	1,545.944	893.312	811.173	888.857	4,856.097	36,289.340

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

Initial Spares (<i>\$ in Millions</i>)	-	0.677	-	0.479	-	0.479	0.033	-	-	-	74.661	75.850
Flyaway Unit Cost (<i>\$ in Thousands</i>)	74,480.072	68,459.211	71,916.526	72,356.474	-	72,356.474	74,801.278	86,653.000	95,859.250	98,537.250	100,566.217	78,066.265
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The V-22 is a tilt-rotor vertical takeoff and landing aircraft currently being produced for joint service application. The program provides an aircraft to meet the amphibious/vertical assault needs of the Marine Corps, the strike rescue needs of the Navy, and supplements USSOCOM special mission aircraft. The aircraft is capable of flying 2,100 miles with one refueling, and gives the Services the advantage of a Vertical/Short Takeoff and Landing (V/STOL) aircraft that can rapidly self-deploy to any location in the world.

The current procurement objective is 460: 360 MV-22 Marine Corps aircraft, 48 Navy aircraft, and 52 CV-22 aircraft for USSOCOM (funded by USSOCOM and the Air Force). The program successfully completed Milestone III in the 1st Quarter of 2006, and IOC in March of 2007.

The production of the Navy's variant will begin during the FYDP. The configuration of this variant is a modification of the MV-22 and will perform the Carrier Onboard Delivery (COD) mission and include: (1) external conformal fuel tanks to provide the capability to meet the range requirements that the COD mission demands, (2) a high frequency radio to transmit/receive beyond line of sight over water, and (3) a public address system for use while transporting passengers.

P-40 corrections:

Prior Years:
Initial Spares: \$790.319.

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 01: Combat Aircraft / BSA 1: Combat Aircraft	P-1 Line Item Number / Title: 0164 / V-22 (Medium Lift)
--	---

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

Line Item MDAP/MAIS Code: 212	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 / 0164 MV-22	P-5, P-5a, P-21		263 / 22,743.959	19 / 1,443.407	19 / 1,540.459	19 / 1,503.863	- / -	19 / 1,503.863
Total Gross/Weapon System Cost			263 / 22,743.959	19 / 1,443.407	19 / 1,540.459	19 / 1,503.863	- / -	19 / 1,503.863

*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: Provides funding to procure 19 MV-22's with support.

 The V-22 Program is currently executing a Multi-Year Procurement (MYP) contract for production aircraft in FY 2013-FY 2017.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 01 / 1	P-1 Line Item Number / Title: 0164 / V-22 (Medium Lift)	Item Number / Title [DODIC]: 1 / 0164 MV-22

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (<i>Units in Each</i>)		263	19	19	19	-	19
Gross/Weapon System Cost (<i>\$ in Millions</i>)		22,743.959	1,443.407	1,540.459	1,503.863	-	1,503.863
Less PY Advance Procurement (<i>\$ in Millions</i>)		1,305.977	86.258	59.359	67.508	-	67.508
Net Procurement (P1) (<i>\$ in Millions</i>)		21,437.982	1,357.149	1,481.100	1,436.355	-	1,436.355
Plus CY Advance Procurement (<i>\$ in Millions</i>)		1,438.485	53.113	45.920	43.853	-	43.853
Total Obligation Authority (<i>\$ in Millions</i>)		22,876.467	1,410.262	1,527.020	1,480.208	-	1,480.208
<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>)		-	0.677	-	0.479	-	0.479
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)		86,478.932	75,968.789	81,076.789	79,150.684	-	79,150.684

