

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0207142F: F-35 Squadrons							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	0.000	9.682	8.117	33.000	-	33.000	104.866	132.174	229.912	300.050	Continuing	Continuing
675346: F-35	0.000	0.000	8.117	23.000	-	23.000	104.866	132.174	229.912	300.050	Continuing	Continuing
676011: JSF DUAL CAPABLE AIRCRAFT	0.000	9.682	0.000	10.000	-	10.000	0.000	0.000	0.000	0.000	Continuing	Continuing
MDAP/MAIS Code(s): 198												
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
^{##} The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
<p>The F-35 Joint Strike Fighter (JSF) Program is developing a family of highly common, affordable, next generation, multi-role aircraft to meet the needs of the USMC, USN, USAF and international partners. The three variants are the F-35A Conventional Takeoff and Landing (CTOL); F-35B Short Takeoff and Vertical Landing (STOVL); and the F-35C Carrier Variant (CV). Maximum commonality among the variants, consistent with National Disclosure Policy, will minimize life cycle costs. FY2014 continues EMD development and testing of the F-35. As the initial capabilities are being delivered from the System Development and Demonstration (SDD) program, capability planning for Follow-on Development (FoD) is underway. Capability requirements are being assessed and FoD capability planning continues based upon the approved Fifth Generation Fighter Modernization Initial Capabilities Document (ICD), an approved Electronic Warfare ICD, and the results of an OSD Tiger Team Review. Follow-on Development will provide capability enhancements, required systems upgrades and cost improvements through an incremental acquisition approach.</p> <p>Additionally, the Joint Contract Specification requirements call for the F-35A (CTOL) Variant Air Vehicle to have the capabilities and provisions for Dual Capable Aircraft (DCA) operations. DCA refers to the capability to carry and deliver conventional or non-conventional weapons. DCA operation for the F-35A is internal carriage of two B-61s.</p> <p>This program is in Budget Activity 7, Operational System Development, because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.</p>												

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207142F: <i>F-35 Squadrons</i>
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B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	9.967	8.117	50.084	-	50.084
Current President's Budget	9.682	8.117	33.000	-	33.000
Total Adjustments	-0.285	0.000	-17.084	-	-17.084
• Congressional General Reductions	-	0.000			
• Congressional Directed Reductions	-	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	-	0.000			
• Congressional Directed Transfers	-	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.285	0.000			
• Other Adjustments	0.000	0.000	-17.084	-	-17.084

Change Summary Explanation

FY14 adjustments for proper program alignment and funding for higher Air Force priorities

