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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604810N / (U) <i>Joint Strike Fighter Follow On Develop - Navy</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	6.000	10.302	21.200	63.387	-	63.387	133.686	144.003	147.646	150.902	Continuing	Continuing
2936: <i>JSF Follow On Development - Navy</i>	6.000	10.302	21.200	63.387	-	63.387	133.686	144.003	147.646	150.902	Continuing	Continuing

Program MDAP/MAIS Code: 198

A. Mission Description and Budget Item Justification

Decrease in (U)JOINT STRIKE FIGHTER FOLLOW ON DEVELOP-NAVY by \$2.661M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

The F-35 Joint Strike Fighter (JSF) Program will develop and field an affordable, highly common family of next generation strike aircraft for the United States Navy, Air Force, Marine Corps and allies. The three variants are the F-35A Conventional Takeoff and Landing; F-35B Short Take Off and Vertical Landing; and the F-35C Aircraft Carrier suitable variant. Maximum commonality among the variants, consistent with National Disclosure Policy, will minimize life cycle costs. As Initial Operational Capability (IOC) delivers for each variant during System Development and Demonstration (SDD), planning and initial systems engineering for the Follow-on Development (FoD) continues.

FoD capability requirements were initiated through ongoing Service-led operational analysis of warfighting gaps identified in the Fifth Generation Fighter Modernization Initial Capabilities Document (ICD), and through F-35 JSF Program Block 4 Mission Decomposition analysis completed in FY2014. These analyses serve as basis for the F-35 FoD Block 4 Capabilities Development Document (CDD), staffed through the Air Force Requirements Oversight Council (AFROC) and signed by the USAF Chief of Staff in January 2015. JROC approval of the CDD is expected in FY2016. Pre-modernization activities in FY2016 and FY2017 include systems engineering, risk reduction, and FoD facility upgrades to support an initial Block 4 fleet availability in 2020.

The United Kingdom, Italy, Netherlands, Turkey, Canada, Australia, Denmark and Norway are participants in F-35 modernization. The program shown here reflects USN, USMC, USAF, and International Partner funding. Funding at the accomplishment/planned program level is reported as the total of all service and partners as these activities support all aircraft variants. Foreign Military Sales are ongoing separately.

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B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	10.622	47.579	103.564	-	103.564
Current President's Budget	10.302	21.200	63.387	-	63.387
Total Adjustments	-0.320	-26.379	-40.177	-	-40.177
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-26.379			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.320	0.000			
• Program Adjustments	0.000	0.000	-40.202	-	-40.202
• Rate/Misc Adjustments	0.000	0.000	0.025	-	0.025

Change Summary Explanation

Schedule changed to reflect direction resulting from Material Development Decision (MDD) and receipt of F-35 Lightning II Joint Strike Fighter Block 4 Acquisition Decision Memorandum (19 August 2015). As a result the schedule changes were:

Requirements: Final CDD (JROC) changed from 1st Quarter 2016 to 3rd Quarter 2016 start to end

Acquisition: EMD RFP Decision changed from 1st Quarter 2016 to 3rd Quarter 2016 start to end

Acquisition: EMD RFP Contract Decision changed from 2nd Quarter 2017 to 3rd Quarter 2017 start to end

Contracting: Pre-EMD Requirements Development (Phase 1) changed from 4th Quarter 2015 to 1st Quarter 2016

Contracting: Pre-EMD Requirements Development (Phase 2) changed from 1st Quarter 2016 to 2nd Quarter 2016

Systems Engineering: Initial Preliminary Design Review (PDR) changed from 1st Quarter 2017 to 3rd Quarter 2017

Systems Engineering: Initial Preliminary Design Review (PDR) changed from 1st Quarter 2017 to 3rd Quarter 2018

Systems Engineering: Initial Preliminary Design Review (SRR) changed from 2nd Quarter 2016 to 4th Quarter 2018

Test & Evaluation: 4.1 Test changed from 1st Quarter 2019 to 3rd Quarter 2020

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Test & Evaluation: 4.2 Test changed from 1st Quarter 2021 to 4th Quarter 2021		
<p>Follow-on Development (FoD) Block 4 schedule updated to reflect incremental fielding strategy focused on software-focused fleet releases of capability every two years and software plus hardware-focused fleet releases of capability every four years. Based on direction provided in current Block 4 Acquisition Decision Memorandum, the Planning and Systems Engineering phase leading up to a Block 4 system Preliminary Design Review (PDR) was updated to 3rd Quarter FY2017. The Modernization Request for Proposal (RFP) Release Decision Point and Contract Award dates were also updated to account for the program planning, requirements decomposition and systems engineering activities leading up to successful completion of these events.</p> <p>Program Changes: FY2017 Decrease: -\$2.570M was to account for the availability of prior year execution balances. -\$37.632M was for proper program alignment and funding for higher USN priorities.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604810N / (U)Joint Strike Fighter Follow On Develop - Navy					Project (Number/Name) 2936 / JSF Follow On Development - Navy		
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
2936: JSF Follow On Development - Navy	6.000	10.302	21.200	63.387	-	63.387	133.686	144.003	147.646	150.902	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Total cost, including International partner contributions, USN, USMC, and USAF funding: FY2015 \$59.045M; FY2016 \$125.211M; FY2017 \$382.151M

