PE NUMBER: 0207450F
PE TITLE: E-10 Squadrons

Exhibit R-2, RDT&E Budget Item Justification	DATE: February 2006
BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE: 0207450F E-10 Squadrons

Cost ($ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	390.957	391.006	390.896	593.319	453.212	372.668	142.421	Continuing	TBD
5131 Airframe	198.394	246.663	205.492	424.185	328.803	275.534	123.127	Continuing	TBD
5132 Sensors	192.563	144.343	185.404	169.134	124.409	97.134	19.294	Continuing	TBD

(U) 1. In FY 2006, this PE was renamed E-10 Squadrons (formerly Multi-sensor Command and Control Aircraft [MC2A]). The name was changed to directly associate the PE title with the E-10A, the approved Mission Design Series (MDS) designation for the MC2A.
(U) 2. In FY 2006, Project Number 5131, MC2A Airframe, was changed to Airframe since the term MC2A was no longer being used to identify the aircraft and the new PE title already referenced the aircraft type.
(U) 3. In FY 2006, Project Number 5132, MC2A Sensors, was changed to Sensors since the term MC2A was no longer being used to identify the aircraft and the new PE title already referenced the aircraft type.

(U) A. Mission Description and Budget Item Justification

The E-10 is a key node of the C2 Constellation (see PE 0207449F) bringing operational command and control to the joint warfighter through the use of advanced sensors, sensor fusion, network-centric warfare and high-speed, wide-band communications systems. The E-10 aircraft series will employ both on-board and off-board sensors, communications, data links, and battle management integration software to execute the full range of military operations. The E-10 will interface with multi-Service ground/air/space-based sensors, intelligence and communications assets to shorten the decision cycle for combat operations. The E-10 will enable the detection, designation, and prosecution of time critical targets by providing battlespace situational awareness. The result is weapons-quality target cueing for joint and coalition shooters to engage time sensitive cruise missiles and other fleeting high-priority targets.

The E-10A, equipped with the Multi-Platform Radar Technology Insertion Program (MP-RTIP) radar, will deliver a focused Air Moving Target Indicator (AMTI) capability for Cruise Missile Defense (CMD); an advanced, next-generation Ground Moving Target Indicator (GMTI) and Synthetic Aperture Radar (SAR) imaging capability for surface surveillance; and an open-system architecture to facilitate dynamic Battle Management, Command & Control (BMC2) with growth potential for Unmanned Aerial Vehicle (UAV) control, space radar interface and Intelligence, Surveillance and Reconnaissance (ISR) management functions. The initial spiral of E-10A Increment 1 will deliver the core capability to perform the focused AMTI and GMTI missions to include data processing and advanced communications links. Future spirals within E-10A Increment 1 are envisioned to incorporate sensor fusion, advanced battle management functions, UAV control, space radar integration and laser communications, while future E-10 increments are envisioned to incorporate advanced sensors for air surveillance operations.

The MP-RTIP program will also provide a radar for a robust Global Hawk reconnaissance capability. It also continues to support NATO Alliance Ground Surveillance (AGS) radar conceptual design and early decision analysis activities to support OSD's strategy for the United States' involvement in the NATO AGS program.

This program is categorized as Budget Activity (BA) 5 to reflect a program in System Development and Demonstration (SDD). MP-RTIP entered SDD in FY04; the E-10A program is in the Pre-SDD, or Technology Development, phase with the testbed aircraft supporting flight test for the MP-RTIP SDD program.

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2006
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207450F E-10 Squadrons

(U) B. Program Change Summary ($ in Millions)

		FY 2005	FY 2006	FY 2007
(U)	Previous President's Budget	419.006	397.011	389.245
(U)	Current PBR/President's Budget	390.957	391.006	390.896
(U)	Total Adjustments	-28.049	-6.005	
(U)	Congressional Program Reductions	-0.541	-0.348	
	Congressional Rescissions		-5.657	
	Congressional Increases			
	Reprogrammings	-15.979		
	SBIR/STTR Transfer	-11.529		

(U) Significant Program Changes:

(1) FY 2005 Reprogrammings include $6.056M for Omnibus as well as $9.923M for higher Department priorities.

