

UNCLASSIFIED

PE NUMBER: 0207449F
PE TITLE: C2 Constellation

Exhibit R-2, RDT&E Budget Item Justification								DATE February 2006	
BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0207449F C2 Constellation					
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	38.288	40.334	44.027	56.663	56.317	56.976	57.313	Continuing	TBD
5078 Horizontal Integration	10.802	10.362	11.614	23.633	22.516	22.589	22.526	Continuing	TBD
5140 Joint Expeditionary Force Experiments	27.486	29.972	32.413	33.030	33.801	34.387	34.787	Continuing	TBD
<p>(U) <u>A. Mission Description and Budget Item Justification</u></p> <p>Project 5078, Horizontal Integration (HI), is responsible for delivering integrated capabilities within the Command and Control, Information, Surveillance and Reconnaissance (C2ISR) warfighting domain of the Air Force enterprise. The Command and Control Constellation (C2C) identifies, prioritizes, develops and delivers Horizontal Integration Solutions (HISs) that support joint operations to the Warfighter. The C2C vision statement provides doctrine, organization, training, materiel, leadership/education, personnel and facilities (DOTMLPF) solutions to facilitate the horizontal flow of Warfighter Domain C2ISR information. Enterprise integration activities are performed through an annual capability-based requirements review process to surface and prioritize by criticality C2C shortfalls. Engineering analyses of the C2C operational/systems/technical architecture identify specifications, standards and solutions for each operational need becoming the foundation for data calls to solicit both material and non-material solutions. The C2C applies rapidly developing technologies to promote common standards, data sharing and information services across Air Force and Joint warfighter applications. C2C Program funds are then applied where appropriate to develop and deliver horizontal integration capabilities to the Warfighter.</p> <p>Project 5140, Joint Expeditionary Force Experiments (JEFX), are large-scale warfighter experiments that address emerging operational challenges and are part of the total Air Force (AF) experimentation effort. They combine live-fly forces and simulations into an operationally representative warfighter environment. These experiments provide a vehicle for experimentation with operational concepts and attendant new technologies to evolve and transform our aerospace forces and capabilities for the 21st century. They are part of a broader effort to implement the Joint Vision 2020, exploit the Revolution in Military Affairs, demonstrate emerging Air Force capabilities to deploy and employ decisive aerospace power for the Joint Force Commander, and are important enablers of innovation and transformation.</p> <p>This program is in Budget Activity 7- Operational System Development because it provides a vehicle for developers, testers and warfighters to experiment, analyze, and explore operational concepts and new technologies to enhance operational system developments and improve capabilities of the 21st century aerospace force.</p>									

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0207449F C2 Constellation(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	44.035	41.071	45.409
(U) Current PBR/President's Budget	38.288	40.334	44.027
(U) Total Adjustments	-5.747	-0.737	
(U) Congressional Program Reductions		-0.151	
Congressional Rescissions	-0.561	-0.586	
Congressional Increases			
Reprogrammings	-4.086		
SBIR/STTR Transfer	-1.100		

(U) **Significant Program Changes:**

The changes between the previous and current FY06 and FY07 President Budget are due to Congressional Reductions/Rescissions.

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5078 Horizontal Integration

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
5078 Horizontal Integration	10.802	10.362	11.614	23.633	22.516	22.589	22.526	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

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

Project 5078, Horizontal Integration, is established to develop an integrated capability to support network centric operations. Project 5078 defines the Command and Control Constellation (C2C) through six thrust areas: first, Operational Requirements and Planning documentation will be created/updated; second, Systems Engineering Policy & Guidance, Education and Architecture will be developed to further refine the C2C and provide baseline data for more detailed analysis; third, operators and systems engineers will perform analyses to validate and prioritize the major issues facing the C2C and develop net-centric roadmaps; fourth, various Modeling & Simulation and experimentation methods will be used to test both non-materiel and materiel solutions; fifth, Joint Integration/applicability will be researched and applied; and sixth, Horizontal Integration Initiatives will be built and transitioned to the warfighter as the final step in the C2C systems engineering process. Program specifics are:

- (1) Operational Requirements documents (e.g., Program Management Directive, Concept of Employment, Initial Capability Document and C2C Architecture) will be published/revised. A FYDP Implementation plan identifying the most significant C2C net-centric integration issues will continue to be developed.
- (2) Systems Engineering and Architecture Development is the 'glue' which will hold C2C elements together, and close the seams in the Command, Control Communications Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) architecture. C2C system and technical architectures, cross program requirements allocation, key cost drivers, risk assessments and corresponding risk mitigation strategies will be examined.
- (3) Operators and System Engineers Analysis for Net-centric capability across C4ISR programs will continue. The resulting Net-centric Strategic Plan will impact C4ISR program roadmaps and feed directly into the Command and Control, Intelligence, Surveillance, and Reconnaissance (C2ISR) and C4ISR Net-centric Flight Plans. Provides Air Staff with issue development, data collection, data analysis, mapping of capabilities to system functions, and supports the ability to develop trade space recommendations through use of a Capability Evolution Methodology assessment tool.
- (4) Modelling and Simulation (M&S) and Experimentation will leverage existing government/industry development and simulation sites to allow 'virtual' assessments of the C2 Constellation. Facility network architecture management, new or improved communications linkages between the various government and industry simulation sites, with the required accreditation and encryption systems will be developed. A series of experiments, exercises and simulations will provide alternatives and targets of opportunity for further engineering improvements and integration.
- (5) Numerous C4ISR Joint Interoperability/Integration issues exist due to the dozens of non-Air Force programs/nodes contained within the C2 Constellation enterprise. Focuses on supporting several major venues including: Joint Battle Management Command and Control (JBMC2) Roadmap, Joint Forces Command (JFCOM) Board of Directors and the Multi - Service Working Group.
- (6) Horizontal Integration Initiatives will capitalize on near-term opportunities to eliminate known horizontal integration deficiencies in the seamless C4ISR network vision. These initiatives will become integral to weapon systems' configuration controlled baselines.

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5078 Horizontal Integration

This program is in Budget Activity 7 - Operational System Development because it provides horizontal integration and provides developers, testers and warfighters a way to experiment, analyze, and explore operational concepts and new technologies to enhance operational system developments and improve capabilities of the 21st century aerospace force.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Operational Requirements/Planning documents creation/update	0.193	0.920	0.990
(U) Systems Engineering Policy/Guidance and Architecture & Architecture Education Development	5.827	3.800	4.153
(U) Operational Analysis supporting Net-Centric Integration;	2.071	1.906	2.671
(U) M&S Infrastructure and Operational Experimentation	1.850	2.000	2.000
(U) Joint Interoperability/Integration Efforts	0.086	0.764	0.800
(U) Horizontal Integration Initiative focused on warfighting capability development	0.775	0.972	1.000
(U) Total Cost	10.802	10.362	11.614

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

	<u>FY 2005</u>	<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>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) Not applicable									

(U) D. Acquisition Strategy

This project uses full and open competition for one or more operational requirements document creation, systems engineering & architecture development, modeling & simulation and experimentation, joint interoperability/integration, and horizontal integration approaches.

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Exhibit R-3, RDT&E Project Cost Analysis

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5078 Horizontal Integration

(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Award</u> <u>Date</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u>												
Systems Engineer, Operation Integration Analysis, M&S, and Experimentation	C/CPAF	Lockheed Martin, ESC Hanscom AFB, MA		2.666	Nov-04	0.823	Nov-05	3.020	Nov-06	Continuing	TBD	TBD
Horizontal Integration	C/CPAF	ACS Defense, ESC Hanscom AFB, MA		0.375	Apr-05	0.600	Apr-06	0.650	Apr-07	Continuing	TBD	TBD
Experimentation	SPO Managed	ESC/SR, ESC Hanscom AFB, MA		0.250	Dec-04	0.250	Dec-05	0.250	Dec-06	Continuing	TBD	TBD
System Engineering and Experimentation	C/T&M	MIT/LL, ESC Hanscom AFB, MA		1.200	Dec-04	1.200	Dec-05	1.100	Dec-06	Continuing	TBD	TBD
System Engineering	FFRDC	MITRE, ESC Hanscom AFB, MA		2.346	Dec-04	2.676	Dec-05	2.554	Dec-06	Continuing	TBD	TBD
Operational Integration Analysis	MIPR	AF/XI		1.000	Dec-04	1.000	Oct-05	1.000	Oct-06	Continuing	TBD	TBD
Operational Requirements Planning Documents, System Engineering, Operation Integration Analysis, and Joint Interoperability Integration efforts	MIPR	AFC2ISRC/C X		1.425	Oct-04	2.261	Oct-05	1.700	Oct-06	Continuing	TBD	TBD
Various	Various	ESC Hanscom AFB, MA		0.912	Dec-04	0.912	Dec-05	0.700	Dec-06	Continuing	TBD	TBD
Subtotal Product Development			0.000	10.174		9.722		10.974		Continuing	TBD	TBD
Remarks:												
(U) <u>Support</u>												
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
T&E	PO	605th Test Squadron		0.300	Nov-04	0.300	Nov-05	0.300	Nov-06	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	0.300		0.300		0.300		Continuing	TBD	TBD
Remarks:												
(U) <u>Management</u>												
Program Management Support	FFRDC	MITRE, ESC Hanscom AFB, MA		0.328	Dec-04	0.340	Dec-05	0.340	Dec-05	Continuing	TBD	TBD
Subtotal Management			0.000	0.328		0.340		0.340		Continuing	TBD	TBD

