

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2004
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207450F MC2A
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Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	0.000	0.000	538.860	530.458	438.500	421.000	232.500	Continuing	TBD
5131 MC2A Airframe	0.000	0.000	333.012	336.338	303.048	312.495	138.480	Continuing	TBD
5132 MC2A Sensors	0.000	0.000	205.848	194.120	135.452	108.505	94.020	Continuing	TBD

1. In FY 2005 this is a new PE. This new Multi-sensor Command and Control Aircraft (MC2A) PE 0207450F and associated Project Numbers 5131-MC2A Airframe and 5132-MC2A Sensors were transferred from PE 0207449F, C2 Constellation, Project Numbers 5064-Airframe and 5065-Sensors, to support hosting the Multi-Platform Radar Technology Insertion Program (MP-RTIP) sensor on a 767-400ER testbed. In February 2003, the MC2A testbed was assigned the Mission Design Series (MDS) designation of E-10A. The E-10A is a key enabler of the joint theater air and cruise missile defense architecture, joint decisive operations and precision engagement and the AEF Task Force concept of operations (CONOPS). Under the current funding profile, delivery of the required cruise missile defense capability is planned for CY 2013.

(U) A. Mission Description and Budget Item Justification

MC2A develops a networked Battle Management, Command and Control (BMC2) capability over the battlefield in evolutionary increments. 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, based on the Multi-Platform Radar Technology Insertion Program (MP-RTIP), will deliver a focused Air Moving Target Indicator (AMTI) capability for Cruise Missile Defense (CMD); an advanced, next-generation Ground Moving Target Indicator (GMTI) wide-area surveillance radar; and the open system architecture to facilitate dynamic Battle Management, Command and Control (BMC2) with growth potential for Unmanned Aerial Vehicle (UAV) control, space-based radar interface and Intelligence, Surveillance and Reconnaissance (ISR) management functions, integrated onto a 767-400ER testbed. A decision on the target wide-body platform for E-10A production will be made at the E-10A Milestone B review. 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-based 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). This BA marks a change from previous

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reporting as BA-7 in the C2 Constellation program (see PE 0207449F).

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

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	0.000	0.000	0.000
(U) Current PBR/President's Budget	0.000	0.000	538.860
(U) Total Adjustments	0.000	0.000	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			

(U) Significant Program Changes:

FY 2005 begins reporting for the MC2A program element 0207450F. This is continuing activity from FY 2003 and 2004 as previously reported in PE 0207449F in Project 5064 (Airframe) and Project 5065 (Sensor).

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BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT NUMBER AND TITLE		
05 System Development and Demonstration (SDD)				0207450F MC2A			5131 MC2A Airframe		
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
5131 MC2A Airframe	0.000	0.000	333.012	336.338	303.048	312.495	138.480	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

1. In FY 2005 this is a new PE. This new Multi-sensor Command and Control Aircraft (MC2A) PE 0207450F and associated Project Numbers 5131-MC2A Airframe and 5132-MC2A Sensors were transferred from PE 0207449F, C2 Constellation, Project Numbers 5064-Airframe and 5065-Sensors, to support hosting the Multi-Platform Radar Technology Insertion Program (MP-RTIP) sensor on a 767-400ER testbed. In February 2003, the MC2A testbed was assigned the Mission Design Series (MDS) designation of E-10A. The E-10A is a key enabler of the joint theater air and cruise missile defense architecture, joint decisive operations and precision engagement and the AEF Task Force concept of operations (CONOPS). Under the current funding profile, delivery of the required cruise missile defense capability is planned for CY 2013.

2. FYDP RDT&E Article Deliveries:

FY 2006: 1 767-400ER/MP-RTIP Testbed for modification

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

This project is established to design, develop, and integrate a wide-body aircraft to host multiple sensor configurations. 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, based on the Multi-Platform Radar Technology Insertion Program (MP-RTIP), will deliver a focused Air Moving Target Indicator (AMTI) capability for Cruise Missile Defense (CMD); an advanced, next-generation Ground Moving Target Indicator (GMTI) wide-area surveillance radar; and the open system architecture to facilitate dynamic Battle Management, Command and Control (BMC2) with growth potential for Unmanned Aerial Vehicle (UAV) control, space-based radar interface and Intelligence, Surveillance and Reconnaissance (ISR) management functions, integrated onto a 767-400ER testbed. A decision on the target wide-body platform for E-10A production will be made at the E-10A Milestone B review. 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-based radar integration and laser communications, while future E-10 increments are envisioned to incorporate advanced sensors for air surveillance operations.