(2) The current E-10 program has been restructured as a Technology Development (pre-SDD) program anticipating a Milestone B decision in FY11 followed by a weapon system SDD phase and subsequent production phase. There has been no change to the current RDT&E effort leading to a Milestone B. Future programmatic and funding decisions are under Department consideration.

Exhibit R-2a, RDT&E Project Justification			DATE: February 2006
BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE: 0207450F E-10 Squadrons	PROJECT NUMBER AND TITLE: 5131 Airframe	

Cost ($ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5131 Airframe	198.394	246.663	205.492	424.185	328.803	275.534	123.127	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	1		

(U) 1. In FY 2006, this PE was renamed E-10 Squadrons (formerly Multi-sensor Command and Control Aircraft [MC2A]). The name was change to directly associate the PE title with the E-10A, the approved Mission Design Series (MDS) designation for the MC2A.

(U) 2. In FY 2006, Project Number 5131, MC2A Airframe, was changed to Airframe since the term MC2A was no longer being used to identify the aircraft and the new PE title already referenced the aircraft type.

(U) 3. FYDP RDT&E Article Deliveries:

FY 2011: 1 E-10A Testbed Aircraft (Commercial 767-400ER delivered in FY 2008 for modification to testbed configuration)

(U) A. Mission Description and Budget Item Justification

This project is established to design, develop, and integrate modifications to a wide-body aircraft to host multiple sensor configurations with integrated Battle Management Command & Control (BMC2). The E-10 is a key node of the C2 Constellation (see PE 0207449F) bringing operational command and control to the joint warfighter through the use of advanced sensors, sensor fusion, network-centric warfare and high-speed, wide band communications systems. The E-10 aircraft series will employ both on-board and off-board sensors, communications, data links, and battle management integration software to execute the full range of military operations. The E-10 will interface with multi-Service ground/air/space-based sensors, intelligence and communications assets to shorten the decision cycle for combat operations. The E-10 will enable the detection, designation, and prosecution of time critical targets by providing battlespace situational awareness. The result is weapons-quality target cueing for joint and coalition shooters to engage time sensitive cruise missiles and other fleeting high-priority targets.

The E-10A, equipped with the Multi-Platform Radar Technology Insertion Program (MP-RTIP) radar, will deliver a focused Air Moving Target Indicator (AMTI) capability for Cruise Missile Defense (CMD); an advanced, next-generation Ground Moving Target Indicator (GMTI) and synthetic Aperture Radar (SAR) imaging capability for surface surveillance; and an open-system architecture to facilitate dynamic BMC2 with growth potential for Unmanned Aerial Vehicle (UAV) control, space radar interface and Intelligence, Surveillance and Reconnaissance (ISR) management functions. The initial spiral of E-10A's Increment 1 will deliver the core capability to perform the focused AMTI and GMTI missions to include data processing and advanced communications links. Future spirals within E-10A Increment 1 are envisioned to incorporate sensor fusion, advanced battle management functions, UAV control, space radar integration and laser communications, while future E-10 increments are envisioned to incorporate advanced sensors for air surveillance operations.

The E-10 technology development program's primary objectives are to conduct developmental flight test and verification of the MP-RTIP Wide Area Surveillance (WAS) radar capability and demonstrate the end-to-end cruise missile defense capabilities of the MP-RTIP WAS radar and associated BMC2. After successfully completing the technology development phase, the program anticipates a Milestone B in FY11 followed by a System Development and Demonstration (SDD) phase and a Production phase.

Funds in this project will be used to: (1) incrementally fund the purchase of a Boeing 767-400ER aircraft to serve as the testbed for the wide-area surveillance "large-sized" variant of the MP-RTIP radar system, (2) design, develop, and modify the "green"commercial 767-400ER platform to provide the technology testbed, (3)

Exhibit R-2a, RDT&E Project Justification		DATE February 2006
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207450F E-10 Squadrons	PROJECT NUMBER AND TITLE 5131 Airframe

support Weapon System Integration activities to include development of key BMC2 communications and computing applications to prove out the MP-RTIP radar and establish future BMC2 architectures for the E-10A, (4) pursue future studies/spiral development to support continuous improvement and implementation of Command & Control, Intelligence, Surveillance, and Reconnaissance (C2ISR) capabilities.

