

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2007
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207450F E-10 Squadrons
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	378.871	366.012	39.703	42.568	0.000	0.000	0.000	0.000	Continuing	TBD
5131 Airframe	247.140	181.429	0.371	0.000	0.000	0.000	0.000	0.000	0.000	478.675
5132 Sensors	131.731	184.583	39.332	42.568	0.000	0.000	0.000	0.000	Continuing	TBD

(U) Remark: Direction to terminate the E-10 program (Project 5131 - Airframe), as well as the E-10 portion of the MP-RTIP radar development (part of Project 5132 - Sensors), is expected during FY07. FY08 PBR includes funding to complete the Global Hawk MP-RTIP Development Units (DU).

(U) **A. Mission Description and Budget Item Justification**

The E-10 was intended to be 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 would have employed 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 would have interfaced with multi-Service ground/air/space-based sensors, intelligence and communications assets to shorten the decision cycle for combat operations. The E-10 would have enabled the detection, designation, and prosecution of time critical targets by providing battlespace situational awareness. The result would have been 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, would have delivered 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 would have delivered 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 were envisioned to incorporate sensor fusion, advanced battle management functions, UAV control, space radar integration and laser communications, while future E-10 increments were envisioned to incorporate advanced sensors for air surveillance operations.

The MP-RTIP program will continue to provide a radar for a robust Global Hawk reconnaissance capability. The MP-RTIP equipped Global Hawk defines the Global Hawk Block 40 configuration which provides persistent ISR, including GMTI, SAR imaging, and limited AMTI capabilities. Global Hawk Block 40 will not provide a CMD capability. MP-RTIP will continue 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 Pre-SDD, or Technology Development, with the testbed aircraft supporting flight test for the MP-RTIP SDD program.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	391.006	390.896	593.319	453.212
(U) Current PBR/President's Budget	378.871	366.012	39.703	42.568
(U) Total Adjustments	-12.135	-24.884		
(U) Congressional Program Reductions		-0.708		
Congressional Rescissions		-1.476		
Congressional Increases				
Reprogrammings	-1.368	-22.700		
SBIR/STTR Transfer	-10.767			

(U) **Significant Program Changes:**

- (1) The E-10 program was restructured as a Technology Development (pre-SDD) Program during FY06.
- (2) Direction to terminate the E-10 program and the E-10 MP-RTIP radar development is expected during FY07. FY08 PB includes funding to complete the Global Hawk MP-RTIP Development Units (DU).

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05 System Development and Demonstration (SDD)				0207450F E-10 Squadrons				5131 Airframe		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
5131 Airframe	247.140	181.429	0.371	0.000	0.000	0.000	0.000	0.000	0.000	478.675
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) Remarks:

1. Direction to terminate the E-10 program (Project 5131 - Airframe) is expected during FY07.
2. FYDP RDT&E Article Deliveries:
FY 2008: 1 E-10A Testbed Aircraft (Commercial 767-400ER delivered in FY 2008)

(U) **A. Mission Description and Budget Item Justification**

This project was 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 would have been 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 would have employed 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 would have interfaced with multi-Service ground/air/space-based sensors, intelligence and communications assets to shorten the decision cycle for combat operations. The E-10 would have enabled the detection, designation, and prosecution of time critical targets by providing battlespace situational awareness. The result would have been 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, would have delivered 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 would have delivered 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 were envisioned to incorporate sensor fusion, advanced battle management functions, UAV control, space radar integration and laser communications, while future E-10 increments were envisioned to incorporate advanced sensors for air surveillance operations.

The E-10 technology development program's primary objectives were 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. Direction to terminate the E-10A Program is expected in FY07.

Funds in this project have been 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 and develop the technology testbed modifications, (3) 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, (4) pursue future studies/spiral development to support continuous improvement and implementation of Command & Control, Intelligence, Surveillance, and Reconnaissance

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(C2ISR) capabilities including leveraging BMC2 development for other enterprise applications.