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 execute the transformation of the 'green'/commercial 767-400ER platform into the E-10A testbed for Increment 1 capabilities, (3) develop the E-10A Increment 1 BMC2 architectures to include, communications and computing applications, (4) support Weapon System

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207450F MC2A	PROJECT NUMBER AND TITLE 5131 MC2A Airframe
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Integration activities, and (5) 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 System Development and Demonstration (SDD). This BA marks a change from previous reporting as BA-7 in the C2 Constellation program (see PE 0207449F).

(U) B. Accomplishments/Planned Program (\$ in Millions)	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous activity reported in PE 0207449F, Project 5064	0.000	0.000	
(U) Continue incremental funding of a 767-400ER testbed			30.000
(U) Continue systems engineering and design activities associated with the modification of the commercial testbed			31.354
(U) Continue BMC2 efforts			31.700
(U) Continue Weapon System Integration (WSI) efforts			182.000
(U) Sensor Lab/Test Hardware			55.000
(U) Conduct Future Studies/Spiral Development--includes concept exploration, program definition/risk reduction, and spir 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.			0.500
(U) Continue SPO Ops Effort			1.111
(U) Begin Test & Evaluation Efforts (examples include Joint Test Force (JTF), Air Force Operational Test and Evaluation Center (AFOTEC), Operator-In-The-Loop (OITL))			1.347
(U) Total Cost	0.000	0.000	333.012

(U) C. Other Program Funding Summary (\$ in Millions)	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E									
(U) PE 0207449F Project 5065 (Sensors)	208.369	154.006	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) PE 0207449F Project 5064 (Airframe)	129.395	206.045	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) PE 0207450F Project 5132 (MC2A Sensors)	0.000	0.000	205.848	194.120	135.452	108.505	94.020	Continuing	TBD
(U) APAF									
(U) PE 0207450F (MC2A Production)	0.000	0.000	0.000	0.000	0.000	567.504	706.243	Continuing	TBD

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PROJECT NUMBER AND TITLE

5131 MC2A Airframe

(U) **D. Acquisition Strategy**

The E-10A acquisition strategy approved by USD/AT&L on 22 Apr 03, permitted the program to enter the pre-System Development & Demonstration phase. In FY 2003 the following events occurred: (1) the E-10A Weapon System Integration contract was awarded (14 May 03), (2) the incrementally funded purchase order for the 767-400ER testbed was placed (15 Aug 03), (3) system design engineering was initiated to transform the 'green'/commercial 767-400ER into a testbed for the "large" MP-RTIP radar variant, and (4) a competitive selection for an BMC2 provider began with "down-select" contracts awarded to three industry teams.

The Multi-Platform Radar Technology Insertion Program (MP-RTIP) Acquisition Decision Memorandum (ADM), dated 4 Dec 2003, delayed the E-10A MS B date from July 2004 to July 2005. This allows for the completion of several trade studies regarding GMTI and elevated sensors for the integrated theater air and missile defense architecture to support cruise missile defense.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY		PE NUMBER AND TITLE						PROJECT NUMBER AND TITLE				
05 System Development and Demonstration (SDD)		0207450F MC2A						5131 MC2A Airframe				
(U) <u>Cost Categories</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>Cost to</u>	<u>Total</u>	<u>Target</u>
(Tailor to WBS, or System/Item Requirements) (\$ in Millions)			<u>Prior to FY</u>	<u>2003</u>	<u>2003</u>	<u>2004</u>	<u>2004</u>	<u>2005</u>	<u>2005</u>	<u>Complete</u>	<u>Cost</u>	<u>Value of</u>
			<u>2003</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>			<u>Contract</u>
			<u>Cost</u>		<u>Date</u>		<u>Date</u>		<u>Date</u>			
(U) <u>Product Development</u>												
Weapon System Integration (WSI)	SS/CPAF	Northrop Grumman Systems Corporation; Melbourne, FL						182.000	May-03	Continuing	TBD	
767-400ER Testbed	SS/FFP	The Boeing Company; Seattle, WA						30.000	Oct-04	Continuing	TBD	
BMC2 --TBD	C/TBD	TBD						31.700	Oct-04	Continuing	TBD	
Sensor Lab/Test Hardware	SS/CPAF	Northrop Grumman Systems Corporation (MP-RTIP); El Segundo, CA						55.000	Mar-05	Continuing	TBD	
Systems Engineering	Various	Various						21.883	Oct-04	Continuing	TBD	
Future Studies/Spiral Development	Various	Various						0.500	Mar-05	Continuing	TBD	
Subtotal Product Development			0.000	0.000		0.000		321.083		Continuing	TBD	0.000
Remarks: Where Various Contract Method & Types take place, earliest date funds will obligated is noted.												
(U) <u>Test & Evaluation</u>												
AFOTEC	MIPR	Various						0.159	Jan-05	Continuing	TBD	
Joint Test Force (JTF)	SS/T&M	Titan Systems Corporation; Melbourne, FL						0.724	Jan-05	Continuing	TBD	
Operator-In-The-Loop (OITL)	SS/T&M	Hanscom AFB, MA						0.464	Feb-05	Continuing	TBD	
Subtotal Test & Evaluation			0.000	0.000		0.000		1.347		Continuing	TBD	0.000
Remarks:												
(U) <u>Management</u>												
Program Office Support	Various	Various						1.111	Oct-04	Continuing	TBD	
FFRDC	SS/CPFF	MITRE Corporation; Hanscom AFB, MA						9.471	Oct-04	Continuing	TBD	
Subtotal Management			0.000	0.000		0.000		10.582		Continuing	TBD	0.000
Remarks: Where Various Contract Method & Types take place, earliest date funds will obligated is noted.												
(U) Total Cost			0.000	0.000		0.000		333.012		Continuing	TBD	0.000