This program is categorized as Budget Activity (BA) 5 to reflect a program in Technology Development (Pre-System Development and Demonstration (Pre-SDD)), with the testbed aircraft supporting flight test for the MP-RTIP SDD program.

(U)	**B. Accomplishments/Planned Program ($ in Millions)**	FY 2005	FY 2006	FY 2007
(U)	Continue Weapon System Integration (WSI) efforts (including BMC2 efforts)--beginning with a demonstration aircraft and necessary BMC2 to prove the Key Performance Parameters (KPPs) and basic radar requirements associated with the WAS/MP-RTIP sensor	150.935	157.950	146.036
(U)	Continue incremental funding of a 767-400ER testbed	10.000	30.000	25.000
(U)	Purchase MP-RTIP Lab/Test Hardware (Development Unit) materials	14.361	23.639	0.000
(U)	Continue systems engineering and design activities	20.374	31.295	29.238
(U)	Continue Test & Evaluation Efforts (examples include Joint Test Force (JTF), Air Force Operational Test and Evaluation Center (AFOTEC), Operator-In-The-Loop (OITL), Joint Interoperability Test Center (JITC))	1.415	1.008	2.468
(U)	Conduct Future Studies/Spiral Development--includes concept exploration, program definition/risk reduction (including BMC2 efforts), technology insertion/development, and spiral development efforts supporting continuous improvement and implementation of Command & Control, Intelligence, Surveillance, and Reconnaissance (C2ISR) capabilities enabling the joint air and cruise missile defense architecture, joint decisive operations and the AEF Task Force CONOPS.	0.189	0.520	0.540
(U)	Continue program office operations effort	1.120	2.251	2.210
(U)	Total Cost	198.394	246.663	205.492

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

	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
(U) AF RDT&E									
(U) PE 0207450F Project 5132 (Sensors)	192.563	144.343	185.404	169.134	124.409	97.134	19.294	Continuing	TBD

(U) D. Acquisition Strategy

OSD directed a restructure of the E-10A program in FY06. The overall acquisition strategy is based upon evolutionary acquisition. The E-10A Increment 1 capability will deliver the core capability to perform focused AMTI for CMD and GMTI/SAR for surface surveillance, including data processing and advanced communications links. Future spirals will be incorporated as funding and technology allow.

Exhibit R-2a, RDT&E Project Justification		DATE February 2006
BUDGET ACTIVITY **05 System Development and Demonstration (SDD)**	PE NUMBER AND TITLE **0207450F E-10 Squadrons**	PROJECT NUMBER AND TITLE **5131 Airframe**

The proposed acquisition strategy focuses on technology development/risk reduction, with emphasis on demonstrating a Cruise Missile Defense capability coupled with interleaved Ground Moving Target Indicator (GMTI) and Synthetic Aperture Radar (SAR) capabilities. This will allow entry into a low-risk SDD phase for the E-10 Weapon System. Follow on funding for SDD and production is under Department consideration.