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0207142F: F-35 Squadrons				PROJECT 675346: F-35			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
675346: F-35	0.000	0.000	8.117	23.000	-	23.000	104.866	132.174	229.912	300.050	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
NOTE:												
R-2A costs shown above reflect service funding only.												
R-2A (section B)/R-3 displays combined service funding for JSF Follow-on Development.												
JSF FoD Includes:												
USAF:PE 0207142F BPAC 675346												
USN: FY13 PE 0604800N Project Unit 2261												
USN: FY14 PE 0604800N Project Unit 3353												
USMC: FY13 PE 0604800M Project Unit 2262												
USMC: FY14 PE 0604800M Project Unit 3351												
JSF DCA Includes:												
USAF PE 0207142F BPAC 676011												
USN N/A												
USMC N/A												
A. Mission Description and Budget Item Justification												
F-35 Follow-on Development (FoD) provides continuing incremental upgrades of the three F-35 variants and associated ground equipment. The FoD acquisition strategy is based upon incremental development of capabilities with each increment consisting of two development cycles. FoD capability planning includes an efficient transition from F-35 SDD to Follow-on Development. As SDD development activities ramp down through FY17, the FoD program will assume responsibility for new development and the maintenance of associated developmental infrastructure. FoD capability planning currently includes Milestone B in late FY15 to enable Block 4 Engineering and Manufacturing Development efforts from FY16 through FY18, followed by DT and OT testing in 2020 with delivery of capabilities in early 2021. A Materiel Development Decision (MDD) formally approving FoD Material Solution Analysis and Technology Development/Risk Reduction phases for technology acquisition is planned in late FY13.												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0207142F: F-35 Squadrons	PROJECT 675346: F-35	
This program is in Budget Activity 7, Operational System Development, because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.			
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
<p>Title: Air Vehicle Follow-on Development (Capability Planning)</p> <p>Description: FY2014 capability planning effort will focus on mission requirements analysis, early engineering, risk reduction and preparations leading to formal acquisition approval of Block 4. Program planning will consist of engineering and development support for defining, managing and acquisition of capability enhancements required to address threats indicated in the Electronic Warfare ICD, the Fifth Generation Fighter Modernization ICD and as further defined in the F-35 Follow-on Development Increment 1 (Block 4) Capability Development Document (CDD) (Note: CDD approval planned in FY-14).</p> <p>FY 2013 Plans: Early capabilities planning, requirements and alternatives analysis, and U.S. and Partner investment planning in accordance the Production, Sustainment, & Follow-on Development Memorandum of Agreement.</p> <p>Initial FoD funding was included in projects 2262 & 2261 for USN & USMC. FY14 funding will be reflected in projects 3353 & 3351.</p> <p>FY 2014 Plans: Requirements analysis and technical requirements development, systems engineering, and technical planning. A formal Systems Requirements Review is planned in FY14.</p>	0.000	16.834	24.034
<p>Title: Developmental Test and Evaluation</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 Fith Generation Fighter Modernization ICD. .</p> <p>FY 2014 Plans: Near term funding will support infrastructure upgrades required for development of enhanced capabilities. This includes replacement of engines and other life limited components on DT aircraft that will be at end of life upon completion of SDD, as well as laboratory upgrades to support development and verification of capabilities to address advanced threats.</p>	0.000	0.000	17.100
<p>Title: Development Support</p> <p>Description: Technical and Analytical Support</p> <p>FY 2014 Plans:</p>	0.000	0.000	4.582

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B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Initiate development support for defining, managing and acquiring the envisioned F-35B capability enhancements identified in approved requirements documents.												
Title: Management Services										0.000	0.000	3.630
Description: Includes management support, travel, engineering technical services, acquisition planning, studies and analysis in support of FoD Program objectives.												
FY 2014 Plans: Acquisition and program planning, documentation development to include all regulatory and statutory requirements required in preparation for Milestone B approval in late FY2015 or early FY16 to begin FoD Increment 1, Block 4 E&MD												
Accomplishments/Planned Programs Subtotals										0.000	16.834	49.346
Other Service Program Funding Adjustment										-	8.717	26.346
Air Force Subtotals										0.000	8.117	23.000
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• RDTE: BA05: PE 0604800F: JSF SDD, BPAC 653831	1,366.147	1,192.506	782.335		782.335	621.432	486.094	175.591	77.992	0.000	22,151.183	
• RDTE:BA05: PE 0604800F: JSF Deployability and Suitability Enhancements, BPAC 653832	0.000	17.800	34.000		34.000	33.000	30.000	0.000	0.000	Continuing	Continuing	
• RDTE: BA07: PE 207142F: Dual Capable Aircraft (DCA), BPAC 676011	9.682	0.000	10.000		10.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
• RDTEN: BA05: PE 604800N: JSF SDD (CV), BPAC 2261	605.998	724.392	507.753		507.753	570.181	450.625	254.021	23.023	0.000	22,922.837	
• RDTEN: BA05: PE 604800M: JSF SDD (STOVL), BPAC 2262	617.695	737.149	482.823		482.823	557.360	439.945	244.047	96.185	0.000	22,962.048	
• RDTEN:BA05: PE 604800N: USRL, BPAC 3194	26.044	19.534	0.000		0.000	0.000	0.000	0.000	0.000	0.000	149.262	
• International R&D (SDD/FoD): Int'l Parnter (SDD/FOD)	145.664	149.346	4.411		4.411	0.000	0.000	0.000	0.000	0.000	4,947.074	