Project 5131

R-1 Shopping List - Item No. 97-6 of 97-14

Exhibit R-3 (PE 0207450F)

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PROJECT NUMBER AND TITLE

5131 MC2A Airframe

Remark: FY2003 and FY2004 reflected in Program Element 0207449F C2 Constellation, Project 5064 (Airframe)

Exhibit R-4, RDT&E Schedule Profile

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05 System Development and Demonstration (SDD)

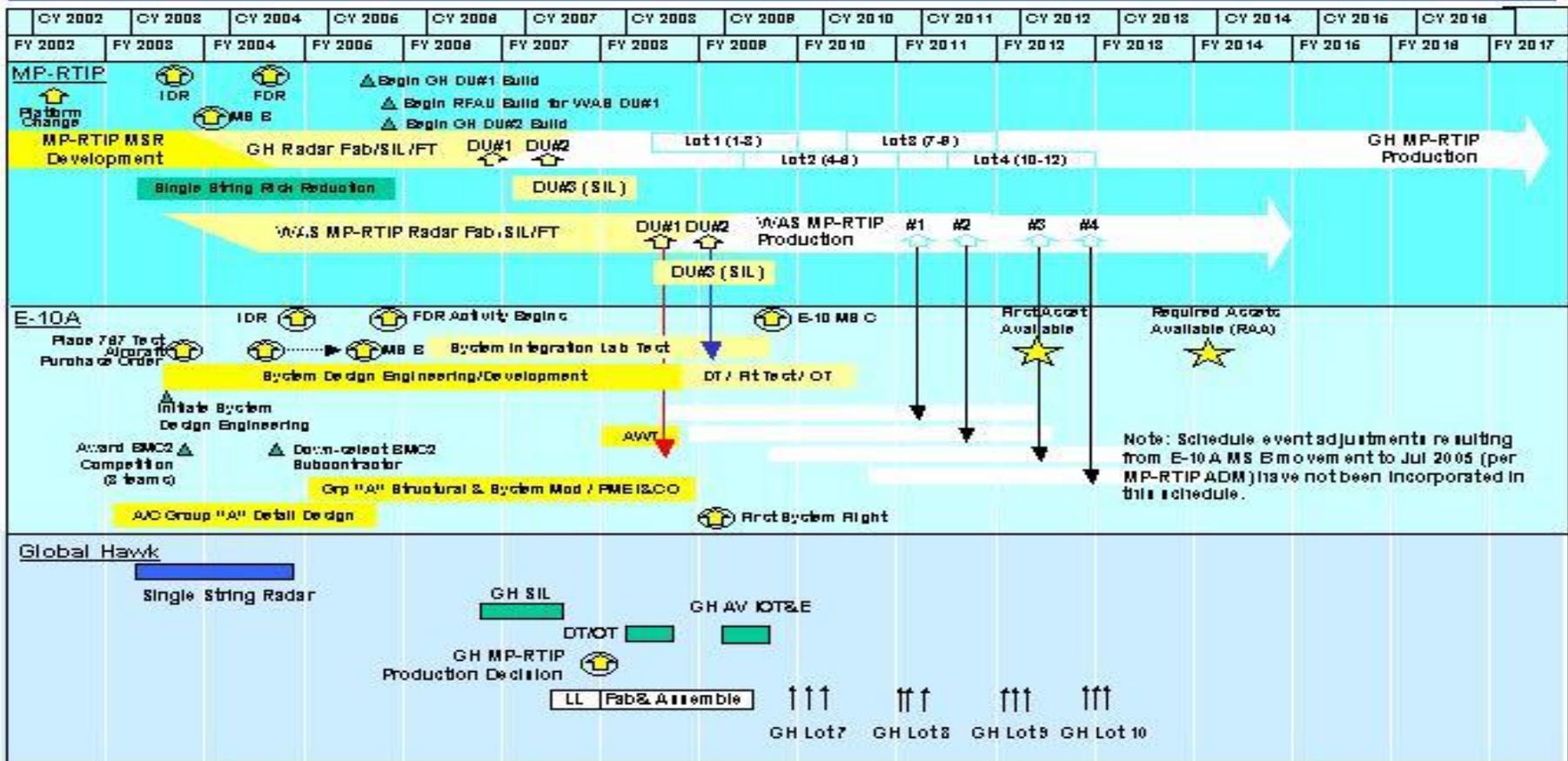
PE NUMBER AND TITLE
0207450F MC2A

PROJECT NUMBER AND TITLE
5131 MC2A Airframe



E-10A/MP-RTIP Summary Program Schedule

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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2004
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	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) <u>Schedule Profile</u>			
(U) ** Initiated System Design Engineering	3Q		
(U) ** Placed incrementally funded purchase order for a 767-400ER	4Q		
(U) ** Awarded BMC2 Competition (3 Teams)	4Q		
(U) ** System Requirements Review		2Q	
(U) ** Downselect BMC2 Subcontractor		3Q	
(U) ** Initial Design Review (IDR)		4Q	
(U) Begin System Final Design Review (FDR) Activity			4Q
** FY2003 and FY2004 events reflected in Program Element 0207449F C2 Constellation, Project 5064 (Airframe)			

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BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT NUMBER AND TITLE		
05 System Development and Demonstration (SDD)				0207450F MC2A			5132 MC2A Sensors		
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
5132 MC2A Sensors	0.000	0.000	205.848	194.120	135.452	108.505	94.020	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