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)	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) 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 until termination decision, then terminate.	166.270	105.213	0.000	0.000
(U) Incremental funding of a 767-400ER testbed.	30.000	59.600	0.000	0.000
(U) Purchase MP-RTIP Lab/Test Hardware (Development Unit) materials.	36.586	0.000	0.000	0.000
(U) Systems engineering and design activities until termination decision, then terminate.	13.174	13.655	0.000	0.000
(U) 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)) until termination decision, then terminate.	0.495	1.895	0.000	0.000
(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 until termination decision, then terminate.	0.000	0.150	0.000	0.000
(U) Program office operations effort until termination decision, then terminate.	0.615	0.916	0.371	0.000
(U) Total Cost	247.140	181.429	0.371	0.000

(U) C. Other Program Funding Summary (\$ in Millions)	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to Complete</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>								
(U) AF RDT&E										
(U) PE 0207450F Project 5132 (Sensors)	131.731	184.583	39.332	42.568	0.000	0.000	0.000	0.000	0.000	Continuing TBD

(U) Remark: Direction to terminate the E-10 portion of the MP-RTIP radar development is expected during FY07. FY08 PBR includes funding to complete the Global Hawk MP-RTIP Development Units (DU).

(U) D. Acquisition Strategy
On 30 May 2006, OSD(AT&L) approved the acquisition strategy focusing 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 would have

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allowed entry into a low-risk SDD phase for the E-10 Weapon System. A decision to terminate the E-10A Program and associated E-10A MP-RTIP Wide Area Surveillance radar development is expected in FY07.

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Exhibit R-3, RDT&E Project Cost Analysis												DATE February 2007		
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 2006 Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) <u>Product Development</u>														
Weapon System Integration (WSI) and Battle Management Command & Control (BMC2)	SS/CPAF	Northrop Grumman Corporation; Melbourne, FL	375.685	166.270	Oct-05	105.213	Oct-06	0.000		0.000		0.000	647.168	TBD
767-400ER Testbed	SS/FFP	The Boeing Company; Seattle, WA	34.999	30.000	Oct-05	59.600	Oct-06	0.000		0.000		0.000	124.599	TBD
MP-RTIP Lab/Test Hardware (Development Unit)	SS/CPAF	Northrop Grumman Corporation (MP-RTIP); El Segundo, CA	35.314	36.586	Feb-06	0.000		0.000		0.000		0.000	71.900	TBD
Systems Engineering	Various	Various	21.887	3.362	Jan-06	4.579	Oct-06	0.000		0.000		0.000	29.828	TBD
Future Studies/Spiral Development	Various	Various	37.405	0.000		0.150	Dec-06	0.000		0.000		0.000	37.555	TBD
Subtotal Product Development			505.290	236.218		169.542		0.000		0.000		0.000	911.050	TBD
Remarks:														
(U) <u>Test & Evaluation</u>														
AFOTEC	AF Form 616	Various	0.309	0.000		0.000		0.000		0.000		0.000	0.309	TBD
Joint Test Force (JTF)	Various	Various	1.947	0.495	Feb-06	1.659	Oct-06	0.000		0.000		0.000	4.101	TBD
Operator-In-The-Loop (OITL)	MIPR	Hanscom AFB, MA	0.217	0.000		0.217	Jan-07	0.000		0.000		0.000	0.434	TBD
Joint Interoperability Test Center (JITC)	MIPR	Interop Joint Venture, VA	0.058	0.000		0.019	Dec-06	0.000		0.000		0.000	0.077	TBD
Subtotal Test & Evaluation			2.531	0.495		1.895		0.000		0.000		0.000	4.921	TBD
Remarks:														
(U) <u>Management</u>														
Program Office Support	Various	Various	2.661	0.615	Oct-05	0.916	Oct-06	0.371	Oct-07	0.000		0.000	4.563	TBD
Systems Engineering/IV&V (FFRDC)	SS/CPFF	MITRE Corporation; Bedford, MA	27.000	9.812	Nov-05	9.076	Oct-06	0.000		0.000		0.000	45.888	TBD
Subtotal Management			29.661	10.427		9.992		0.371		0.000		0.000	50.451	TBD
Remarks:														
(U) Total Cost			537.482	247.140		181.429		0.371		0.000		0.000	966.422	TBD
Remarks:														
FY2003 and FY2004 reflected in PE 0207449F C2 Constellation, Project 5064 (Airframe).														
FY08 767-400ER Testbed payment of \$34.6M is anticipated to be made in FY08 using FY07 funds recouped from the WSI/BMC2 contract after termination decision.														