Exhibit R-3, RDT&E Project Cost Analysis

DATE: **February 2006**

BUDGET ACTIVITY: **05 System Development and Demonstration (SDD)**

PE NUMBER AND TITLE: **0207450F E-10 Squadrons**

PROJECT NUMBER AND TITLE: **5131 Airframe**

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development												
Weapon System Integration (WSI) and Battle Management Command & Control (BMC2)	SS/CPAF	Northrop Grumman Corporation; Melbourne, FL		150.935	Oct-04	157.950	Dec-05	146.036	Oct-06	Continuing	TBD	TBD
767-400ER Testbed	SS/FFP	The Boeing Company; Seattle, WA		10.000	Oct-04	30.000	Oct-05	25.000	Oct-06	Continuing	TBD	TBD
MP-RTIP Lab/Test Hardware (Development Unit)	SS/CPAF	Northrop Grumman Corporation (MP-RTIP); El Segundo, CA		14.361	Feb-05	23.639	Jan-06	0.000	Nov-06	Continuing	TBD	TBD
Systems Engineering	Various	Various		11.152	Oct-04	22.327	Nov-05	19.616	Oct-06	Continuing	TBD	TBD
Future Studies/Spiral Development	Various	Various		0.189	Jun-05	0.520	Jan-06	0.540	Jan-07	Continuing	TBD	TBD
Subtotal Product Development			0.000	186.637		234.436		191.192		Continuing	TBD	TBD
Remarks:												
(U) Test & Evaluation												
AFOTEC	AF Form 616	Various		0.155	Dec-04	0.000	Dec-05	0.837	Dec-06	Continuing	TBD	TBD
Joint Test Force (JTF)	Various	Various		0.985	Dec-04	0.721	Dec-05	0.938	Dec-06	Continuing	TBD	TBD
Operator-In-The-Loop (OITL)	MIPR	Hanscom AFB, MA		0.217	Apr-05	0.228	Jan-06	0.574	Dec-06	Continuing	TBD	TBD
Joint Interoperability Test Center (JITC)	MIPR	Interop Joint Venture, VA		0.058	Jan-05	0.059	Jan-06	0.119	Dec-06	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	1.415		1.008		2.468		Continuing	TBD	TBD
Remarks:												
(U) Management												
Program Office Support	Various	Various		1.120	Oct-04	2.251	Dec-05	2.210	Oct-06	Continuing	TBD	TBD
Systems Engineering/IV&V (FFRDC)	SS/CPFF	MITRE Corporation; Bedford, MA		9.222	Oct-04	8.968	Nov-05	9.622	Oct-06	Continuing	TBD	TBD
Subtotal Management			0.000	10.342		11.219		11.832		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			0.000	198.394		246.663		205.492		Continuing	TBD	TBD

Remarks: FY2003 and FY2004 reflected in PE 0207449F C2 Constellation, Project 5064 (Airframe).

Exhibit R-4, RDT&E Schedule Profile		DATE February 2006
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207450F E-10 Squadrons	PROJECT NUMBER AND TITLE 5131 Airframe

