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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207133F: <i>F-16 SQUADRONS</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	123.733	142.620	129.103	0.000	129.103	110.939	112.632	109.054	110.659	Continuing	Continuing
672671: <i>F-16 Squadrons</i>	123.733	142.620	129.103	0.000	129.103	110.939	112.632	109.054	110.659	Continuing	Continuing

A. Mission Description and Budget Item Justification

The F-16 Fighting Falcon is the world's premier multi-mission fighter. It is a fixed-wing, high performance, single-engine fighter aircraft. In its 31-year history, the F-16 has proven itself in combat in a variety of air-to-air and air-to-surface missions such as close air support, combat air patrol, forward air control, battle air interdiction (day/night and all-weather) and suppression of enemy air defenses (SEAD)/Destruction of enemy air defenses (DEAD). Also during these years the aircraft has evolved in its capabilities to exploit the advances made in computer, avionics systems, engine, and structures technologies. The F-16 has been selected by more than 20 air forces around the world and foreign military sales production continues in the 21st century. The 312th Aeronautical Systems Group (312 AESG, the F-16 Development Management Office) develops, integrates, and qualifies systems to enhance the overall performance of the F-16 mission.

Enhancements which are being or will be developed during the FYDP include:

a. Operational Flight Program (OFP) Development: Blk 40-52 OFP (M-tapes) are updated continually to integrate new precision weapons, advanced targeting pods, improved avionics and other HW Group B subsystems. Major tapes (e.g., M5/M5+) are released every three years and a minor tape (e.g., M5.2+) is released 1 year after each major tape. The European Participating Air Forces (EPAF) countries participate in the development of M tapes and share the cost of developing common capabilities and totally fund development of their unique capabilities. Generally, three major or minor tapes are under development/testing at any one time. Extensive ground and flight testing is required to field each M tape. Integration efforts include Auto Ground Collision Avoidance System (Auto GCAS), software upgrades to the ALR-56M Radar Warning Receiver, manned fighter reconnaissance capabilities and Joint Helmet Mounted Cueing System (JHMCS) which allows the pilot to designate and shoot targets off-bore sight without maneuvering the aircraft. Advanced weapons integration includes Joint Air-to-Surface Stand-off Missile (JASSM) and Joint Direct Attack Munition (JDAM, Laser JDAM), Joint Stand-off Weapon (JSOW), Wind Corrected Munition Dispenser (WCMD), Small Diameter Bomb (SDB), AMRAAM, AIM-9X and updates to existing weapons into the F-16. Integration with the high angle off-bore sight AIM-9X missile provides the F-16 with enhanced first-look/first-shoot/first-kill advantage in the "dogfight" arena. Weapons integration also includes tasks such as performing risk reduction activities on advanced weapon integration, developing and integrating advanced racks, pylons, adapters, and the Universal Armament Interface, and ensuring nuclear surety, safety and compatibility. Link 16 provides the F-16s with a secure, jam resistant, high-capacity data communications link with other combat aircraft, airborne control aircraft, and ground control centers. Major new capabilities currently being integrated via M tapes include embedded GPS/INS to improve targeting accuracy and GPS security (i.e. selective availability anti-spoofing module), common weapons engagement zone, EGBU-12 (lazer/GPS guided bomb), mode 5 IFF, small diameter bomb with universal armament interface, AIM-120D, and joint mission planning system. Starting with M6/M6+ OFP, LM Aero will start transition activities for OFP workload and maintenance of M-series