1. In FY 2005 this is a new PE. This new Multi-sensor Command and Control Aircraft (MC2A) PE 0207450F and associated Project Numbers 5131-MC2A Airframe and 5132-MC2A Sensors were transferred from PE 0207449F, C2 Constellation, Project Numbers 5064-Airframe and 5065-Sensors, to support hosting the Multi-Platform Radar Technology Insertion Program (MP-RTIP) sensor on a 767-400ER testbed. In February 2003, the MC2A testbed was assigned the Mission Design Series (MDS) designation of E-10A. The E-10A is a key enabler of the joint theater air and cruise missile defense architecture, joint decisive operations and precision engagement and the AEF Task Force concept of operations (CONOPS). Under the current funding profile, delivery of the required cruise missile defense capability is planned for CY 2013.

2. FYDP RDT&E Article Deliveries:

FY 2007: 1 Global Hawk MP-RTIP radar for integration

FY 2008: 1 Wide Area Surveillance (WAS) Development Unit radar for System Integration Lab (SIL), concurrent mode development, testbed/flight test

FY 2009: 2 WAS Development Unit radars for System Integration Lab (SIL), concurrent mode development, testbed/flight test

(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), a modular, scalable, two-dimensional active electronically scanned array (2D-AESA) radar, is the sensor capability of the E-10A Increment 1 weapons 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 MP-RTIP program continues to support NATO Alliance Ground Surveillance (AGS) conceptual design and early design development activities.

This program is categorized as Budget Activity (BA) 5 to reflect a program in System Development and Demonstration (SDD). This BA marks a change from previous reporting as BA-7 in the FY 2001 and FY 2002 R-2 Exhibits for Joint STARS (PE 0207581F), and in the FY 2003 and FY 2004 R-2 Exhibits for C2 Constellation (PE 0207449F) which reflected a sensor technology insertion program.