E-10A Program
Pre-SDD – Technology Development

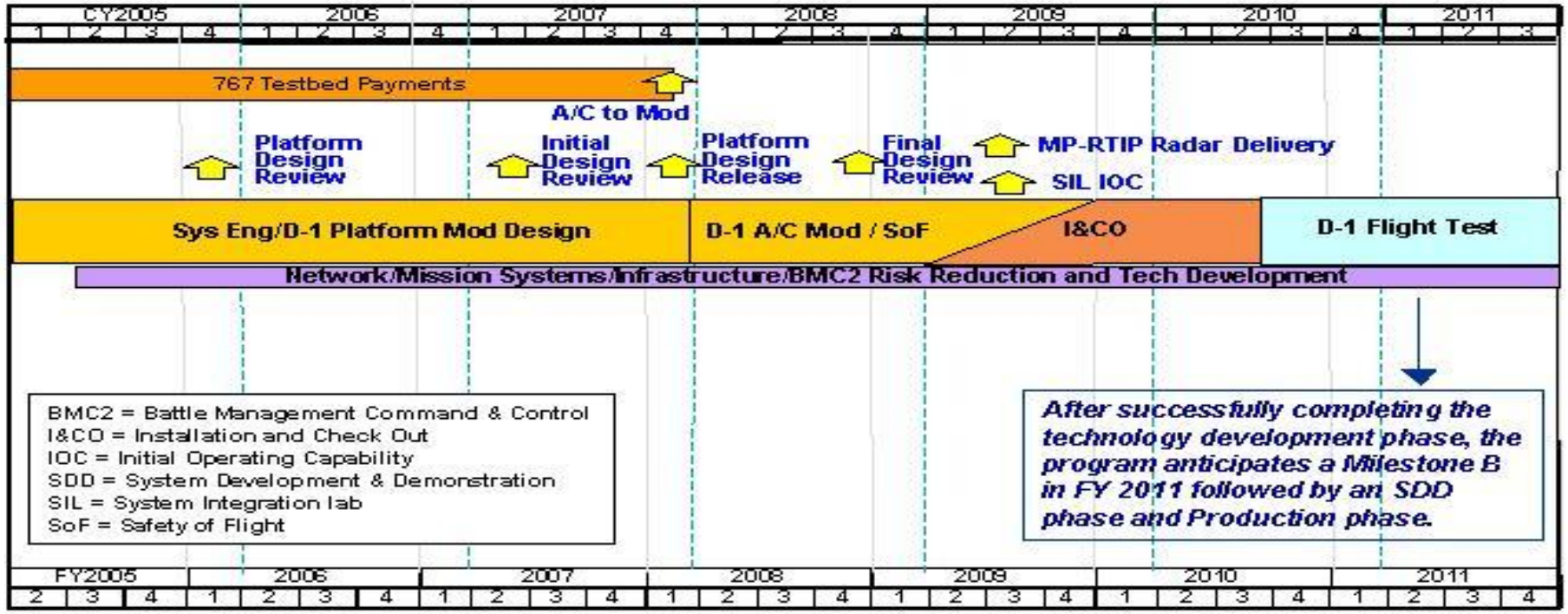

Exhibit R-4a, RDT&E Schedule Detail		DATE: February 2006
BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE: 0207450F E-10 Squadrons	PROJECT NUMBER AND TITLE: 5131 Airframe

(U) Schedule Profile	FY 2005	FY 2006	FY 2007
(U) System Engineering/D-1 Platform Modification Design	1-4Q	1-4Q	1-4Q
(U) Network/Mission Systems/Infrastructure/BMC2 Risk Reduction and Technology Development	3-4Q	1-4Q	1-4Q
(U) Platform Design Review		1Q	
(U) Testbed Initial Design Review (IDR)			2Q

Exhibit R-2a, RDT&E Project Justification

DATE: February 2006

BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE: 0207450F E-10 Squadrons

PROJECT NUMBER AND TITLE: 5132 Sensors

Cost ($ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5132 Sensors	192.563	144.343	185.404	169.134	124.409	97.134	19.294	Continuing	TBD
Quantity of RDT&E Articles	0	1	1	1	1	1	0		

(U) 1. In FY 2006, this PE was renamed E-10 Squadrons (formerly Multi-sensor Command and Control Aircraft [MC2A]). The name was changed to directly associate the PE title with the E-10A, the approved Mission Design Series (MDS) designation for MC2A.

(U) 2. In FY 2006, Project 5132, MC2A Sensors, was changed to Sensors since the term MC2A was no longer being used to identify the aircraft and the new PE title already referenced the aircraft type.

(U) 3. FYDP RDT&E Article Deliveries:

FY 2006: 1 Global Hawk (GH) Development Unit (DU) radar for integration

FY 2007: 1 GH DU radar for integration

FY 2008: 1 GH DU radar for radar lab mode checkout and troubleshooting

FY 2009: 1 Wide Area Surveillance (WAS) DU radar for System Integration Lab (SIL), concurrent mode development, testbed/flight test

FY 2010: 1 WAS DU radar for SIL

(U) A. Mission Description and Budget Item Justification

This project is established to develop a family of modular, scalable next generation sensors for multiple platforms to support network centric operations with integrated intelligence, surveillance, and reconnaissance capability.

The Multi-Platform Radar Technology Insertion Program (MP-RTIP) radar, a modular, scalable, two-dimensional active electronically scanned array (2D-AESA) radar, is the sensor capability of the E-10A Increment 1 weapon system to provide cruise missile defense and improved ground moving target indicator (GMTI)/synthetic aperture radar (SAR) imaging. MP-RTIP will deliver a "large sensor" variant for the E-10A aircraft, and a "small sensor" variant for the Global Hawk.

Funds in this project will be used for the development, fabrication, and test of the MP-RTIP family of scaleable radars on the various platforms (E-10A and Global Hawk). The project also continues to support NATO Alliance Ground Surveillance (AGS) conceptual design and early design development activities.

This project is categorized as Budget Activity (BA) 5 to reflect a program in System Development and Demonstration (SDD).

(U) B. Accomplishments/Planned Program ($ in Millions)	FY 2005	FY 2006	FY 2007
(U) Continue MP-RTIP design and development of radars for integration on the E-10A and Global Hawk target platforms	190.933	141.429	183.473
(U) Continue Future Studies/Spiral Development insertion-- includes concept exploration, program definition/risk reduction, sensor technology insertion/development and spiral development efforts supporting continuous improvements and implementation of Command & Control, Intelligence, Surveillance, and Reconnaissance (C2ISR) capabilities enabling the joint air and missile defense architecture, joint decisive operations and the AEF Task Force	0.191	0.500	0.350

Exhibit R-2a, RDT&E Project Justification		DATE February 2006
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207450F E-10 Squadrons	PROJECT NUMBER AND TITLE 5132 Sensors