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<p>OFP tapes to OO-ALC and assumes a "leader/follower" transition where LM Aero will produce M6/M6+ OFP as OO-ALC builds up capability (personnel, special test equipment, OFP development tools & processes, and training). OO-ALC will have software development responsibility for the next M-series OFP program (M7+). During transition, both Lockheed and Ogden may have some concurrent software development capabilities both in terms of special test equipment and personnel since OFP tape developments overlap. This funding is broken out through FY09 for clarity to separate these transition efforts from OFP Development.</p> <p>b. The Mode 5 program for Blk 40/50 aircraft provides secure, encrypted IFF transponder/interrogator capability. Modifications to the Air-to Air Interrogator (AAI) system through integration of a Mode 5 capable Combined Interrogator/Transponder (CIT) capability will field with M6+ OFP.</p> <p>c. Structural Fatigue Test: Initiate Full Scale Fatigue testing on F-16 40-50 A/C. The F 16 is operating under increased risk of unanticipated damage without this testing. Much of the current F 16 fleet is aging beyond the tested lifetime. Additionally, safe life extension past 8K hours is not feasible without this needed testing. Impact if not funded: Increased risk of unanticipated damage and higher probability of in flight failures, increased groundings, maintenance, and repair costs.</p> <p>d. Thunder Radar Pod: This is a development effort to procure one Thunder Radar Pod and associated equipment for testing. Funding provided by an FY09 and FY10 Congressional adds.</p> <p>e. EMD Hardware/Advanced Capability Improvements: EMD HW provides funding to develop, test, and qualify aircraft subsystems replaced or modified due to requirements changes, Pre-Planned Product Improvements (P3I) and Diminishing Manufacturing Source (DMS). The approach to contracting varies by individual project. These hardware improvements include but are not limited to flight systems, improved navigation, mux architecture, MMC upgrade, Embedded GPS/INS, Blk 40 Air-to-Air Interrogator (AAI), digital video recorder, Advanced Data Transfer Equipment (ADTE) and related data transfer devices, display upgrades, radio and communication studies, Electronic Warfare (EW), CAS Data Link and other subsystems. Advanced Capability Improvements includes software integration, sensor upgrades, enhanced self-protection/electronic protection (EP), 4th/5th gen fighter network communications, lab and/or on-aircraft evaluation of potential subsystem changes/capability improvements on the F-16 as well as establishment of associated requirement specification changes. These capability improvements also fund integration of pods including updates and tech order changes (SNIPER, LANTIRN, HTS, LITENING, THUNDER POD, Theatre Air Reconnaissance System (TARS/RECCE) etc.</p> <p>f. Beyond Line-of-Sight (BLOS) Communication Capability: The BLOS communication capability modification is in response to the revised AFCENT Urgent Operational Need to install BLOS capability in all fighter aircraft deploying in support of OIF/OEF. This modification will provide a satellite communication (SATCOM) capability to communicate with many rotary wing and ground maneuver units in the theater of operations. BLOS development for Blocks 30/32 received an OMNIBUS reprogramming and funding to initiate Blocks 40-52 development/integration was provided in the FY08 Supplemental Bill.</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 0207133F: <i>F-16 SQUADRONS</i>
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Since the development activities in this PE support an operational aircraft, these development activities are funded in the operational system development budget activity 7.

B. Program Change Summary (\$ in Millions)

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	126.834	141.020	0.000	0.000	0.000
Current President's Budget	123.733	142.620	129.103	0.000	129.103
Total Adjustments	-3.101	1.600	129.103	0.000	129.103
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		1.600			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-3.101	0.000			
• Other Adjustments	0.000	0.000	129.103	0.000	129.103

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 672671: *F-16 Squadrons*

Congressional Add: *Plus up/Thunder Pod*

Congressional Add Subtotals for Project: 672671

Congressional Add Totals for all Projects

	<u>FY 2009</u>	<u>FY 2010</u>
	3.191	1.600
	3.191	1.600
	3.191	1.600

Change Summary Explanation

FY10: \$1.6M Congressional Add for Thunder Pod. The FY 2010 President's Budget submittal did not reflect FY 2011 through FY 2015 funding. Therefore, explanation of changes between the two budget positions cannot be made in a relevant manner."