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207142F: F-35 Squadrons			PROJECT 675346: F-35				
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• APAF: BA01: ATA000: JSF CTOL, PE 0207142F, BP10	3,289.615	3,124.302	3,060.770		3,060.770	3,921.250	3,894.217	5,250.891	5,850.477	150,878.750	189,907.778
• APAF: BA01:ATA000: JSF CTOL Advance Procurement, PE 207142F, BP10	228.977	293.400	363.783		363.783	482.795	509.828	578.000	588.404	18,585.140	22,633.855
• APN: BA01: BP0147: JSF (CV), PE 0204146N	1,447.097	1,007.632	1,135.444		1,135.444	1,082.046	1,468.775	2,054.690	2,532.068	26,737.969	45,618.677
• APN: BA01: BP0147C: JSF Advance Procurement (CV), PE 204146N	109.066	65.180	94.766		94.766	132.063	185.904	246.779	190.141	3,364.677	5,219.579
• APN: BA01:BP0152: JSF (STOVL), PE 0204146M	1,141.906	1,404.737	1,267.260		1,267.260	1,209.937	1,461.056	2,125.324	2,814.618	29,224.711	41,203.070
• APN: BA01: BP0152C: JSF Advance Procurement (STOVL), PE 204146M	117.229	106.199	103.195		103.195	143.887	203.057	226.014	136.732	4,095.291	5,755.765
• International Production: International Production	1,808.640	3,453.903	5,738.517		5,738.517	7,563.725	8,328.889	8,153.307	7,347.293	Continuing	Continuing
• OPN: BA04: BP4265: JSF Other Procurement, PE 204261N	5.665	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	5.665
• OPN: BA03: BP4267: JSF Logistics Information System (ALIS), PE 204261N	0.000	3.826	4.827		4.827	4.554	4.604	5.729	5.830	43.558	72.928
• APAF: BA06: ATA000: JSF Initial Spares, PE 0207142F, BP16	149.556	181.833	103.582		103.582	235.183	271.211	235.251	342.508	Continuing	Continuing
• APN: BA06:ATA000: Initial Spares (CV), PE 0204146N, BP0605	29.902	41.466	42.060		42.060	17.310	32.270	121.283	63.995	Continuing	Continuing
• APN: BA06: ATA000: Initial Spares (STOVL), PE 0204146M, BP0605	23.430	99.006	41.707		41.707	131.216	94.193	66.423	127.264	Continuing	Continuing
• MILCON: BA01: PE 0207142F: JSF Military Construction	24.250	13.530	41.900		41.900	72.100	65.000	66.170	11.000	1,554.200	2,358.300

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• USN MILCON: BA01: USN JSF Military Construction	144.400	117.600	209.000		209.000	320.500	151.700	48.100	0.000	830.600	2,259.300
• APAF: BA05: ATA000: JSF Modifications, PE 0207142F, BP11	0.000	147.995	157.777		157.777	245.462	223.683	252.141	256.680	Continuing	Continuing
• OPAF: BA01: 821800: Joint Strike Fighter, PE 0207142F	0.000	0.600	2.200		2.200	2.943	2.471	2.345	2.387	0.000	12.946
• APN: BA05: BP0593: Modifications (CV), PE 204146N	0.000	0.000	31.100		31.100	52.900	62.130	98.980	102.456	Continuing	Continuing
• APN: BA05: BP0592: Modifications (STOVL), PE 204146M	0.000	0.000	147.130		147.130	291.910	284.360	176.610	181.234	Continuing	Continuing
• RDTE: BA05:PE 604800N: F-35C Follow-on Development (CV), BPAC 3353	0.000	0.000	11.442		11.442	19.996	60.963	115.057	173.276	Continuing	Continuing
• RDT&EN:BA05: PE 604800N: F-35C Sustainment/Capability Enhancements (CV),BPAC 3352	0.000	0.000	14.992		14.992	14.997	14.991	0.000	0.000	0.000	44.980
• RDT&EN: BA05: PE 604800M: F-35B Sustainment/Capability Enhancements (STOVL),BPAC 3350	0.000	0.000	14.904		14.904	14.976	14.960	0.000	0.000	0.000	44.840
• RDTE: BA07: PE 604800M: F-35B Follow-on Development (STOVL), BPAC 3351	0.000	0.000	14.904		14.904	19.968	60.837	114.965	172.906	Continuing	Continuing
Remarks											
This is a joint program with no executive service. Service Acquisition Executive (SAE) authority alternates between the Department of the Navy and the Department of the Air Force and currently resides with the Navy. Program Element 0604800N/0604800M continues USN development efforts budgeted in 0603800N prior to FY2002. The United Kingdom and other International countries are participants in the SDD phase of JSF.											
Note: The USAF/USN/USMC PROCUREMENT lines include Aircraft Procurement and Advanced Procurement only. Initial Spares and Repair Parts for all Services are reflected in separate lines. International Partner Funding includes funds provided under the Italy and Netherlands Bilateral agreements.											