(U) B. Accomplishments/Planned Program ($ in Millions)

		FY 2005	FY 2006	FY 2007
	CONOPS.			
(U)	Continue Test Efforts (examples include Operator-In-The-Loop [OITL]; Joint Test Force Support; AFOTEC Support; and Independent Verification & Validation [IV&V])	1.164	2.122	1.285
(U)	Continue program office operations	0.275	0.292	0.296
(U)	Total Cost	192.563	144.343	185.404

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

		FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
(U)	AF RDT&E									
(U)	PE 0207450F Project 5131 (E-10 Airframe)	198.394	246.663	205.492	424.185	328.803	275.534	123.127	Continuing	TBD
(U)	PE0305220F Project 5144 (Global Hawk MP-RTIP Sensor)	33.200	17.600	7.684	0.000	0.000	0.000	0.000	Continuing	TBD

(U) D. Acquisition Strategy

The MP-RTIP program supports the evolutionary acquisition of the E-10A and Global Hawk by providing sensors for Increment 1 of the E-10A and Spiral 4 of the Global Hawk. The MP-RTIP program currently plans to provide 2 WAS and 3 GH RDT&E sensors. The production funds within the respective Global Hawk and E-10A programs will fund production MP-RTIP sensors for their respective operational platforms.

Exhibit R-3, RDT&E Project Cost Analysis

DATE: February 2006

BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE: 0207450F E-10 Squadrons

PROJECT NUMBER AND TITLE: 5132 Sensors

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development												
MP-RTIP	SS/CPAF	Northrop-Grumman Corporation; El Segundo, CA		186.810	Nov-04	137.586	Jan-06	179.881	Nov-06	Continuing	TBD	TBD
Future Studies/Spiral Development	Various	TBD		0.191	Jun-05	0.500	Jan-06	0.350	Nov-06	Continuing	TBD	TBD
Subtotal Product Development			0.000	187.001		138.086		180.231		Continuing	TBD	TBD
Remarks:												
(U) Test & Evaluation												
JTF Support	SS/T&M	Titan Systems Corporation; Melbourne, FL		0.614	Dec-04	1.237	Jan-06	0.707	Dec-06	Continuing	TBD	TBD
Test Support (AFOTEC, IV&V)	MIPR	Various		0.550	Jul-05	0.885	Jan-06	0.578	Oct-06	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	1.164		2.122		1.285		Continuing	TBD	TBD
Remarks:												
(U) Management												
Program Office Support	Various	Various		0.275	Oct-04	0.292	Jan-06	0.296	Oct-06	Continuing	TBD	TBD
Systems Engineering/IV&V (FFRDC)	SS/CPFF	MITRE Corporation; Hanscom AFB, MA		4.123	Oct-04	3.843	Dec-05	3.592	Oct-06	Continuing	TBD	TBD
Subtotal Management			0.000	4.398		4.135		3.888		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			0.000	192.563		144.343		185.404		Continuing	TBD	TBD

Remark: FY 2002 and prior reflected in PE 0207581F, Joint STARS
FY 2003 and FY 2004 reflected in PE 0207449F C2 Constellation, Project 5065 (Sensors)

Exhibit R-4, RDT&E Schedule Profile		DATE February 2006
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207450F E-10 Squadrons	PROJECT NUMBER AND TITLE 5132 Sensors