R-2A table shown above reflects service funding only.

R-2A (section B)/R-3 displays combined program for JSF Follow-on Development (FoD).

JSF FoD Includes:

USAF PE 0207142F BPAC 675346

USN PE 0604810N Project Unit 2936

USMC PE 0604810M Project Unit 2935

USN PE 0604800N Project Unit 9999(FY14): \$1.500M

USMC PE 0604800M Project Unit 9999 (FY14): \$1.500M

International Partner Contributions

A. Mission Description and Budget Item Justification

F-35 FoD provides continuing incremental upgrades of the three F-35 variants and associated ground equipment. Upgrades are essential mission improvements for Air Interdiction and Strategic Attack, Close Air Support, Suppression and Destruction of Enemy Air Defenses, Offensive and Defensive Counter Air and expanded Surface Warfare. The Block 4 acquisition strategy is based upon incremental deliveries of capabilities in 4 sub-blocks. The strategy includes deliveries on a two year cycle with a focus on hardware and tech refresh change every four years. FoD capability planning includes an efficient transition from F-35 SDD to Follow-on Development. As SDD development activities ramp down, the FoD will assume responsibility for improvements and modernization efforts. Block 4 capability planning includes Block 4.1 through 4.4 modernization efforts with initial increment of capability available in 2020 and subsequent releases every two years.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Product Development	59.010	114.684	283.246	0.000	283.246
Articles:	-	-	-	-	-

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604810N / (U)Joint Strike Fighter Follow On Develop - Navy	Project (Number/Name) 2936 / JSF Follow On Development - Navy

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>Description: Capability planning effort will focus on mission requirements analysis, early engineering, risk reduction and preparations leading to formal acquisition approval of Block 4 Modernization Contract. Program planning will consist of engineering and development support for defining, managing and the acquisition of capability enhancements required to address threats indicated in the Electronic Warfare Initial Capabilities Document (ICD) and the Fifth Generation Fighter Modernization ICD and FoD CDD.</p> <p>FY 2015 Accomplishments: Requirements analysis and technical requirements development, systems engineering and technical planning. A combined Systems Requirements Review and System Functional Review is planned followed by development of the Block 4 preliminary design.</p> <p>FY 2016 Plans: Requirements analysis and technical requirements development, systems engineering, and technical planning. A combined Systems Requirements Review and System Functional Review is planned followed by development of the Block 4 preliminary design.</p> <p>FY 2017 Base Plans: Continue requirements analysis and technical requirements development, systems engineering, and technical planning. A combined Systems Requirements Review and System Functional Review is planned, followed by development of the Block 4 preliminary design. Begin EMD Block 4 Modernization and complete Pre-EMD Phase 1 and Phase 2 activities.</p> <p>FY 2017 OCO Plans: N/A</p>					
<p>Title: Support Costs</p> <p align="right">Articles:</p>	0.035	10.527	44.849	0.000	44.849
<p>Description: Technical and Analytical Support</p> <p>FY 2015 Accomplishments:</p>	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>Initiate development support for defining, managing and acquiring the F-35 capability enhancements identified in approved requirements documents.</p> <p>FY 2016 Plans: Initiate development support for defining, managing and acquiring the F-35 capability enhancements identified in approved requirements documents.</p> <p>FY 2017 Base Plans: Initiate development support for defining, managing and acquiring the F-35 capability enhancements identified in approved requirements documents.</p> <p>FY 2017 OCO Plans: N/A</p>					
<p>Title: Test and Evaluation</p> <p align="right">Articles:</p> <p>Description: Initiate Laboratory and Test Aircraft Upgrade and other test planning activities required for Block 4 and later development , integration, test and evaluation. Changes are needed to support development and evaluation of improvements driven by changes in threat and as identified in the Electronic Warfare ICD and the Fifth Generation Fighter Modernization ICD.</p> <p>FY 2015 Accomplishments: N/A</p> <p>FY 2016 Plans: N/A</p> <p>FY 2017 Base Plans: Funding will support infrastructure investment planning and prioritization required to maintain future development capability. This includes planning for long-lead procurement for replacement of engines and other life limited components on Developmental Test aircraft that will be at end of life upon completion of SDD, as well as laboratory upgrades required to support development and verification of capabilities in a relevant threat.</p> <p>FY 2017 OCO Plans: N/A</p>	0.000 -	0.000 -	54.056 -	0.000 -	54.056 -
Accomplishments/Planned Programs Subtotals	59.045	125.211	382.151	0.000	382.151