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0207142F: F-35 Squadrons	PROJECT 675346: F-35	

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

Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
RELATED RDT&E: Funding prior to JSF SDD (FY94-FY01): USN PE 0603800N \$1,950,617; USAF PE 0603800F \$1,907,352; DARPA PE 0603800E \$118,056; and International Partner contributions of \$253.921 for a total of \$4,229,896.											

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 Follow-on Development 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 Quantity/Indefinite Delivery 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

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force						PE 0207142F: F-35 Squadrons				675346: F-35					
BA 7: Operational Systems Development															
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Requirements Analysis, Systems Engineering and Risk Reduction	SS/CPFF	Lockheed Martin:Ft Worth, TX	0.000	0.000		16.834	Aug 2013	24.034	Mar 2014	-		24.034	Continuing	Continuing	107.984
Subtotal			0.000	0.000		16.834		24.034		0.000		24.034			107.984
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical and Analytic Support LM	SS/CPFF	Lockheed Martin:Ft Worth, TX	0.000	0.000		0.000		4.582	Mar 2014	-		4.582	Continuing	Continuing	10.062
Subtotal			0.000	0.000		0.000		4.582		0.000		4.582			10.062
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Laboratory and Test Aircraft Infrastructure	TBD	Lockheed Martin:Ft Worth, TX	0.000	0.000		0.000		17.100	Jan 2014	-		17.100	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		17.100		0.000		17.100			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Support and Milestone Preparations	TBD	Various:Various,	0.000	0.000		0.000		2.895	Nov 2013	-		2.895	Continuing	Continuing	
PMA	Various	Various:Various,	0.000	0.000		0.000		0.735		-		0.735	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		3.630		0.000		3.630			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force										DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE					PROJECT			
3600: Research, Development, Test & Evaluation, Air Force					PE 0207142F: F-35 Squadrons					675346: F-35			
BA 7: Operational Systems Development													
	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Subtotals	0.000	0.000		16.834		49.346		0.000		49.346			
Other Service Program Funding Adjustment	-	-		8.717		26.346		-		26.346	-	35.063	-
Project Cost Totals	0.000	0.000		8.117		23.000		0.000		23.000			

Remarks

NOTE: R-2A/R-3 displays combined service funding for JSF Follow-on Development.