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 ⁽¹⁾ (1)	64,080.772	263	16,853.243	61,486.045	19	1,168.235	64,252.925	19	1,220.806	65,602.227	19	1,246.442	-	-	-	65,602.227	19	1,246.442
1.1.2) GFE Electronics (2)	-	-	213.564	-	-	15.251	-	-	26.252	-	-	25.832	-	-	-	-	-	25.832
1.1.3) Engines/Eng Acc ⁽¹⁾	2,025.679	526	1,065.507	2,254.132	38	85.657	2,308.221	38	87.712	2,359.000	38	89.642	-	-	-	2,359.000	38	89.642
1.1.4) Other GFE	-	-	47.322	-	-	3.719	-	-	5.361	-	-	3.919	-	-	-	-	-	3.919
1.1.5) Recurring Flyaway ECO	-	-	147.130	-	-	8.155	-	-	9.909	-	-	6.339	-	-	-	-	-	6.339
Subtotal: Recurring Cost	-	-	18,326.766	-	-	1,281.017	-	-	1,350.040	-	-	1,372.174	-	-	-	-	-	1,372.174
Non Recurring Cost																		
1.2.1) Non-Recurring Cost	-	-	854.525	-	-	5.710	-	-	7.624	-	-	2.599	-	-	-	-	-	2.599
1.2.2) Ancillary Equipment	-	-	113.124	-	-	13.998	-	-	8.750	-	-	-	-	-	-	-	-	-
1.2.3) Other	-	-	293.844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	1,261.493	-	-	19.708	-	-	16.374	-	-	2.599	-	-	-	-	-	2.599
Subtotal: Flyaway Cost	-	-	19,588.259	-	-	1,300.725	-	-	1,366.414	-	-	1,374.773	-	-	-	-	-	1,374.773
Support Cost																		
2.1) Airframe PGSE	-	-	405.105	-	-	13.958	-	-	19.226	-	-	0.452	-	-	-	-	-	0.452

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 01 / 1	P-1 Line Item Number / Title: 0164 / V-22 (Medium Lift)	Item Number / Title [DODIC]: 1 / 0164 MV-22
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
2.2) Engine PGSE	-	-	28.717	-	-	6.722	-	-	4.012	-	-	0.471	-	-	-	-	-	0.471
2.3) Avionics PGSE	-	-	213.567	-	-	6.662	-	-	2.441	-	-	0.250	-	-	-	-	-	0.250
2.4) Pec Trng Eq	-	-	420.981	-	-	6.623	-	-	6.569	-	-	3.588	-	-	-	-	-	3.588
2.5) Pub/Tech Eq	-	-	112.482	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.6) Prod Eng Supt ⁽³⁾	-	-	921.503	-	-	53.356	-	-	87.385	-	-	75.805	-	-	-	-	-	75.805
2.7) Other ILS	-	-	821.945	-	-	55.361	-	-	54.412	-	-	48.524	-	-	-	-	-	48.524
2.8) Common SE	-	-	231.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support Cost</i>	-	-	3,155.700	-	-	142.682	-	-	174.045	-	-	129.090	-	-	-	-	-	129.090
Gross/Weapon System Cost	86,478.932	263	22,743.959	75,968.789	19	1,443.407	81,076.789	19	1,540.459	79,150.684	19	1,503.863	-	-	-	79,150.684	19	1,503.863

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

Footnotes:

(1) Airframe/CFE: [General] Executing V-22 Multi-Year for FY 2013 - FY 2017.

(2) GFE Electronics: [FY 2015] Increase due the incorporation of the APR-39C(V)2 Radar Warning Receiver.

(3) \$5.6 million in FY17 will provide Production Engineering Support to address range, HF radio, and PA system for the Navy's variant.

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 01 / 1	P-1 Line Item Number / Title: 0164 / V-22 (Medium Lift)	Item Number / Title [DODIC]: 1 / 0164 MV-22
---	---	---

