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Exhibit R-2, RDT&E Budget Item Justification: 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 0207163F: Advanced Medium Range Air-to-Air Missile							
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	43.633	49.971	62.922	0.000	62.922	60.935	57.648	76.477	58.317	Continuing	Continuing
673777: AMRAAM	43.633	49.971	62.922	0.000	62.922	60.935	57.648	76.477	58.317	Continuing	Continuing
A. Mission Description and Budget Item Justification											
<p>The Air Force and Navy continue to develop improvements to the Advanced Medium Range Air-to-Air Missile (AMRAAM) to counter existing and emerging air vehicle threats, operating at high or low altitude and having advanced Electronic Attack (EA) capabilities. The AMRAAM Pre-Planned Product Improvement (P3I) program allows the Air Force and Navy to continue a joint research and development program. This enables AMRAAM to be compatible with advanced fighters, enhances AMRAAM capability and operational flexibility against 2010 and beyond threats, incorporates high payoff technology developments, performs risk reduction activities and investigates new variants and/or alternate missions which may use AMRAAM attributes.</p>											
<p>AIM-120D (Phase 4) delivers improved performance via GPS-aided navigation, a two-way datalink capability for enhanced aircrew survivability and improved network compatibility, and incorporates new guidance software which improves kinematic and weapon effectiveness performance. Phase 4 Functional Configuration Audit (FCA) was successfully completed in September 09 with Operational Test (OT) starting in FY10 and Initial Operational Capability (IOC) on the F/A-18 E/F and F-15 C/D expected in FY11. In addition to integration on these IOC platforms, the program includes integration of the missile onto the F-16, F-15E, F-22A, and F-18 C/D.</p>											
<p>To keep the existing inventory as effective as possible, the AF and Navy also develop, test and incorporate improvements that are implemented via software upgrades reprogrammed into fielded weapons, and/or hardware upgrades inserted into production units. AMRAAM is a joint Air Force/Navy, Acquisition Category IC (ACAT IC) program with Air Force as lead service.</p>											
<p>This program is in budget activity 7 - Operational System Development, providing upgrades to AIM-120 missiles currently fielded or in production.</p>											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0207163F: Advanced Medium Range Air-to-Air Missile			
BA 7: Operational Systems Development					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	54.092	49.971	0.000	0.000	0.000
Current President's Budget	43.633	49.971	62.922	0.000	62.922
Total Adjustments	-10.459	0.000	62.922	0.000	62.922
• 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	0.000	0.000			
• Other Adjustments	-10.459	0.000	62.922	0.000	62.922
Change Summary Explanation					
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 0207163F: <i>Advanced Medium Range Air-to-Air Missile</i>				PROJECT 673777: <i>AMRAAM</i>			
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
673777: <i>AMRAAM</i>	43.633	49.971	62.922	0.000	62.922	60.935	57.648	76.477	58.317	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
<p>A. Mission Description and Budget Item Justification</p> <p>The Air Force and Navy continue to develop improvements to the Advanced Medium Range Air-to-Air Missile (AMRAAM) to counter existing and emerging air vehicle threats, operating at high or low altitude and having advanced Electronic Attack (EA) capabilities. The AMRAAM Pre-Planned Product Improvement (P3I) program allows the Air Force and Navy to continue a joint research and development program. This enables AMRAAM to be compatible with advanced fighters, enhances AMRAAM capability and operational flexibility against 2010 and beyond threats, incorporates high payoff technology developments, performs risk reduction activities and investigates new variants and/or alternate missions which may use AMRAAM attributes.</p> <p>AIM-120D (Phase 4) delivers improved performance via GPS-aided navigation, a two-way datalink capability for enhanced aircrew survivability and improved network compatibility, and incorporates new guidance software which improves kinematic and weapon effectiveness performance. Phase 4 Functional Configuration Audit (FCA) was successfully completed in September 09 with Operational Test (OT) starting in FY10 and Initial Operational Capability (IOC) on the F/A-18 E/F and F-15 C/D expected in FY11. In addition to integration on these IOC platforms, the program includes integration of the missile onto the F-16, F-15E, F-22A, and F-18 C/D.</p> <p>To keep the existing inventory as effective as possible, the AF and Navy also develop, test and incorporate improvements that are implemented via software upgrades reprogrammed into fielded weapons, and/or hardware upgrades inserted into production units. AMRAAM is a joint Air Force/Navy, Acquisition Category IC (ACAT IC) program with Air Force as lead service.</p> <p>This program is in budget activity 7 - Operational System Development, providing upgrades to AIM-120 missiles currently fielded or in production.</p>											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
MAJOR THRUST: Provide software upgrades/system improvement/electronic protection (SWUP/SIP/EP)						5.282	29.323	45.097	0.000	45.097	