JSF FoD Includes:

USAF PE 0207142F BPAC 675346

FY13: USN PE 0604800N Project Unit 2261

FY14: USN PE 0604800N Project Unit 3353

FY13: USMC PE 0604800M Project Unit 2262

FY14: USMC PE 0604800M Project Unit 3351

JSF DCA Includes:

USAF PE 0207142F BPAC 676011

USN N/A

USMC N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

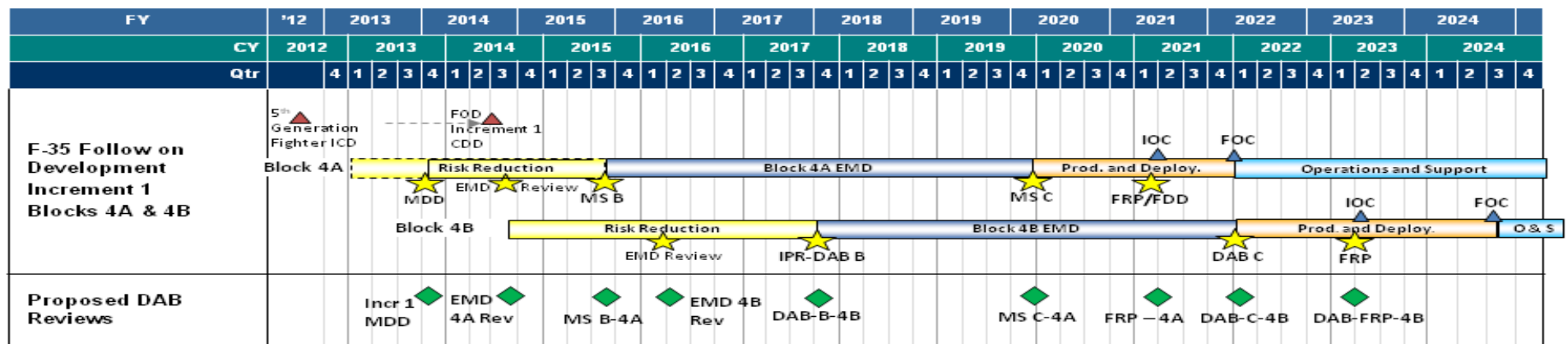
R-1 ITEM NOMENCLATURE

PE 0207142F: F-35 Squadrons

PROJECT

675346: F-35

FoD Top Level Planning Schedule



6 February 2013

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207142F: <i>F-35 Squadrons</i>	PROJECT 675346: <i>F-35</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Block 4A Risk Reduction	1	2014	3	2015
Block 4A Engineering and Manufacturing Development	3	2015	1	2018
Block 4A DT/OT	3	2018	4	2018
Block 4B Risk Reduction	2	2014	4	2017
Block 4B Engineering and Manufacturing Development	4	2017	4	2018