Exhibit R-4, RDT&E Schedule Profile

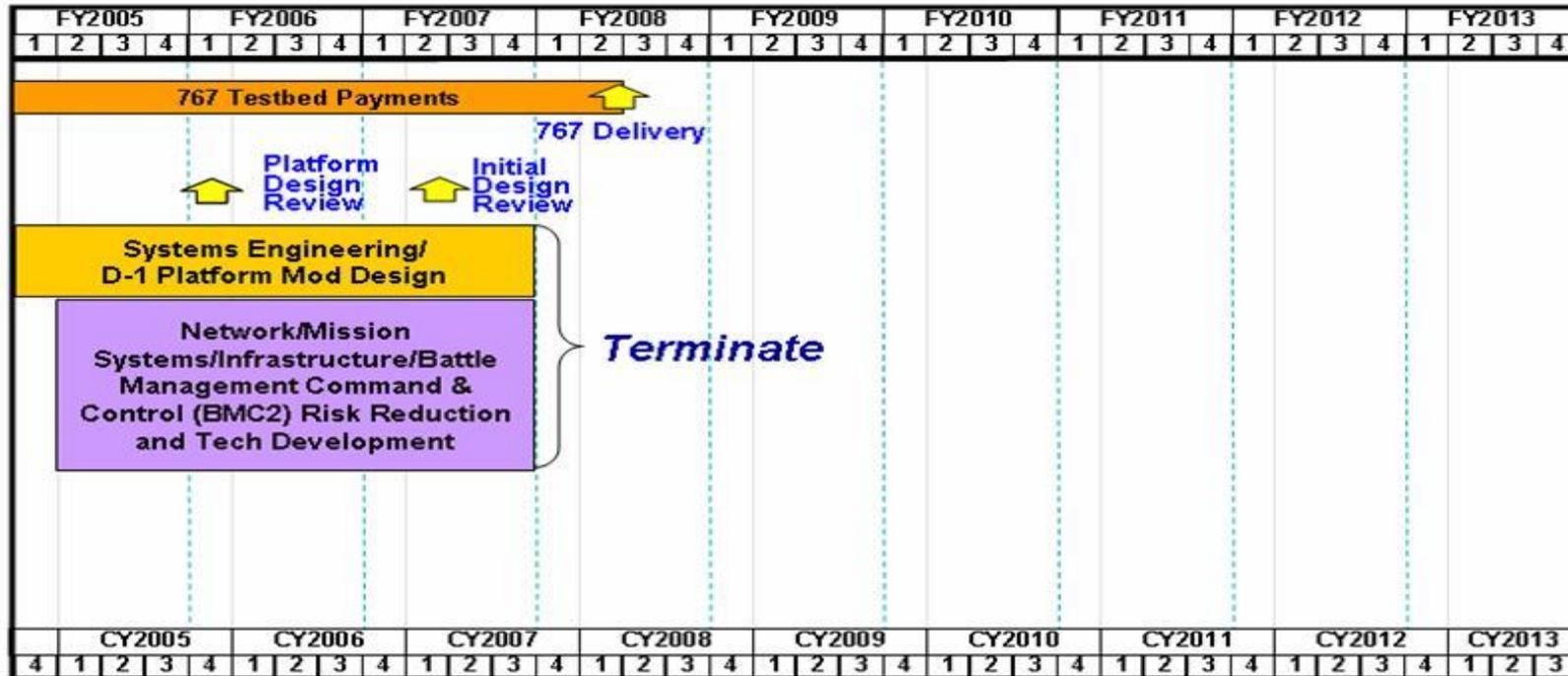
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E-10A Program Pre-SDD – Technology Development



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Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule Profile

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) System Engineering/D-1 Platform Modification Design	1-4Q	1-4Q		
(U) Network/Mission Systems/Infrastructure/BMC2 Risk Reduction and Technology Development	1-4Q	1-4Q		
(U) Platform Design Review	1Q			
(U) Testbed Initial Design Review (IDR)		2Q		
(U) 767-400ER Commercial Aircraft Delivery			2Q	

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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 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
5132 Sensors	131.731	184.583	39.332	42.568	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

- (U) Remarks:
- Direction to terminate the E-10 portion of the MP-RTIP radar development is expected during FY07. FY08 PBR includes funding to complete the Global Hawk MP-RTIP Development Units (DU).
 - 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 2007: 1 GH DU radar emulator to support RQ-4B platform system integration
 FY 2008: 1 GH DU radar for radar lab mode checkout and troubleshooting

(U) **A. Mission Description and Budget Item Justification**

This project was 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) is a family of modular, scalable, two-dimensional active electronically scanned array (2D-AESA) radars. The Wide Area Surveillance (WAS), or larger sensor, 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. The Global Hawk variant is the smaller sensor providing the sensor capability for Global Hawk Block 40. Direction to terminate the E-10 portion of the MP-RTIP radar development is expected during FY07.