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 ^(†)		2008 (4)	Bell Boeing / Amarillo, TX	SS / FPIF	NAVAIR	Feb 2008	Dec 2012	2	58,079.546	Y		Jul 2006
1.1.1) Airframe/CFE ^(†)		2011 (5)	Bell Boeing / Amarillo, TX	SS / FPIF	NAVAIR	Oct 2010	Jan 2013	30	58,870.627	Y		Jul 2006
1.1.1) Airframe/CFE ^(†)		2012	Bell Boeing / Amarillo, TX	SS / FPIF	NAVAIR	Nov 2011	Nov 2013	30	60,501.200	Y		Jul 2006
1.1.1) Airframe/CFE ^(†)		2013	Bell Boeing / Amarillo, TX	SS / FPIF	NAVAIR	Dec 2012	Dec 2014	18	61,097.992	Y		Feb 2011
1.1.1) Airframe/CFE ^(†)		2014	Bell Boeing / Amarillo, TX	SS / FPIF	NAVAIR	Nov 2013	Nov 2015	19	61,486.045	Y		Feb 2011
1.1.1) Airframe/CFE ^(†)		2015	Bell Boeing / Amarillo, TX	SS / FPIF	NAVAIR	Dec 2014	Dec 2016	19	64,252.925	Y		Feb 2011
1.1.1) Airframe/CFE ^(†)		2016	Bell Boeing / Amarillo, TX	SS / FPIF	NAVAIR	Dec 2015	Dec 2017	19	65,602.227	Y		Feb 2011
1.1.3) Engines/Eng Acc ^(†)		2012	Allison Engine Co. (Rolls Royce) / Indianapolis, IN	SS / FFP	NAVAIR	Jan 2012	Apr 2013	60	2,156.017	Y		Dec 2010
1.1.3) Engines/Eng Acc ^(†)		2013	Allison Engine Co. (Rolls Royce) / Indianapolis, IN	SS / FFP	NAVAIR	Jan 2013	Mar 2014	36	2,206.250	Y		Dec 2010
1.1.3) Engines/Eng Acc ^(†)		2014	Allison Engine Co. (Rolls Royce) / Indianapolis, IN	SS / FFP	NAVAIR	Jan 2014	Mar 2015	38	2,254.132	Y		Dec 2010
1.1.3) Engines/Eng Acc ^(†)		2015	Allison Engine Co. (Rolls Royce) / Indianapolis, IN	SS / FFP	NAVAIR	Jan 2015	Mar 2016	38	2,308.221	Y		Dec 2010
1.1.3) Engines/Eng Acc ^(†)		2016	Allison Engine Co. (Rolls Royce) / Indianapolis, IN	SS / FFP	NAVAIR	Jan 2016	Mar 2017	38	2,359.000	Y		Dec 2010

^(†) indicates the presence of a P-21

Footnotes:

⁽⁴⁾ FY 2008 included 2 GWOT funded MV-22 aircraft and 5 GWOT funded CV-22 aircraft. The span of delivery of aircraft in production lots with supplemental funded aircraft (i.e. GWOT and OCO) will exceed 12 months due to production capacity and necessity to meet currently scheduled MV-22 and CV-22 deliveries. In addition, the lack of advance procurement funding for supplemental aircraft means there is a 3-year (vice 2-year) production lead time.

⁽⁵⁾ FY 2011 included 1 OCO funded CV-22 aircraft with a planned delivery of May 2015.

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 01 / 1 **P-1 Line Item Number / Title:** 0164 / V-22 (Medium Lift) **Item Number / Title [DODIC]:** 1 / 0164 MV-22

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2010													Fiscal Year 2011														
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 0 9	BAL D U E A S O F 1 O C T	Calendar Year 2010													Calendar Year 2011												
							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	B A L	
1.1.1) Airframe/CFE ⁽¹⁾																																
Prior Years Deliveries: 183																																
1	2008	NAVY		2 ⁽⁶⁾	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
1	2008	AF (‡)		2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
1	2008	Total		4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
1	2011	NAVY		30 ⁽⁷⁾	-	30														A	-	-	-	-	-	-	-	-	-	-	30	
1	2011	AF (‡)		5	-	5														A	-	-	-	-	-	-	-	-	-	-	5	
1	2011	Total		35	-	35														-	-	-	-	-	-	-	-	-	-	-	35	
1	2012	NAVY		30	-	30																									30	
1	2012	AF (‡)		5	-	5																									5	
1	2012	Total		35	-	35																									35	
1	2013	NAVY		18 ⁽⁸⁾	-	18																									18	
1	2013	AF (‡)		4	-	4																									4	
1	2013	Total		22	-	22																									22	
1	2014	NAVY		19 ⁽⁹⁾	-	19																									19	
1	2014	AF (‡)		4	-	4																									4	
1	2014	Total		23	-	23																									23	
1	2015	NAVY		19	-	19																									19	
1	2016	NAVY		19	-	19																									19	
1.1.3) Engines/Eng Acc																																
Prior Years Deliveries: 430																																
2	2012	NAVY		60	-	60																									60	
2	2012	AF (‡)		10	-	10																									10	
2	2012	Total		70	-	70																									70	
2	2013	NAVY		36 ⁽¹⁰⁾	-	36																									36	
2	2013	AF (‡)		4	-	4																									4	
2	2013	Total		40	-	40																									40	
2	2014	NAVY		38 ⁽¹¹⁾	-	38																									38	
2	2014	AF (‡)		8	-	8																									8	
2	2014	Total		46	-	46																									46	
							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	B A L	