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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
676011: JSF DUAL CAPABLE AIRCRAFT	0.000	9.682	0.000	10.000	-	10.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
NOTE: JSF FoD Includes: USAF:PE 0207142F BPAC 675346 USN: FY13 PE 0604800N Project Unit 2261 USN: FY14 PE 0604800N Project Unit 3353 USMC: FY13 PE 0604800M Project Unit 2262 USMC: FY14 PE 0604800M Project Unit 3351 JSF DCA Includes: USAF PE 0207142F BPAC 676011 USN N/A USMC N/A												
A. Mission Description and Budget Item Justification												
The Joint Strike Fighter (JSF) program will develop and deploy a family of highly common, affordable next generation, stealthy, multi-role strike fighter aircraft that meets the needs of the USN, USAF, USMC and allies with maximum commonality among the variants, consistent with National Disclosure Policy, to minimize life cycle costs. The Joint Contract Specification requirements call for the F-35A (CTOL) Variant Air Vehicle to have the capabilities and provisions for Dual Capable Aircraft (DCA) operations. DCA refers to the capability to carry and deliver conventional or non-convnventional weapons. DCA operation is internal carriage of two non-conventional weapons. In accordance with the Operational Requirements Document, DCA will be integrated in the first post-SDD block upgrade in time to meet Joint Strategic Capabilities Plan force structure requirements.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: DCA									9.682	0.000	10.000	
Description: This effort provides for the assessment of Dual Capable Aircraft (DCA) weapon integration impacts on the Joint Strike Fighter (JSF) aircraft, early in the weapon design phase. It identifies and avoids potential technical and cost risks, as well												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207142F: F-35 Squadrons				PROJECT 676011: JSF DUAL CAPABLE AIRCRAFT				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
as defining the integration and certification trade-space to field the DCA capability with the B61 weapon. This effort also supports follow-on risk reduction efforts that will ensure future integration alignment with the first feasible post SDD block upgrade, and is expected to include full integration efforts pending Service decisions.												
FY 2012 Accomplishments: Initiate efforts assess the feasibility and trade-space of incorporating dual-capability in to the first post SDD block upgrade.												
FY 2014 Plans: Initiate risk reduction efforts required to integrate dual-capability on F-35A (CTOL). Developmental alignment with post SDD block upgrades will be determined based on analysis performed in FY12 and FY13.												
Accomplishments/Planned Programs Subtotals										9.682	0.000	10.000
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• RDTE: BA05: PE 0604800F: JSD SDD, BPAC 653831	1,366.147	1,192.506	782.335		782.335	621.432	486.094	175.591	77.992	0.000	22,151.183	
• RDTE: BA05: PE 604800N: JSD SDD (CV), BPAC 2261	605.998	724.392	507.753		507.753	570.181	450.625	254.021	23.023	0.000	22,922.837	
• RDTE: BA05: PE 604800M: JSD SDD (STOVL), BPAC 2262	617.695	737.149	482.823		482.823	557.360	439.945	244.047	96.185	0.000	22,962.048	
• APN: BA01:BP0152C: JSF Advance Procurement (STOVL), PE 204146M	117.229	106.199	103.195		103.195	143.887	203.057	226.014	136.732	4,095.291	5,755.765	
• RDTE:BA05: PE 604800N: USRL, BPAC 3194	26.044	19.534	0.000		0.000	0.000	0.000	0.000	0.000	0.000	149.262	
• International R&D: International R&D (SDD/FOD)	145.664	149.346	4.411		4.411	0.000	0.000	0.000	0.000	0.000	4,947.074	
• APAF: BA01: ATA000: JSF CTOL, PE 207142F, BP10	3,289.615	3,124.302	3,060.770		3,060.770	3,921.250	5,188.155	5,250.891	5,850.477	150,878.750	189,907.778	
• APAF:BA01: ATA000: JSF CTOL Advance Procurement, PE 207142F, BP10 AP	228.977	293.400	363.783		363.783	482.795	509.828	578.000	588.404	18,585.140	22,633.855	

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207142F: F-35 Squadrons				PROJECT 676011: JSF DUAL CAPABLE AIRCRAFT				
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• APN: BA01: BP0147: JSF (CV), PE 204146N	1,447.097	1,007.632	1,135.444		1,135.444	1,082.046	1,468.775	2,054.690	2,532.068	26,737.969	45,618.677	
• APN: BA01: BP0147C: JSF Advance Procurement (CV), PE 204146N	109.066	65.180	94.766		94.766	132.063	185.904	846.779	190.141	3,364.677	5,219.579	
• APN: BA01: BP0152: JSF (STOVL), PE 204146M	1,141.906	1,404.737	1,267.260		1,267.260	1,209.937	1,461.056	2,125.324	2,814.618	29,224.711	41,203.070	
• International Production: JSF International Production	1,808.640	3,453.903	5,738.517		5,738.517	7,563.725	8,328.889	8,153.307	7,347.293	Continuing	Continuing	
• OPAF: BA01: 821800: Joint Strike Fighter, PE 0207142F	0.000	0.600	2.200		2.200	2.943	2.471	2.345	2.387	0.000	12.946	
• OPN: BA04: BP4265: JSF Other Procurement, PE 204261N	5.665	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	5.665	
• OPN: BA03: BP4267: JSF Logistics Information System (ALIS),PE 204261N	0.000	3.826	4.827		4.827	4.554	4.604	5.729	5.830	43.558	72.928	
• APAF: BA06: PE 207142F, BP16: JSF Initial Spares	149.556	181.833	103.582		103.582	235.183	271.211	235.251	342.508	Continuing	Continuing	
• APN: BA06: PE 204146N, BP0605: Initial Spares (CV)	29.902	41.466	42.060		42.060	17.310	32.270	121.283	63.995	Continuing	Continuing	
• APN: BA06: PE 204146M, BP0605: Initial Spares (STOVL)	23.430	99.006	41.707		41.707	131.216	94.193	66.423	127.264	Continuing	Continuing	
• MILCON: BA01: PE 207142F: JSF Military Construction	24.250	13.530	41.900		41.900	72.100	65.000	66.170	11.000	1,554.200	2,358.300	
• USN MILCON: BA01: USN JSF MILCON	144.400	117.600	209.000		209.000	320.500	151.700	48.100	0.000	830.600	2,259.300	
• APAF: BA05: PE 20742F, BP11: JSF Modifications	0.000	147.995	157.777		157.777	245.462	223.683	252.141	256.680	Continuing	Continuing	
• APN: BA05: BP0593: Modifications (CV),PE 204146N	0.000	0.000	31.100		31.100	52.900	62.130	98.980	102.456	Continuing	Continuing	