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: In FY 2009: 1. Continued Concept Refinement/Risk Reduction Program for AIM-120C and D variant AMRAAM missile Electronic Protection Improvement Program (EPIP), maturing tactical software designs in preparation for a Feb 2010 Preliminary Design Review (PDR). 2. Began AIM-120D System Improvement Program (SIP). Awarded initial candidate evaluation and selection contract to identify potential improvement candidates and begin preliminary design and prototyping in preparation for follow-on design implementation efforts. Developed initial upgrade candidate database. Software candidates were derived from Software Change Requests deferred from the Engineering and Manufacturing Development (EMD) phase, findings from pre-Operational Test evaluations, and warfighter-identified priorities. Potential software improvements include but are not limited to guidance algorithm updates for improved lethality and missile kinematics, increased fuzing performance, datalink enhancements, weapon-to-aircraft interface improvements, and EP improvements identified as part of EPIP efforts. Potential hardware candidates include but are not limited to improved signal processing to enable increased future EP capability, kinematic improvements, and power system upgrades to support longer range/time of flight and simplify stores management. In addition, the effort will study efficient/effective integration of other system improvements, parts obsolescence issues, and cost reduction initiatives. Continued effort to complete qualification of the Phase 4 missile design. Continued mission support and provided program management to execute Phase 4 program and SWUP/SIP/EP efforts.						
FY 2010 Plans: In FY 2010: 1. Begin the AIM-120C AMRAAM missile variant (C3-C7) SWUP. Effort will include beginning the first of four planned Candidate Development Set periods in which candidate improvements will be identified, analyzed and selected for development continuation, maturing selected candidates from the first Candidate Development Set to a PDR level of design maturity. The effort will also develop RF fuze signature models for newly defined threat aircraft for use in subsequent SWUP efforts. 2. Electronic Protection - begin EPIP Implementation Phase for AIM120C and D variant AMRAAM missiles. This program will yield two electronic protection improvement S/W releases						

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
(one for C-3 thru C6 missiles and one for C-7 missiles) to be fielded in FY13. AIM-120D missile EP improvements will be released in conjunction with subsequent AIM-120D SIP releases. Tasks include beginning developmental hardware in the loop (HWIL) testing, captive flight test missions, and completing the software designs to a Critical Design Review (CDR) level of technical maturity. 3.) AIM-120D SIP - continue candidate evaluation and selection and preliminary design activities, including lab and/or captive flight tests to provide data necessary to evaluate performance and feasibility of potential upgrades. Conduct quarterly candidate reviews including the warfighter and operational testers will downselect candidates for further evaluation and development in accordance with warfighter requirements and priorities. Incorporate deficiencies noted in the course of AIM-120D OT into the improvement database and evaluate for implementation, with the final downselect resulting in those software candidates to be implemented in a follow-on development efforts. Continue study of efficient/effective integration of other system improvements, parts obsolescence issues, and cost reduction initiatives. Continue mission support and provide program management to execute SWUP/ SIP/EP efforts.						
FY 2011 Base Plans: In FY 2011: 1. Continue the AIM-120C SWUP. Effort will include completing the second and beginning the third of four Candidate Development Set periods in which improvement candidates will be identified, analyzed and selected for development continuation. This will mature a larger set of selected candidates from the 2nd Candidate Development Set to a PDR level of design maturity. 2. Electronic Protection - continue EPIP implementation phase for AIM120C/D variant AMRAAM missiles. Specific tasks include continuing developmental hardware in the loop (HWIL) testing and captive flight test missions, completing software design work, releasing S/W for live fire flight testing, and beginning the live fire flight test program. 3. AIM-120D SIP - PDR for the initial SIP software release will be held, concluding the initial candidate evaluation and selection phase. An implementation contract will be awarded to implement the candidates selected in the initial evaluation and selection phase. Software trouble reports from OT and the field will also be incorporated where possible in the tactical software release developed under this contract. A follow-on contract will be awarded to evaluate remaining and						