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

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous activity reported in PE 0207449F, Project 5065	0.000	0.000	
(U) Continue MP-RTIP radar design and development for integration on the E-10A and Global Hawk target platforms			203.463
(U) Continue Test Efforts (examples include Operator-In-The-Loop [OITL]; Joint Test Force Support; AFOTEC Support; and Independent Verification & Validation [IV&V])			1.062

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(U) Continue Future Studies/Spiral Development--includes concept exploration, program definition/risk reduction, sensor technology 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.			0.500
(U) Continue SPO Operations			0.823
(U) Total Cost	0.000	0.000	205.848

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

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E									
(U) PE 0207449F Project 5065 (Sensors)	208.369	154.006	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) PE 0207449F Project 5064 (Airframe)	129.395	206.045	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) PE 0207450F Project 5131 (MC2A Airframe)	0.000	0.000	333.012	336.338	303.048	312.495	138.480	Continuing	TBD
(U) PE 0305205F Project 4799 (Global Hawk MP-RTIP Sensor)	11.000	32.000	34.000	18.000	8.000	0.000	0.000	Continuing	TBD
(U) APAF									
(U) PE 0207450F (MC2A Production)	0.000	0.000	0.000	0.000	0.000	567.504	706.243	Continuing	TBD

(U) D. Acquisition Strategy

The MP-RTIP Acquisition Decision Memorandum (ADM), dated 4 Dec 2003, approved Global Hawk MP-RTIP entry into SDD and continued platform integration efforts for other platforms. MP-RTIP SDD activities will begin in FY 2004.

The MP-RTIP program currently plans to provide sensors for five aircraft (1 test bed and 4 production aircraft) and 12 Global Hawk air vehicles. LRIP quantities for Global Hawk (6 radars) were established at the MP-RTIP Milestone B in FY 2003. LRIP quantities for a widebody aircraft will be addressed at the E-10A MS B in FY 2005.

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0207450F MC2A				PROJECT NUMBER AND TITLE 5132 MC2A Sensors			
<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</u> <u>Prior to FY</u> <u>2003</u> <u>Cost</u>	<u>FY</u> <u>2003</u> <u>Cost</u>	<u>FY</u> <u>2003</u> <u>Award</u> <u>Date</u>	<u>FY</u> <u>2004</u> <u>Cost</u>	<u>FY</u> <u>2004</u> <u>Award</u> <u>Date</u>	<u>FY</u> <u>2005</u> <u>Cost</u>	<u>FY</u> <u>2005</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total</u> <u>Cost</u>	<u>Target</u> <u>Value of</u> <u>Contract</u>
<u>(U) Product Development</u>												
MP-RTIP	SS/CPAF	Northrop-Grumman; El Segundo, CA						200.478	Oct-04	Continuing	TBD	
Future Studies/Spiral Development	Various	TBD						0.500	Nov-04		0.500	
Subtotal Product Development			0.000	0.000		0.000		200.978		Continuing	TBD	0.000
Remarks: Where Various Contract Method & Types take place, earliest date funds will obligated is noted.												
<u>(U) Test & Evaluation</u>												
JTF Support	SS/T&M	Titan Systems Corporation; Melbourne, FL						0.573	Dec-04	Continuing	TBD	
AFOTEC Support	MIPR	Various						0.489	Oct-04	Continuing	TBD	
Subtotal Test & Evaluation			0.000	0.000		0.000		1.062		Continuing	TBD	0.000
Remarks:												
<u>(U) Management</u>												
Program Office Support	Various	Various						0.823	Oct-04	Continuing	TBD	
FFDRC	SS/CPFF	MITRE Corporation; Hanscom AFB, MA						2.985	Oct-04		2.985	
Subtotal Management			0.000	0.000		0.000		3.808		Continuing	TBD	0.000
Remarks: Where Various Contract Method & Types take place, earliest date funds will obligated is noted.												
<u>(U) Total Cost</u>			0.000	0.000		0.000		205.848		Continuing	TBD	0.000
Remark: FY 2002 and prior reflected in Program Element 0207581F, Joint STARS FY 2003 and FY 2004 reflected in Program Element 0207449F C2C, Project 5065 (Sensors)												