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force									DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207142F: F-35 Squadrons			PROJECT 676011: JSF DUAL CAPABLE AIRCRAFT				
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• APN: BA05: BP0592: Modifications (STOVL), PE 204146M	0.000	0.000	147.130		147.130	291.910	284.360	176.610	181.234	Continuing	Continuing
• RDTE: BA07: PE 207142F: JSF Follow-on Development (FoD), BPAC 675346	0.000	8.117	23.000		23.000	104.866	132.174	229.912	300.050	Continuing	Continuing
• RDTE:BA05: PE 0604800F: JSF Deployability and Suitability Enhancements, BPAC 653832	0.000	17.800	34.000		34.000	33.000	30.000	0.000	0.000	Continuing	Continuing
• RDTE: BA05: PE 604800N: F-35C Follow-on Development (CV),BPAC 3353	0.000	0.000	11.442		11.442	19.996	60.963	115.057	173.276	Continuing	Continuing
• RDT&EN: BA05: PE 604800N: F-35C Sustainment/Capability Enhancements (CV), BPAC 3352	0.000	0.000	14.992		14.992	14.997	14.991	0.000	0.000	0.000	44.980
• RDTE: BA05: PE 604800M: F-35B Follow-on Development (STOVL), BPAC 3351	0.000	0.000	14.904		14.904	19.968	60.837	114.965	172.906	Continuing	Continuing
• RDT&EN: BA05: PE 604800M: F-35B Sustainment/Capability Enhancements (STOVL), BPAC 3350	0.000	0.000	14.904		14.904	14.976	14.960	0.000	0.000	0.000	44.840
Remarks											
This is a joint program with no executive service. Service Acquisition Executive (SAE) authority alternates between the Department of the Navy and the Department of the Air Force and currently resides with the Navy. Program Element 0604800N/0604800M continues USN development efforts budgeted in 0603800N prior to FY2002. The United Kingdom and other International countries are participants in the SDD phase of JSF.											
Note: The USAF/USN/USMC PROCUREMENT lines include Aircraft Procurement and Advanced Procurement only. Initial Spares and Repair Parts for all Services are reflected in separate lines. International Partner Funding includes funds provided under the Italy and Netherlands Bilateral agreements.											

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207142F: <i>F-35 Squadrons</i>	PROJECT 676011: <i>JSF DUAL CAPABLE AIRCRAFT</i>	

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

<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
RELATED RDT&E: Funding prior to JSF SDD (FY94-FY01): USN PE 0603800N \$1,950,617; USAF PE 0603800F \$1,907,352; DARPA PE 0603800E \$118,056; and International Partner contributions of \$253.921 for a total of \$4,229,896.											