Funds in this project will be used for the development, fabrication, and test of MP-RTIP sensor capabilities. 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)**

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continue MP-RTIP design and development of radars for integration on the E-10A and Global Hawk target platforms until termination decision, then terminate the E-10A MP-RTIP radar development. FY08 PB includes funding to complete the Global Hawk MP-RTIP Development Units (DU).	126.491	179.371	37.310	39.615
(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 CONOPS.	0.850	0.416	0.350	1.350

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(U) B. Accomplishments/Planned Program (\$ in Millions)	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continue Test Efforts (examples include Operator-In-The-Loop [OITL]; Joint Test Force Support; AFOTEC Support; and Independent Verification & Validation [IV&V])	3.936	4.289	1.103	1.023
(U) Continue program office operations	0.454	0.507	0.569	0.580
(U) Total Cost	131.731	184.583	39.332	42.568

(U) C. Other Program Funding Summary (\$ in Millions)										
	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) AF RDT&E										
(U) PE 0207450F Project 5131 (E-10 Airframe)	247.140	181.429	0.371	0.000	0.000	0.000	0.000	0.000	0.000	428.940
(U) PE0305220F Project 5144 (Global Hawk MP-RTIP Sensor)	17.613	7.684	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25.297

(U) D. Acquisition Strategy
The existing MP-RTIP program supported the evolutionary acquisition of the E-10A and Global Hawk by providing sensors for Increment 1 of the E-10A and Block 40 of the Global Hawk. Post E-10 termination, the MP-RTIP program plans to provide 3 GH RDT&E sensors. The Global Hawk program will fund MP-RTIP production sensors for the operational Global Hawk Block 40 platforms.

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Exhibit R-3, RDT&E Project Cost Analysis

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(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u> MP-RTIP	SS/CPAF	Northrop-Grumman Corporation; El Segundo, CA	648.535	122.163	Jan-06	175.052	Oct-06	33.398	Oct-07	35.566	Oct-08	0.000	1,014.714	TBD
Future Studies/Spiral Development	Various	Various	8.074	0.850	Jul-06	0.416	May-07	0.350	Nov-07	1.350	Nov-08	0.000	11.040	TBD
Subtotal Product Development			656.609	123.013		175.468		33.748		36.916		0.000	1,025.754	TBD
Remarks:														
(U) <u>Test & Evaluation</u> Test & Evaluation	Various	Various	4.645	3.936	Dec-05	4.289	Dec-06	1.103	Dec-07	1.023	Dec-08	0.000	14.996	TBD
Subtotal Test & Evaluation			4.645	3.936		4.289		1.103		1.023		0.000	14.996	TBD
Remarks:														
(U) <u>Management</u> Program Office Support Systems Engineering/IV&V (FFRDC)	Various SS/CPFF	Various MITRE Corporation; Hanscom AFB, MA	2.307	0.454	Oct-05	0.507	Oct-06	0.569	Oct-07	0.580	Oct-08	0.000	4.417	TBD
			4.847	4.328	Nov-05	4.319	Oct-06	3.912	Oct-07	4.049		0.000	21.455	TBD
Subtotal Management			7.154	4.782		4.826		4.481		4.629		0.000	25.872	TBD
Remarks:														
(U) Total Cost			668.408	131.731		184.583		39.332		42.568		0.000	1,066.622	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