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207133F: <i>F-16 SQUADRONS</i>	PROJECT 672671: <i>F-16 Squadrons</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
672671: <i>F-16 Squadrons</i>	123.733	142.620	129.103	0.000	129.103	110.939	112.632	109.054	110.659	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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<p>OFP tapes to OO-ALC and assumes a "leader/follower" transition where LM Aero will produce M6/M6+ OFP as OO-ALC builds up capability (personnel, special test equipment, OFP development tools & processes, and training). OO-ALC will have software development responsibility for the next M-series OFP program (M7+). During transition, both Lockheed and Ogden may have some concurrent software development capabilities both in terms of special test equipment and personnel since OFP tape developments overlap. This funding is broken out through FY09 for clarity to separate these transition efforts from OFP Development.</p> <p>b. The Mode 5 program for Blk 40/50 aircraft provides secure, encrypted IFF transponder/interrogator capability. Modifications to the Air-to Air Interrogator (AAI) system through integration of a Mode 5 capable Combined Interrogator/Transponder (CIT) capability will field with M6+ OFP.</p> <p>c. Structural Fatigue Test: Initiate Full Scale Fatigue testing on F-16 40-50 A/C. The F 16 is operating under increased risk of unanticipated damage without this testing. Much of the current F 16 fleet is aging beyond the tested lifetime. Additionally, safe life extension past 8K hours is not feasible without this needed testing. Impact if not funded: Increased risk of unanticipated damage and higher probability of in flight failures, increased groundings, maintenance, and repair costs.</p> <p>d. Thunder Radar Pod: This is a development effort to procure one Thunder Radar Pod and associated equipment for testing. Funding provided by an FY09 and FY10 Congressional adds.</p> <p>e. EMD Hardware/Advanced Capability Improvements: EMD HW provides funding to develop, test, and qualify aircraft subsystems replaced or modified due to requirements changes, Pre-Planned Product Improvements (P3I) and Diminishing Manufacturing Source (DMS). The approach to contracting varies by individual project. These hardware improvements include but are not limited to flight systems, improved navigation, mux architecture, MMC upgrade, Embedded GPS/INS, Blk 40 Air-to-Air Interrogator (AAI), digital video recorder, Advanced Data Transfer Equipment (ADTE) and related data transfer devices, display upgrades, radio and communication studies, Electronic Warfare (EW), CAS Data Link and other subsystems. Advanced Capability Improvements includes software integration, sensor upgrades, enhanced self-protection/electronic protection (EP), 4th/5th gen fighter network communications, lab and/or on-aircraft evaluation of potential subsystem changes/capability improvements on the F-16 as well as establishment of associated requirement specification changes. These capability improvements also fund integration of pods including updates and tech order changes (SNIPER, LANTIRN, HTS, LITENING, THUNDER POD, Theatre Air Reconnaissance System (TARS/RECCE) etc.</p> <p>f. Beyond Line-of-Sight (BLOS) Communication Capability: The BLOS communication capability modification is in response to the revised AFCENT Urgent Operational Need to install BLOS capability in all fighter aircraft deploying in support of OIF/OEF. This modification will provide a satellite communication (SATCOM) capability to communicate with many rotary wing and ground maneuver units in the theater of operations. BLOS development for Blocks 30/32 received an OMNIBUS reprogramming and funding to initiate Blocks 40-52 development/integration was provided in the FY08 Supplemental Bill.</p>		

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B. Accomplishments/Planned Program (\$ in Millions)											
<table border="1"> <thead> <tr> <th></th> <th>FY 2009</th> <th>FY 2010</th> <th>FY 2011 Base</th> <th>FY 2011 OCO</th> <th>FY 2011 Total</th> </tr> </thead> </table>							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total						
<p>activities that will be performed as part of Phase II development at Ogden including cost and schedule milestones.</p> <p><i>FY 2011 Base Plans:</i> In FY 2011: For the M5.2+ OFP minor release, accomplish operational flight testing, develop technical orders, receive the OFP and data from the vendor, as well as obtain ACC approval to field the M5.2+ Minor Tape OFP which completes the M5+ program. M6.1+ OFP major release, completing the final software design and software development activity and continuing the System Integration Lab and Developmental Flight Testing. Three meetings with the pilots will be held to determine the priorities and detailed design of the M7+ candidates. The 312th will contract with LM Aero to do requirements definition for common development. OO-ALC and the 312th will document agreements on activities that will be performed as part of M7+ Phase III development efforts starting in FY12 at OO-ALC. Final SIL HW asset requirements will be procured as part of the transition of the OFP from LM Aero to OO-ALC.</p> <p><i>FY 2011 OCO Plans:</i> In FY 2011 OCO: Not Applicable.</p>											
<p>MAJOR THRUST: Continue Flight Test DT&E-funds F-16 test & evaluation at the Combined Test Facility, tests subsystem & weapon integration with F-16 OFPs</p> <p><i>FY 2009 Accomplishments:</i> In FY 2009: F-16 Baseline Flight Test funds F-16 test and evaluation at the Combined Test Facility (CTF) at Edwards AFB for Developmental Test (DT) including integration test of associated subsystems and weapons. Includes flight test activities to maintain test schedule for F-16 Block 40/50 Operational Flight Programs (OFPs), weapons integration, and systems to ensure capabilities meet ACC 's fielding schedule. FY09 funding supports CTF infrastructure (Government and Contractor) and DT flight sorties for Block 40/50 M5.1+ OFP DT&E and combined DT/OT, M4.3+ weapons/subsystem regression for JDAM , AIM-9X and AIM-120, and M6+ DT&E risk reduction.</p>						23.832	25.741	24.106	0.000	24.106	