D. Acquisition Strategy

The DCA effort will be procured via a cost type contract. It is anticipated that fee provisions will be used to target and motivate the contractor performance. Similar to SDD, BOAs and ID/IQ contracts may be used for trade studies, analyses, and planning activities.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0207142F: F-35 Squadrons						PROJECT 676011: JSF DUAL CAPABLE AIRCRAFT			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Lockheed Martin - DCA Integration	SS/CPFF	Lockheed Martin:Ft. Worth, TX	0.000	9.682	Mar 2013	0.000		10.000	Mar 2014	-		10.000	0.000	19.682	19.682
Subtotal			0.000	9.682		0.000		10.000		0.000		10.000	0.000	19.682	19.682
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Project Cost Totals			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	9.682		0.000		10.000		0.000		10.000	0.000	19.682	19.682
Remarks JSF FoD Includes: USAF:PE 0207142F BPAC 675346 USN: FY13 PE 0604800N Project Unit 2261 USN: FY14 PE 0604800N Project Unit 3353															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force							DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE			PROJECT				
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development			PE 0207142F: F-35 Squadrons			676011: JSF DUAL CAPABLE AIRCRAFT				
	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
USMC: FY13 PE 0604800M Project Unit 2262 USMC: FY14 PE 0604800M Project Unit 3351 JSF DCA Includes: USAF PE 0207142F BPAC 676011 USN N/A USMC N/A										

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

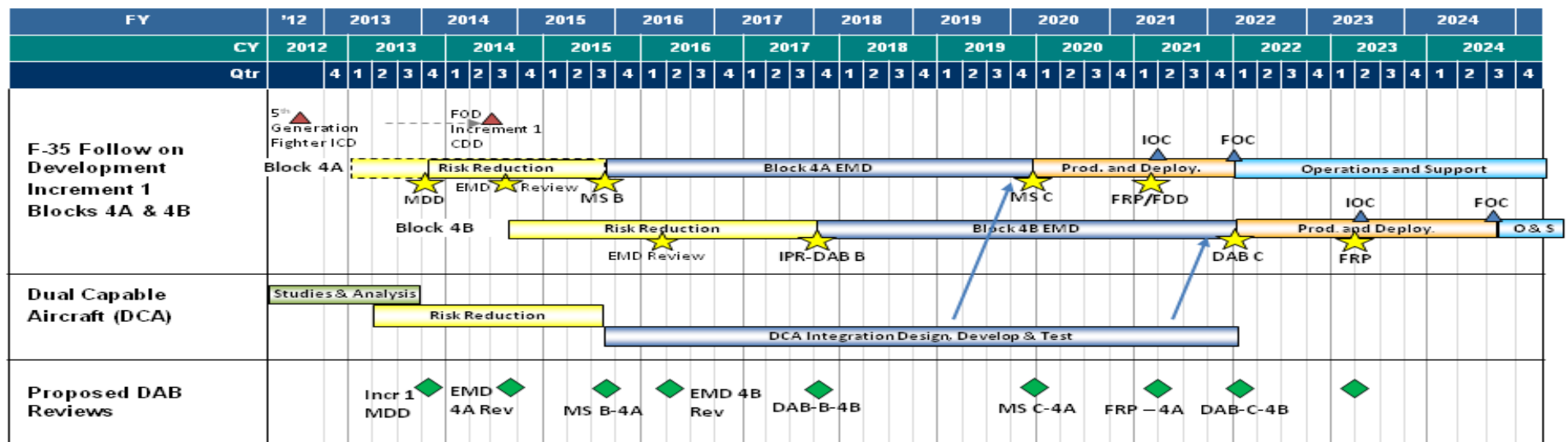
R-1 ITEM NOMENCLATURE

PE 0207142F: F-35 Squadrons

PROJECT

676011: JSF DUAL CAPABLE AIRCRAFT

FoD Top Level Planning Schedule



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12 February 2013

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207142F: <i>F-35 Squadrons</i>	PROJECT 676011: <i>JSF DUAL CAPABLE AIRCRAFT</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DCA Studies & Analysis	1	2012	3	2013
DCA Risk Reduction	2	2013	3	2015
DCA Integration Design, Development & Test	3	2015	4	2018