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
new software improvement candidates. A concept refinement/risk reduction contract will be awarded to continue evaluation/maturation of and prototyping for selected hardware candidates. Continue mission support and provide program management to execute SWUP/SIP/EP efforts. FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						
MAJOR THRUST: Continue test and evaluation: Provide support to DT/OT FY 2009 Accomplishments: In FY 2009: Completed AIM-120D Developmental Test & Evaluation (DT&E) captive carry and free flight testing on F/A-18E/F and F-15C/D at China Lake and Eglin AFB, respectively. Planned and initiated execution of a DT/OT phase to reduce overall missile/aircraft weapon system risk entering dedicated AIM-120D Operational Test (OT). Continued planning for dedicated OT, and made investments in infrastructure required for dedicated AIM-120D OT, AIM-120D SIP DT/OT, and AIM-120C SWUP activities. FY 2010 Plans: In FY 2010: Complete AIM-120D DT/OT testing. Accomplish OT Readiness Review (OTRR), and certify the missile ready for dedicated OT. Start dedicated OT captive carry and free flight testing on F/A-18E/F and F-15C/D, and continue infrastructure investments to support AIM-120D OT, SIP, and SWUP activities. FY 2011 Base Plans: In FY 2011: Complete AIM-120D dedicated OT and provide USAF/USN fielding recommendations for the AIM-120D missile system, and provide the final AIM-120D dedicated OT report through Service chains to OSD/DOT&E. Continue infrastructure investments to support AIM-120D OT, SIP, and SWUP activities.		15.887	14.096	3.047	0.000	3.047

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						
MAJOR THRUST: Aircraft Integration - Integrate Phase 4 on multiple aircraft platforms FY 2009 Accomplishments: In FY2009: Continued effort to integrate and flight test AIM-120D into the F-15C/D Suite 6M OFP. This OFP supports AIM-120D OT. Effort includes bench testing of missile software updates, aircraft OFP releases, weapon trainer updates and software anomaly investigations and fixes. Funds development/integration of AIM-120D into the F-15E Suite 6E OFP. Effort includes bench testing of missile software updates, aircraft OFP releases, and software anomaly investigations and fixes. Supports the initial development and integration of AIM-120D into the F-16 M6+ OFP. Effort included design, code, SIL testing, flight testing, weapon trainer updates and anomaly investigations and fixes. Provides funding for Raytheon to support all aircraft integration activities on the F-15C/D, F-15E, F-16 and F-22. This effort includes flight test support, bench & SIL test support, AIM-120D asset management and technical review support. FY 2010 Plans: In FY2010: Funding supports F-15C/D Suite 6M fielding and potential OFP updates as a result of AIM-120D OT. Support the AIM-120D F-15E Suite 6E+ flight test effort, to include live launches. Continue F-16 M6+ integration and flight test effort. Fund initial AIM-120D requirement definition and integration into F-22 Increment 3.2. Funds Raytheon to support all aircraft integration activities on the F-15C/D, F-15E, F-16 and F-22. Effort includes flight test support, bench & SIL test support, AIM-120D asset management and technical review support. FY 2011 Base Plans: In FY2011: Continue support of F-15C/D Suite 6M OFP updates as a result of AIM-120D OT. Support the F-15E Suite 6E+ Force Development Evaluation. Continue F-16 M6+ integration and flight test effort, to include live launches. Fund AIM-120D integration and testing into F-22 Increment 3.2.		13.964	6.552	14.778	0.000	14.778