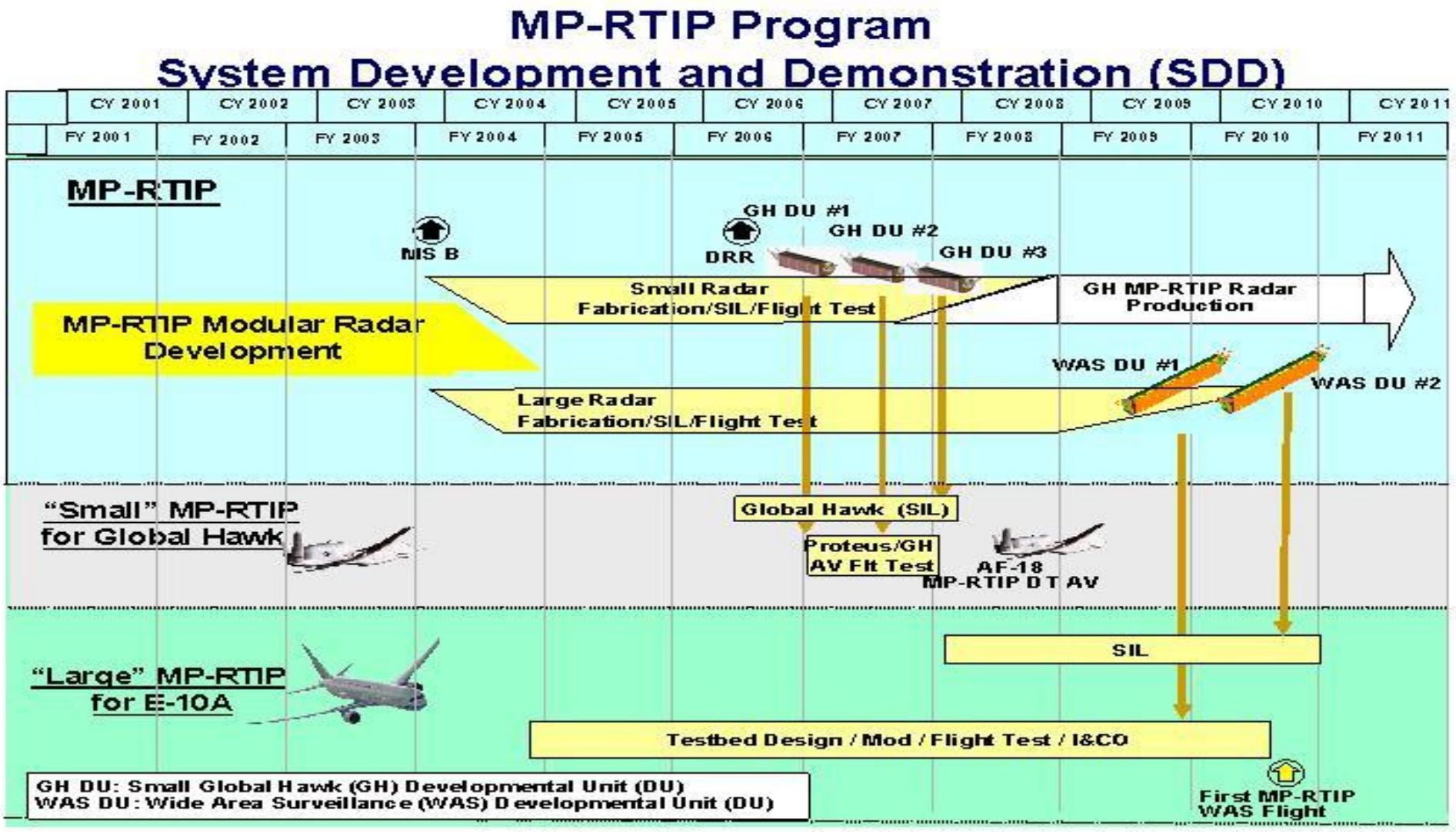

Exhibit R-4a, RDT&E Schedule Detail

DATE: February 2006

BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE: 0207450F E-10 Squadrons

PROJECT NUMBER AND TITLE: 5132 Sensors

(U) Schedule Profile	FY 2005	FY 2006	FY 2007
(U) SMALL RADAR (GLOBAL HAWK) DEVELOPMENT	1-4Q	1-4Q	1-4Q
(U) GLOBAL HAWK (GH) DEVELOPMENT UNIT (DU) #1 BUILD	1-4Q	1-4Q	
(U) GH DU #2 BUILD	3-4Q	1-4Q	1-2Q
(U) GH DU #3 BUILD		1-4Q	1-4Q
(U) GH DU # 1 FLIGHT TEST (ON PROTEUS SURROGATE)		4Q	1-2Q
(U) GH DU#1 TO SIL			2-4Q
(U) GH DU # 2 FLIGHT TEST (ON PROTEUS SURROGATE)			2-4Q
(U) LARGE RADAR (WAS) DEVELOPMENT	1-4Q	1-4Q	1-4Q
(U) WAS DU #1 BUILD		2-4Q	1-4Q
(U) DESIGN READINESS REVIEW		3Q	