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Navy																		Date: February 2015											
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 01 / 1										P-1 Line Item Number / Title: 0164 / V-22 (Medium Lift)										Item Number / Title [DODIC]: 1 / 0164 MV-22									

Cost Elements (Units in Each)				Fiscal Year 2014														Fiscal Year 2015																		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014														Calendar Year 2015															
							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	B A L					
1.1.1) Airframe/CFE ⁽¹⁾																																				
Prior Years Deliveries: 183																																				
1	2008	NAVY		2 ⁽⁶⁾	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1	2008	AF (‡)		2	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1	2008	Total		4	2	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1	2011	NAVY		30 ⁽⁷⁾	24	6	3	2	1																											
1	2011	AF (‡)		5	4	1	1	-	-																											
1	2011	Total		35	28	7	4	2	1																											
1	2012	NAVY		30	-	30	-	1	2	2	3	3	2	3	2	3	3	2	4																	
1	2012	AF (‡)		5	-	5	-	-	-	1	-	-	1	-	1	-	1	1	-																	
1	2012	Total		35	-	35	-	1	2	3	3	3	3	3	3	3	4	3	4																	
1	2013	NAVY		18 ⁽⁸⁾	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	2	2	1	2	1	2	1	2	1	2	1	2	
1	2013	AF (‡)		4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	1	-	-	-	-	1	
1	2013	Total		22	-	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	3
1	2014	NAVY		19 ⁽⁹⁾	-	19		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
1	2014	AF (‡)		4	-	4		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
1	2014	Total		23	-	23		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	
1	2015	NAVY		19	-	19															A	-	-	-	-	-	-	-	-	-	-	-	-	-	19	
1	2016	NAVY		19	-	19																													19	
1.1.3) Engines/Eng Acc																																				
Prior Years Deliveries: 430																																				
2	2012	NAVY		60	38	22	6	5	6	5																										
2	2012	AF (‡)		10	6	4	1	2	1	-																										
2	2012	Total		70	44	26	7	7	7	5																										
2	2013	NAVY		36 ⁽¹⁰⁾	-	36	-	-	-	-	-	4	4	2	4	1	4	4	4	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
2	2013	AF (‡)		4	-	4	-	-	-	-	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	2013	Total		40	-	40	-	-	-	-	-	4	4	4	4	3	4	4	4	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
2	2014	NAVY		38 ⁽¹¹⁾	-	38						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	
2	2014	AF (‡)		8	-	8						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
2	2014	Total		46	-	46						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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	B A L					

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 01 / 1	P-1 Line Item Number / Title: 0164 / V-22 (Medium Lift)	Item Number / Title [DODIC]: 1 / 0164 MV-22
---	---	---

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015													
							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	B A L	
	2	2015	NAVY	38	-	38														A	-	-	-	-	-	-	-	-	-	-	-	38
	2	2016	NAVY	38	-	38																										38
							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	B A L	

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 01 / 1	P-1 Line Item Number / Title: 0164 / V-22 (Medium Lift)	Item Number / Title [DODIC]: 1 / 0164 MV-22
---	---	---

MFR Ref #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Bell Boeing - Amarillo, TX	16	25	44	19	3	24	27	-	2	24	26
2	Allison Engine Co. (Rolls Royce) - Indianapolis, IN	-	-	88	9	3	14	17	3	3	14	17