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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Provide funding for Raytheon to support all aircraft integration activities on the F-15C/D, F-15E, F-16 and F-22. This effort includes flight test support, bench & SIL test support, AIM-120D asset management and technical review support. FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.											
MAJOR THRUST: Joint Dual Role Air Dominance Missile (JDRADM) FY 2009 Accomplishments: In FY2009: Risk Reduction continued in the warhead, GIF, and rocket motor; and started UAI effort for the next gen missile. MRROKM completed 3 isotropic warhead live fire tests at 10 targets. SITES brought on second contractor to merge the seeker and proximity fuze of a tactical missile into a single system. FY 2010 Plans: In FY2010: N/A. FY 2011 Base Plans: In FY2011: N/A. FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						8.500	0.000	0.000	0.000	0.000	
Accomplishments/Planned Programs Subtotals						43.633	49.971	62.922	0.000	62.922	
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 0207163F: AMRAAM (BP20)	202.741	272.714	355.358	0.000	355.358	311.456	473.683	458.075	462.619	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: 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 0207163F: Advanced Medium Range Air-to-Air Missile				PROJECT 673777: AMRAAM			
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 0207163F (1): AMRAAM (BP25)	0.211	0.801	0.798	0.000	0.798	0.805	0.805	0.811	0.810	0.000	0.000
• PE 0207163F (2): AMRAAM (BP26)	2.155	0.077	0.079	0.000	0.079	0.082	0.082	0.084	0.085	0.000	0.000
• PE 0207163F (3): AMRAAM (BP22)	5.739	5.249	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
D. Acquisition Strategy											
The AIM-120D development completed Sep 09 with the accomplishment of a successful FCA. Initial AIM-120D production units were delivered beginning in Aug 09 and are continuing per contract requirements. The AIM-120D Missile Performance Specification (MPS) and Interface Control Document (ICD) define the requirement to integrate the Phase 4 AMRAAM onto the F-15, F-16, and F-22A; with integration activities supported via a series of contractual efforts managed via the host platform programs. For AMRAAM upgrades, contracts are awarded to analyze potential candidates to improve the AIM-120C/D configurations to provide the warfighter the capability to counter current and emerging threats. Candidates that are at the appropriate level of technical maturity will be incorporated via a series of design implementation contracts. Less mature high-payoff candidates will continue to be developed further via concept refinement/risk reduction contracts for incorporation in future development 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 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 0207163F: Advanced Medium Range Air-to-Air Missile				PROJECT 673777: AMRAAM					
Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SWUP/SIP/EP	SS/CPFF	Raytheon Tucson, AZ	1.727	27.606	Mar 2010	43.452	Jan 2011	0.000		43.452	Continuing	Continuing	Continuing
Phase 4 Contract FA8675-04-C-0001	SS/CPFF	Raytheon Tucson, AZ	3.504	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing
Aircraft Integration	MIPR	Wright-Patterson AFB Dayton, OH	11.464	6.552	Jan 2010	14.778	Jan 2011	0.000		14.778	Continuing	Continuing	Continuing
JDRADM	Various/ Various	Various Various	8.500	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing
Subtotal			25.195	34.158		58.230		0.000		58.230			
Remarks													
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor Support	WR	Various Various	0.763	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing
JSPO Operations	WR	Various Various	1.788	1.717		1.645		0.000		1.645	Continuing	Continuing	Continuing
Subtotal			2.551	1.717		1.645		0.000		1.645			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010		
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Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Remarks													
Test and Evaluation (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Test	WR	Various Various	15.887	14.096		3.047		0.000		3.047	Continuing	Continuing	Continuing
Subtotal			15.887	14.096		3.047		0.000		3.047			
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			43.633	49.971		62.922		0.000		62.922			
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 0207163F: Advanced Medium Range Air-to-Air Missile