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017	FY 2017	FY 2017
			Base	OCO	Total
0207142F JSF FOLLOW ON DEVELOPMENT	23.660	48.954	127.302	-	127.302
International FoD	14.997	34.259	117.235	-	117.235
0604810M JSF FOLLOW ON DEVELOPMENT	10.086	20.798	74.227	-	74.227
Navy Subtotals	10.302	21.200	63.387	0.000	63.387

C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2015	FY 2016	FY 2017	FY 2017	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Cost To	
										Base	OCO
• RDT&E/0604810M/2635: <i>F-35C Follow-on Development</i>	10.086	20.798	74.227	-	74.227	154.047	164.276	168.433	172.040	Continuing	Continuing
• USAF/FOD/0207142F: <i>USAF Follow-on Development</i>	23.660	48.954	127.302	-	127.302	321.658	340.950	339.209	345.223	Continuing	Continuing
• International: <i>International FoD</i>	14.997	34.259	117.235	-	117.235	151.021	162.381	165.592	162.255	Continuing	Continuing

Remarks

D. Acquisition Strategy

To enable the ability to adjust to potential discrepancies discovered during SDD Block 3 Test and Evaluation, the engineering and development planning support for FoD will be procured under a cost type contract. A fee provision will be used to target and motivate contractor performance. A separate Basic Ordering Agreement or Indefinite Delivery/Indefinite Quantity contract is planned to provide a long term approach to upgrading and maintaining laboratories and test aircraft. Both Development Support and Management Services will primarily use CPFF Delivery Orders.

E. Performance Metrics

Overall FoD Performance Metrics will reflect Key Performance Parameters established in the F-35 FoD Capability Development Document.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)						Project (Number/Name)					
1319 / 5				PE 0604810N / (U)Joint Strike Fighter Follow On Develop - Navy						2936 / JSF Follow On Development - Navy					
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Prime LM TBD	C/CPFF	Lockheed Martin : FT. Worth, TX	0.000	0.000		107.548	Jul 2016	258.583	Jul 2017	-		258.583	Continuing	Continuing	Continuing
Prime LM 02-C-3002	C/CPFF	Lockheed Martin : FT. Worth, TX	1.655	17.830	Jun 2015	1.080	Dec 2015	0.000		-		0.000	0.000	20.565	20.565
Prime LM 16-C-0008	C/CPFF	Lockheed Martin : FT. Worth, TX	0.000	39.280	Jun 2015	14.246	Jan 2016	23.520	Jan 2017	-		23.520	0.000	77.046	77.046
Prime LM IDIQ 13-D-0005	C/CPFF	Lockheed Martin : FT. Worth, TX	0.158	0.000		0.000		0.000		-		0.000	0.000	0.158	0.158
Subtotal			1.813	57.110		122.874		282.103		-		282.103	-	-	-
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	Various	Various : Various	3.787	0.000		0.000		8.714	Dec 2016	-		8.714	55.071	67.572	-
Development Support	Various	Eglin : Various	0.000	0.035	Jun 2015	0.982	Dec 2015	1.940	Dec 2016	-		1.940	13.659	16.616	-
Development Support	WR	NAWCAD : Patuxent River, MD	0.400	0.000		1.355	Dec 2015	20.970	Dec 2016	-		20.970	96.015	118.740	-
Development Support	WR	NAWCWD : China Lake, Ca	0.000	0.000		0.000		7.389	Dec 2016	-		7.389	29.941	37.330	-
Development Support	MIPR	AFLCMC : WRIGHT Patterson AFB	0.000	0.000		0.000		0.232	Dec 2016	-		0.232	2.125	2.357	-
Subtotal			4.187	0.035		2.337		39.245		-		39.245	196.811	242.615	-
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		35.824	Dec 2016	-		35.824	154.870	190.694	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604810N / (U)Joint Strike Fighter Follow On Develop - Navy	Project (Number/Name) 2936 / JSF Follow On Development - Navy
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Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation	WR	NAWCWD : China Lake , CA	0.000	0.000		0.000		1.637	Dec 2016	-		1.637	19.415	21.052	-
Developmental Test & Evaluation Edwards/AFB	Various	Edwards AFB : Edwards AFB, CA	0.000	0.000		0.000		9.592	Dec 2016	-		9.592	284.041	293.633	-
Developmental Test & Evaluation	Various	Various : Various	0.000	0.000		0.000		0.250	Dec 2016	-		0.250	43.999	44.249	-
Subtotal			0.000	0.000		0.000		47.303		-		47.303	502.325	549.628	-