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"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:

(6) FY 2008 included 2 GWOT funded MV-22 aircraft. Deliveries occurred in Dec 2012 and May 2014. FY2008 also included 5 OCO funded CV-22 aircraft with all 5 aircraft having been delivered by Nov 2013. The span of delivery of aircraft in production lots with supplemental funded aircraft (i.e. GWOT and OCO) exceed the 12 months due to production capacity and necessity to meet currently scheduled MV-22 and CV-22 deliveries. In addition, the lack of advance procurement funding for supplemental aircraft means there is a 3-year (vice 2-year) production lead time.

(7) FY 2011 included 1 OCO funded CV-22 aircraft with a planned delivery of MAY 2015.

(8) Extended delivery cycle for MV-22 aircraft delivery for FY2013 Congressional Add (Operational Loss Aircraft)

(9) Extended delivery cycle for CV-22 aircraft delivery for FY2014 Congressional Add (Operational Loss Aircraft)

(10) Extended delivery cycle for MV-22 engine delivery for FY2013 Congressional Add (Operational Loss Aircraft).

(11) Extended delivery cycle for CV-22 engine delivery for FY2014 Congressional Add (Operational Loss Aircraft).

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 01: Combat Aircraft / BSA 1: Combat Aircraft	P-1 Line Item Number / Title: 0164 / V-22 (Medium Lift)
--	---

Program Elements for Code B Items:	Other Related Program Elements:
---	--

Line Item MDAP/MAIS Code: 212	Item MDAP/MAIS Code(s):
--------------------------------------	--------------------------------

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
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,438.485	53.113	45.920	43.853	-	43.853	117.944	154.741	20.050	41.055	205.752	2,120.913
Net Procurement (P1) <i>(\$ in Millions)</i>	1,438.485	53.113	45.920	43.853	-	43.853	117.944	154.741	20.050	41.055	205.752	2,120.913
Total Obligation Authority <i>(\$ in Millions)</i>	1,438.485	53.113	45.920	43.853	-	43.853	117.944	154.741	20.050	41.055	205.752	2,120.913

Description:

The V-22 is a tilt-rotor vertical takeoff and landing aircraft currently being produced for joint service application. The program provides an aircraft to meet the amphibious/vertical assault needs of the Marine Corps, the strike rescue needs of the Navy, and supplements USSOCOM special mission aircraft. The aircraft is capable of flying 2,100 miles with one refueling, and gives the Services the advantage of a Vertical/Short Takeoff and Landing (V/STOL) aircraft that can rapidly self-deploy to any location in the world.

The current procurement objective is 460: 360 MV-22 Marine Corps aircraft, 48 Navy aircraft, and 52 CV-22 aircraft for USSOCOM (funded by USSOCOM and the Air Force). The program successfully completed Milestone III in the 1st Quarter of 2006, and IOC in March of 2007.

The Advance Procurement (AP) funding will be used to procure long lead CFE items (24 months or greater production lead time) such as raw materials (inclusive of steel, titanium, aluminum, composites), forgings, bearings, fittings, panel assemblies, actuators, liners, bracket assemblies, retainer assemblies, bushings, rib assemblies, frame assemblies, pump assemblies, buffers, empennage assemblies, unions, flight control computers, lightweight inertial navigation system, skin assemblies, advanced mission computers, tube assemblies, gearboxes, and airframe structural components. V-22 lead times for components have been as high as 40.6 months (empennage assemblies). Other specific material lead items are 130 degree heavy duty hex drive bolts (39.0M), remote transmitters (36.6M), drag strut actuator assemblies (35.8M), and steering unit supplier pull (35M). All of these long lead items are essential to maintaining the current schedule.

Any reduction or delay in approval of advance procurement funding for CFE Airframe would result in a significant cost increase and schedule delay to the V-22 program.