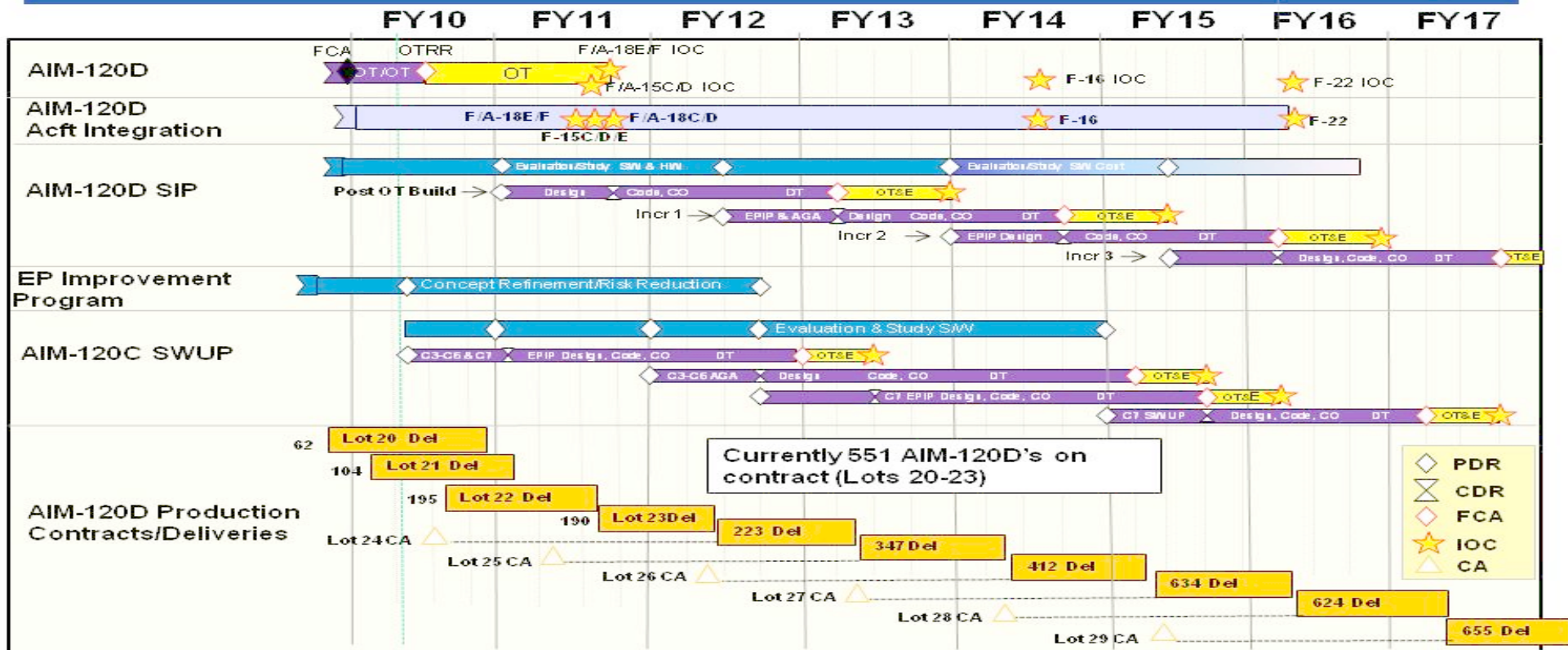
PROJECT

673777: AMRAAM

For Official Use Only



AMRAAM Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Lot 23 (FY09) contract award	3	2009	3	2009
Functional Configuration Audit (FCA)	4	2009	4	2009
SIP contract award	4	2009	4	2009
Lot 24 (FY10) contract award	2	2010	2	2010
AIM-120C EPIP Increment 1 PDR	2	2010	2	2010
EP/SWUP increment 1 contract award	2	2010	2	2010
AIM-120C SWUP contract award	2	2010	2	2010
AIM-120D SIP Post-OT build contract award	1	2011	1	2011
AIM-120D SIP Post-OT build PDR	1	2011	1	2011
Lot 25 (FY11) contract award	2	2011	2	2011

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