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

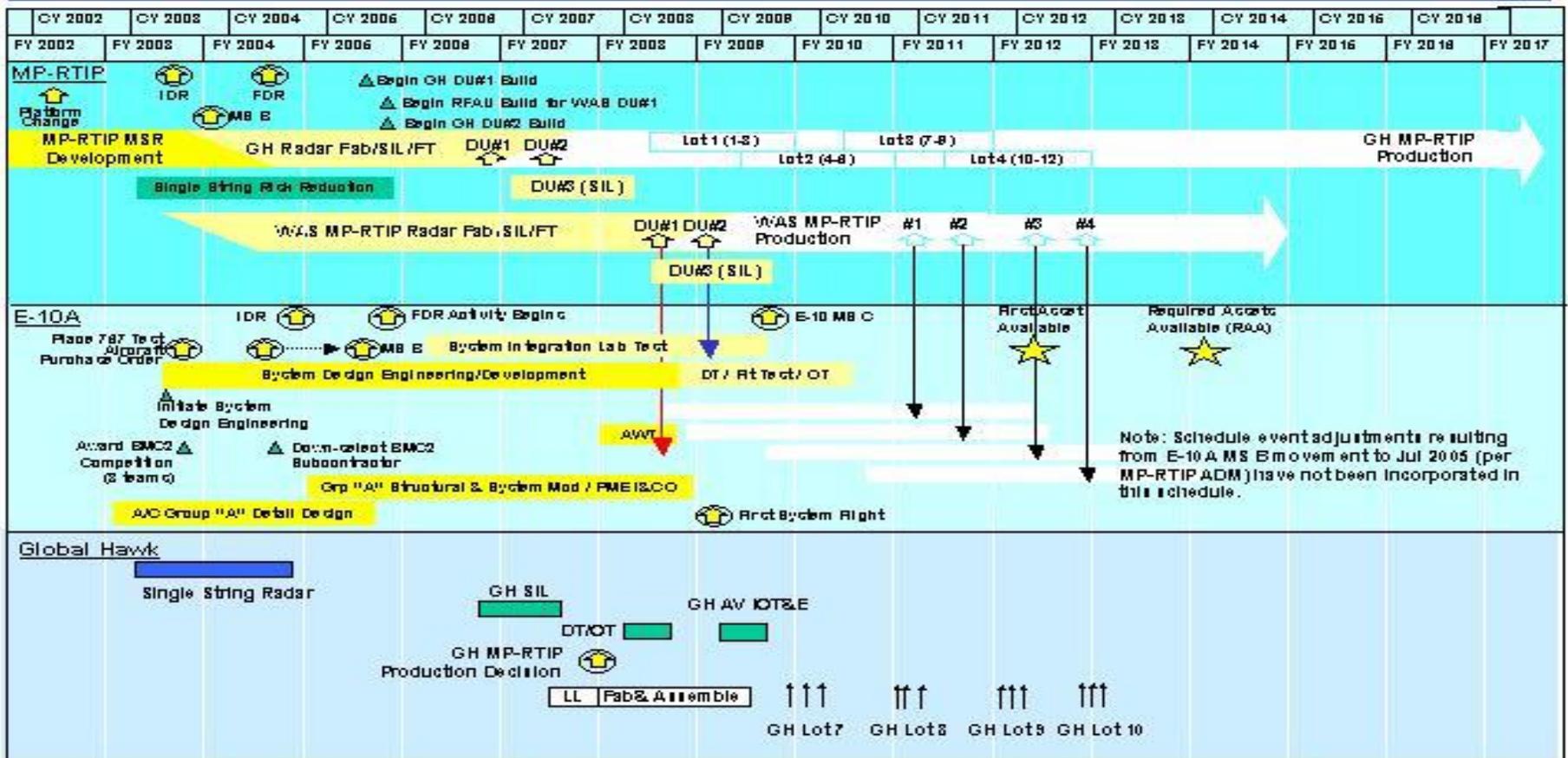
PE NUMBER AND TITLE
0207450F MC2A

PROJECT NUMBER AND TITLE
5132 MC2A Sensors



E-10A/MP-RTIP Summary Program Schedule

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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2004
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207450F MC2A	PROJECT NUMBER AND TITLE 5132 MC2A Sensors
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	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) <u>Schedule Profile</u>			
(U) ** INITIAL DESIGN REVIEW (IDR)	3Q		
(U) ** MILESTONE B		1Q	
(U) ** FINAL DESIGN REVIEW		3Q	
(U) BEGIN GLOBAL HAWK DEVELOPMENT UNIT #1 BUILD			3Q
(U) BEGIN RF APERTURE UNIT (RFAU) BUILD FOR WIDE AREA SURVEILLANCE (WAS) DEVELOPMENT UNIT #1			4Q
(U) BEGIN GLOBAL HAWK DEVELOPMENT UNIT #2 BUILD			4Q
** FY2003 and FY2004 reflected in Program Element 0207449F C2 Constellation, Project 5065 (Sensor)			