The production of the Navy's variant will begin during the FYDP. The configuration of this variant is a modification of the MV-22 and will perform the Carrier Onboard Delivery (COD) mission and include: (1) external conformal fuel tanks to provide the capability to meet the range requirements that the COD mission demands, (2) a high frequency radio to transmit/receive beyond line of sight over water, and (3) a public address system for use while transporting passengers.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 01: Combat Aircraft / BSA 1: Combat Aircraft	P-1 Line Item Number / Title: 0164 / V-22 (Medium Lift)
--	---

Program Elements for Code B Items:	Other Related Program Elements:
---	--

Line Item MDAP/MAIS Code: 212	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 / 0164 MV-22	P-10		- / 1,438.485	- / 53.113	- / 45.920	- / 43.853	- / -	- / 43.853
Total Gross/Weapon System Cost			- / 1,438.485	- / 53.113	- / 45.920	- / 43.853	- / -	- / 43.853

*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:
 FY 2016 Advance Procurement funding is requested for the long-lead requirements associated with the procurement of 18 MV-22 aircraft in FY 2017. Airframe/CFE requirements are calculated on a termination liability basis, reflecting contractor's funding requirements for procurement of long lead parts and materials necessary to protect the delivery schedule.

UNCLASSIFIED

Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2016 Navy					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 01 / 1			P-1 Line Item Number / Title: 0164 / V-22 (Medium Lift)			P-5 Number / Title: 1 / 0164 MV-22	
First System (2016) Award Date: November 2013		First System (2016) Completion Date: October 2015			Interval Between Systems: 24 Months		
0164 MV-22		Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2014 <i>(Each)</i>	FY 2015 <i>(Each)</i>	FY 2016 <i>(Each)</i>	
Quantity			263	19	19	19	
Cost Element		When Rqd <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2014 <i>(\$ M)</i>	FY 2015 <i>(\$ M)</i>	FY 2016 <i>(\$ M)</i>	
CFE							
Prior Years EOQ/Long Lead		0	1,128.530	-	-	-	
FY13 Long Lead		0	59.073	-	-	-	
FY14 Long Lead		0	62.484	-	-	-	
FY14 EOQ		0	18.050	-	-	-	
FY15 Long Lead		0	-	40.017	-	-	
FY15 EOQ		0	15.690	-	-	-	
FY16 Long Lead		0	-	-	40.410	-	
FY16 EOQ		0	15.690	5.898	-	-	
FY17 Long Lead		0	-	-	-	38.590	
FY17 EOQ		0	14.870	3.546	-	-	
<i>Total: CFE</i>			<i>1,314.387</i>	<i>49.461</i>	<i>40.410</i>	<i>38.590</i>	
GFE							
GFE Other		0	86.028	-	-	-	
GFE Com/Nav		0	18.150	1.770	3.000	2.579	
GFE EW		0	19.920	1.882	2.510	2.684	
<i>Total: GFE</i>			<i>124.098</i>	<i>3.652</i>	<i>5.510</i>	<i>5.263</i>	
Total Advance Procurement/Obligation Authority			1,438.485	53.113	45.920	43.853	

UNCLASSIFIED

Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 01 / 1	P-1 Line Item Number / Title: 0164 / V-22 (Medium Lift)	P-5 Number / Title: 1 / 0164 MV-22
---	---	--

Cost Elements	QPA <i>(Each)</i>	FY 2016					Total Cost Request <i>(\$ M)</i>
		Production Leadtime <i>(Months)</i>	Unit Cost <i>(\$ K)</i>	Contract Forecast Date	2016 Qty <i>(Each)</i>	For FY	
CFE							
Prior Years EOQ/Long Lead	-						-
FY13 Long Lead	-						-
FY14 Long Lead	-						-
FY14 EOQ	-						-
FY15 Long Lead	-						-
FY15 EOQ	-						-
FY16 Long Lead	-						-
FY16 EOQ	-						-
FY17 Long Lead	-						38.590
FY17 EOQ	-						-
<i>Total: CFE</i>							38.590
GFE							
GFE Other	-						-
GFE Com/Nav	-						2.579
GFE EW	-						2.684
<i>Total: GFE</i>							5.263
Total Advance Procurement/Obligation Authority							43.853

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