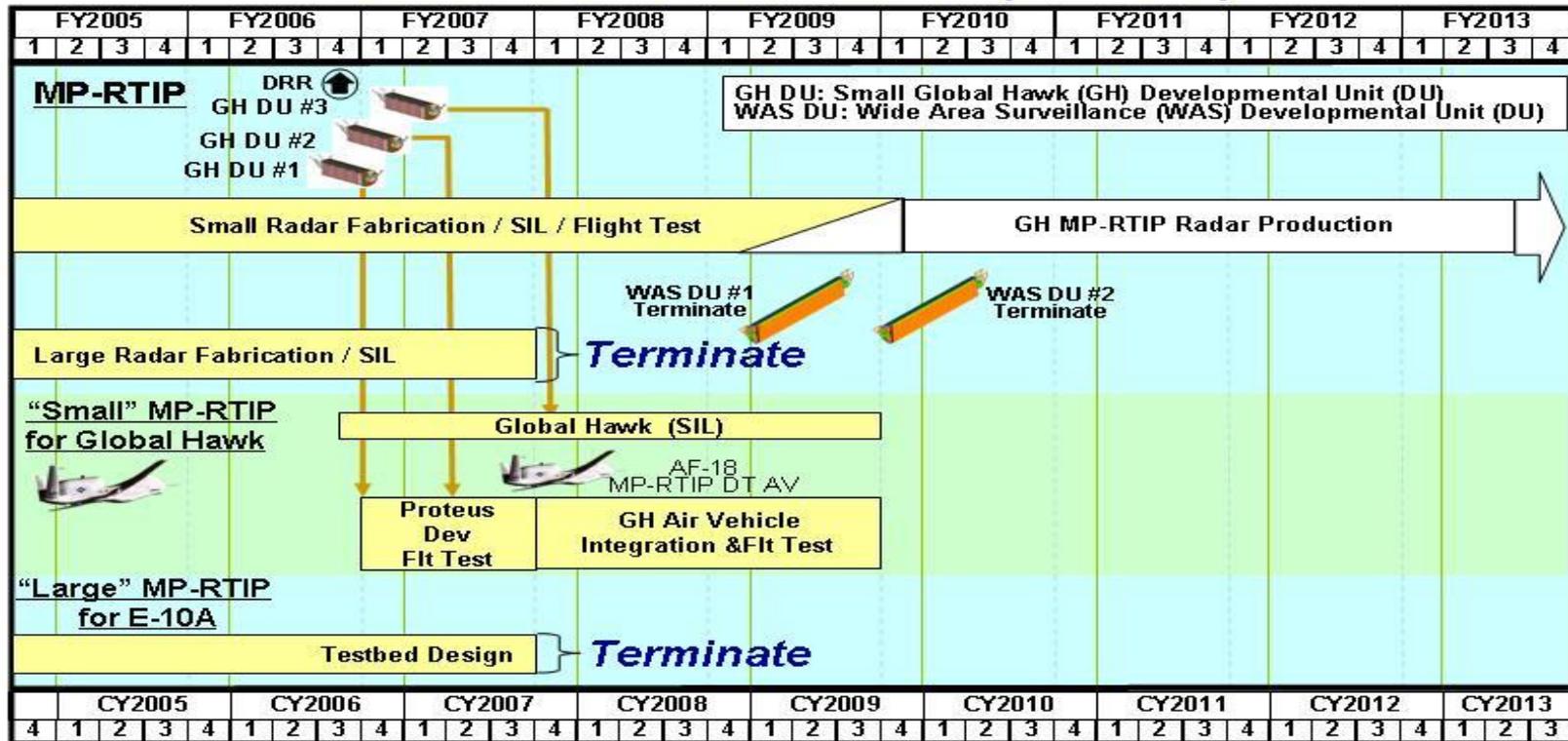
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MP-RTIP System Development and Demonstration (SDD)



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	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Schedule Profile				
(U) SMALL RADAR (GLOBAL HAWK) DEVELOPMENT	1-4Q	1-4Q	1-4Q	1-4Q
(U) GLOBAL HAWK (GH) DEVELOPMENT UNIT (DU) #1 BUILD	1-4Q			
(U) GH DU #2 BUILD	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	1-4Q	1-4Q
(U) GH DU # 2 FLIGHT TEST (ON PROTEUS SURROGATE)		2-4Q		
(U) DESIGN READINESS REVIEW	4Q			
(U) GH DU#3 TO SIL			1-4Q	1-4Q
(U) GH DU#2 INTEGRATION & TEST (ON GH AIR VEHICLE)*			1-4Q	1-4Q
(U) LARGE RADAR (WAS) DEVELOPMENT**	1-4Q	1-4Q		
(U) WAS DU # 1 BUILD**	1-4Q	1-4Q		

* Note: Schedule depends on Global Hawk program restructure.
 **Note: Large radar (WAS) development terminated in FY 2007, no WAS radar deliveries.