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Functional Wyle	C/CPFF	Wyle : Arlington, VA	0.000	1.900	Sep 2016	0.000		0.000		-		0.000	0.000	1.900	1.900
AFLCMC Civilian Pay	Various	AFLCMC CIVPAY : Wright Patterson, AFB	0.000	0.000		0.000		13.500	Nov 2016	-		13.500	137.060	150.560	-
Subtotal			0.000	1.900		0.000		13.500		-		13.500	137.060	152.460	-

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Subtotals	6.000	59.045	125.211	382.151	-	382.151	-	-	-
0207142F JSF FOLLOW ON DEVELOPMENT	-	23.660	48.954	127.302	-	127.302			-
International FoD	-	14.997	34.259	117.235	-	117.235			-
0604810M JSF FOLLOW ON DEVELOPMENT	-	10.086	20.798	74.227	-	74.227			-
Project Cost Totals	6.000	10.302	21.200	63.387	-	63.387	-	-	-

Remarks
 FY 2014 reflects \$3.000M USAF/\$1.500 USN/\$1.500M USMC/\$0.000M International/Total \$6.000M
 FY 2015 reflects \$23.660M USAF/\$10.302M USN/\$10.086M USMC/\$14.997M International/Total \$59.045
 FY 2016 reflects \$48.954M USAF/\$21.200M USN/\$20.798M USMC/\$34.259M International/Total \$125.211

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy							Date: February 2016			
Appropriation/Budget Activity			R-1 Program Element (Number/Name)			Project (Number/Name)				
1319 / 5			PE 0604810N / (U)Joint Strike Fighter Follow On Develop - Navy			2936 / JSF Follow On Development - Navy				
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract	
FY 2017 reflects \$127.302M USAF/\$63.387M USN/\$74.227M USMC/\$117.235M International/Total \$382.151										
R-2A (section B)/R-3 displays total combined program (i.e. not Service-specific), including International partners.										
JSF Follow on Development Includes: USAF PE 0207142F BPAC 675346 USN PE 0604810N Project Unit 2936 USMC PE 0604810M Project Unit 2935 USN PE 0604800N Project Unit 9999 (FY14): \$1.500 USMC PE 0604800M Project Unit 999 (FY14) : \$1.500										

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604810N / (U)Joint Strike Fighter Follow On Develop - Navy	Project (Number/Name) 2936 / JSF Follow On Development - Navy
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Proj 2936	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Requirements							CDD (JROC) ◆																					
Acquisition											EMD RFP Decision ▲				IPR ◆				EMD Contract Decision ▲				IPR ◆				IPR ◆	
Contracting					Block 4 Pre-Modernization								Block 4 Modernation															
Systems Engineering								Initial SRR ◆								Initial PDR ◆												
Test & Evaluation																					4.1 Test				4.2 Test			
Fielding																												4.1 Fleet Avail ▲

2017PB - 0604810N - 2936

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604810N / (U)Joint Strike Fighter Follow On Develop - Navy	Project (Number/Name) 2936 / JSF Follow On Development - Navy

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2936				
Requirements: Final CDD (JROC)	3	2016	3	2016
Acquisition: EMD RFP Decision	3	2017	3	2017
Acquisition: EMD Contract Decision	3	2018	3	2018
Acquisition: Interim Program Review (IPR) FY18	1	2018	1	2018
Acquisition: Interim Program Review (IPR) FY19	1	2019	1	2019
Acquisition: Interim Program Review (IPR) FY20	1	2020	1	2020
Acquisition: Interim Program Review (IPR) FY21	1	2021	1	2021
Contracting: Block 4 Pre-Modernization	4	2015	3	2018
Contracting: Block 4 Modernization	3	2018	4	2021
Systems Engineering: Initial Preliminary Design Review (PDR)	3	2018	3	2018
Systems Engineering: Initial System Requirements Review (SRR)	4	2016	4	2016
Test & Evaluation: Test & Evaluation: 4.1 Test	3	2019	3	2020
Test & Evaluation: Test & Evaluation: 4.2 Test	1	2021	4	2021
Fielding: Block 4.1 Fleet Availability	4	2020	4	2020