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010				
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B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p><i>FY 2010 Plans:</i> In FY 2010: BLOS RDTE funds required for contractor to support modification and installation of developed BLOS modification kits on designated test aircraft for operational flight test.</p> <p><i>FY 2011 Base Plans:</i> In FY 2011: Not Applicable</p> <p><i>FY 2011 OCO Plans:</i> In FY 2011 OCO: Not Applicable.</p>								
Accomplishments/Planned Programs Subtotals				120.542	141.020	129.103	0.000	129.103
				FY 2009	FY 2010			
<p>Congressional Add: Plus up/Thunder Pod</p> <p><i>FY 2009 Accomplishments:</i> In FY 2009: This is a development effort to integrate Thunder Radar Pod and associated equipment onto the F-16 for testing.</p> <p><i>FY 2010 Plans:</i> In FY 2010: Continue development effort to integrate Thunder Radar Pod and associated equipment onto the F-16 for testing</p>				3.191	1.600			
Congressional Adds Subtotals				3.191	1.600			

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207133F: <i>F-16 SQUADRONS</i>	PROJECT 672671: <i>F-16 Squadrons</i>

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

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE 0207133F: <i>Aircraft Procurement Line Item 40, F-16 Mods</i>	359.816	218.128	162.486	0.000	162.486	77.551	16.507	0.712	0.724	0.000	0.000
• PE 0207445F: <i>Aircraft Procurement Line Item 40, F-16 Mods</i>	0.000	0.000	0.000	0.000	0.000	3.872	3.861	3.926	7.252	0.000	0.000
• PE 0809731F: <i>Aircraft Procurement Line Item 40, F-16 Mods</i>	13.157	4.633	4.702	0.000	4.702	4.775	4.862	4.951	5.049	0.000	0.000
• PE 0207133F (1): <i>Aircraft Procurement, Line Item 89, Post Production Support</i>	2.269	12.910	17.838	0.000	17.838	15.989	16.230	16.395	16.668	0.000	0.000

D. Acquisition Strategy

RDT&E funds will primarily be executed in developing improved capability, maintenance and safety mods. Operational Flight Program (OFP) software will be continuously updated to complement mod development efforts. OFP transition activities to OO-ALC started in FY06 as part of the "follower/leader" effort with software development starting with M7+. The EMD Hardware Development line provides funding to develop, test, and qualify aircraft subsystems upgrades, communication upgrades and Diminishing Manufacturing Source (DMS). The approach to contracting varies by individual project. Lockheed Martin Aeronautics Company (LM Aero) is the prime contractor on all systems except the General Electric Engines and the Pratt & Whitney Engines. Contract types are T&M, CPIF, CPFF and FFP.

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 2011 Air Force **DATE:** February 2010

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Product Development (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
OFP Updates	Various/ Various	Various Various	78.695	105.759	Oct 2009	84.497	Oct 2010	0.000		84.497	Continuing	Continuing	0.000
OFP Transition	Various/ Various	Various Various	7.745	0.000		0.000		0.000		0.000	Continuing	Continuing	0.000
Mode 5 IFF for CAF Aircraft	SS/CPIF	LM Aero Ft Worth, TX	9.100	7.520	Feb 2010	0.000		0.000		0.000	Continuing	Continuing	0.000
Structural Fatigue Test	SS/Various	LM Aero Ft Worth, TX	0.000	0.000		20.000	Jan 2011	0.000		20.000	Continuing	Continuing	0.000
EMD HW/Advanced Capabilities Improvements	SS/Various	LM Aero Ft Worth, TX	0.600	0.500	Mar 2010	0.500	Mar 2011	0.000		0.500	Continuing	Continuing	0.000
BLOS development/integration	Various/ Various	Various Various	0.570	1.500	Dec 2009	0.000		0.000		0.000	0.000	2.070	0.000
Plus up (Thunder Pods)	MIPR	OO-ALC OK	3.191	1.600	Sep 2010	0.000		0.000		0.000	0.000	4.791	0.000
Subtotal			99.901	116.879		104.997		0.000		104.997			0.000

Remarks

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force **DATE:** February 2010

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Test and Evaluation (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Flight Tests	Various/ Various	Various Various	23.832	25.741	Oct 2009	24.106	Oct 2010	0.000		24.106	Continuing	Continuing	0.000
Subtotal			23.832	25.741		24.106		0.000		24.106			0.000

Remarks

Management Services (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Rescission	TBD/TBD	No text provided No text provided	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000

Remarks

Project Cost Totals	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
	123.733	142.620		129.103		0.000		129.103			0.000

Remarks

Total Prior Years Cost may include only FY 2009 data.

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY
 3600: Research, Development, Test & Evaluation, Air Force
 BA 7: Operational Systems Development

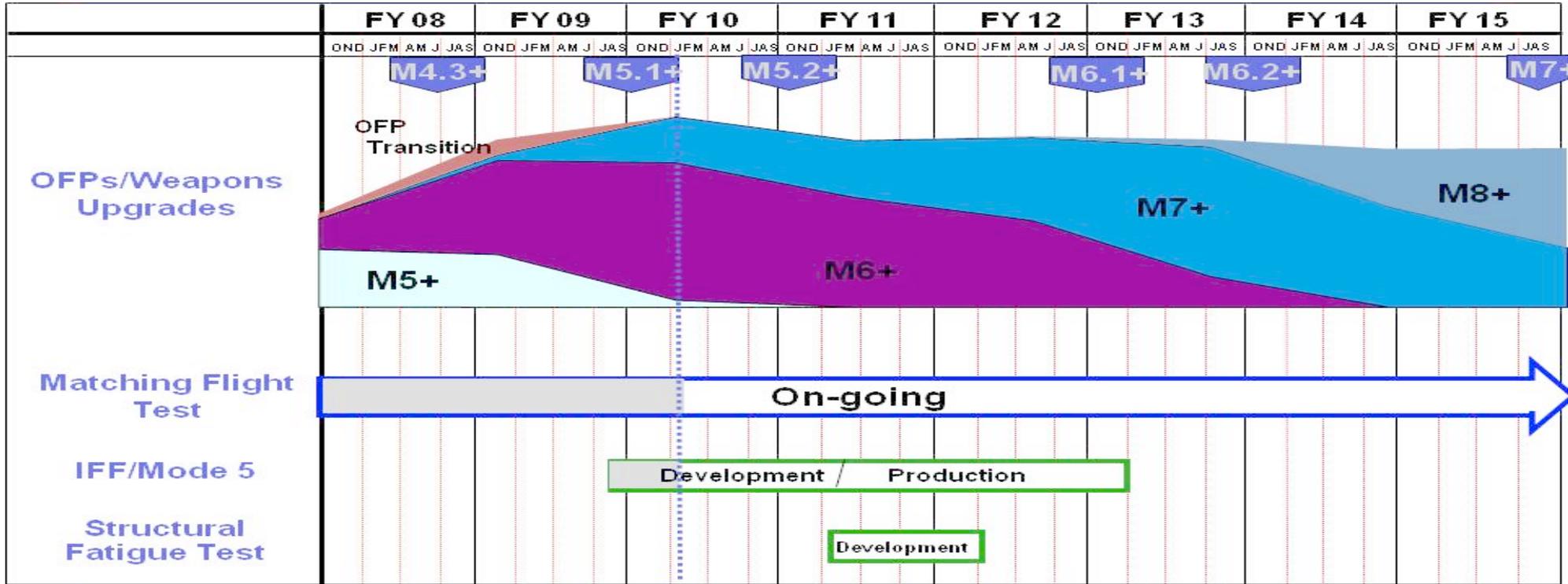
R-1 ITEM NOMENCLATURE
 PE 0207133F: F-16 SQUADRONS

PROJECT
 672671: F-16 Squadrons



F-16 Program Schedule - USAF

U.S. AIR FORCE



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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207133F: <i>F-16 SQUADRONS</i>	PROJECT 672671: <i>F-16 Squadrons</i>

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Flight Test Continuous	1	2009	4	2011
OFP Development, continuous	1	2009	4	2011
OFP Transition activities	1	2009	4	2009
Mode 5 IFF for CAF Aircraft	2	2009	4	2010
Structural Fatigue Test	2	2011	4	2011
EMD Hardware (continuous)	1	2009	4	2011
BLOS	1	2009	4	2010

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