Project 5078

R-1 Shopping List - Item No. 155-6 of 155-15

Exhibit R-3 (PE 0207449F)

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Remarks:								
(U)	Total Cost	0.000	10.802	10.362	11.614	Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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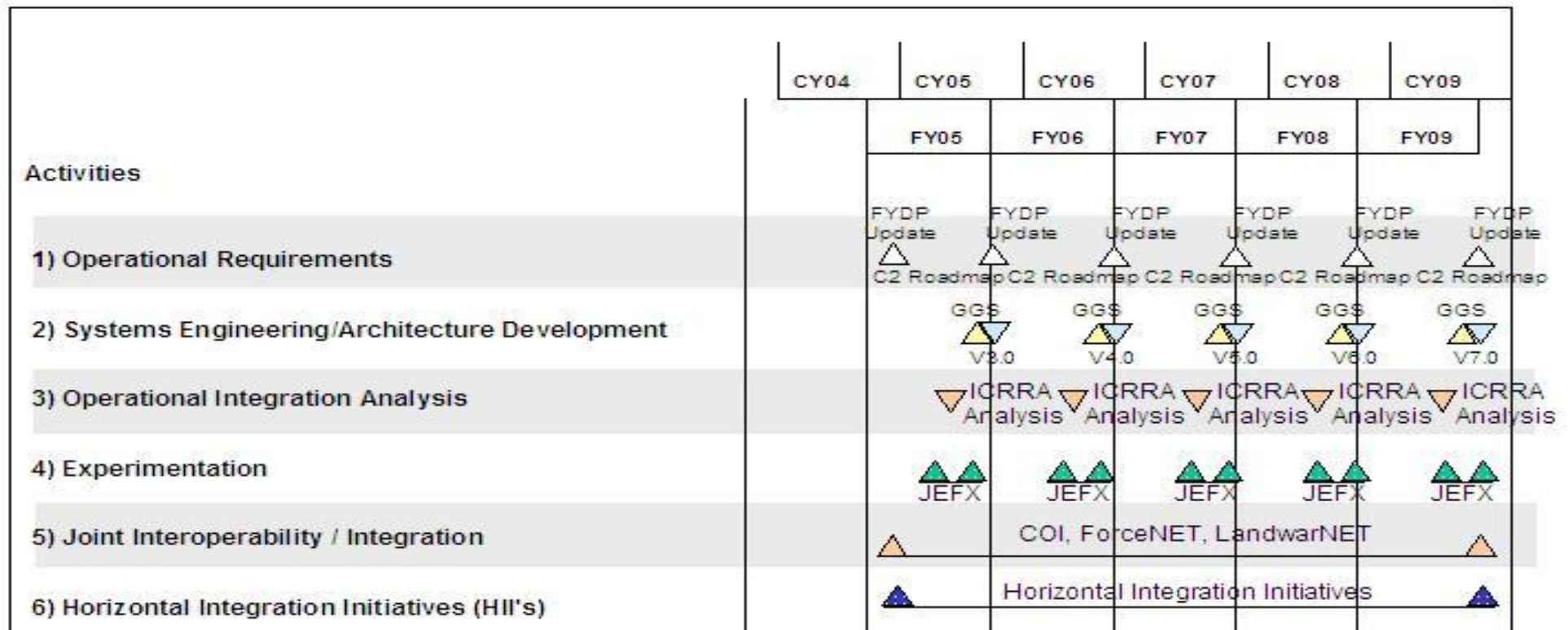
5078 Horizontal Integration



U.S. AIR FORCE



C2C Schedule



Integrity - Service - Excellence

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Exhibit R-4a, RDT&E Schedule Detail

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5078 Horizontal Integration(U) **Schedule Profile**FY 2005FY 2006FY 2007

(U) Operational Requirements Documents

3-4Q

3-4Q

3-4Q

(U) Systems Engineering & Architecture

4Q

4Q

4Q

(U) Operational Integration Analysis

2-3Q

2-3Q

2-3Q

(U) M&S Infrastructure and Experimentation

2-3Q

2-3Q

2-3Q

(U) Joint Interoperability/Integration

1-4Q

1-4Q

1-4Q

(U) Horizontal Integration Initiatives

1-4Q

1-4Q

1-4Q

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5140 Joint Expeditionary Force Experiments

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
5140 Joint Expeditionary Force Experiments	27.486	29.972	32.413	33.030	33.801	34.387	34.787	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

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

The Joint Expeditionary Force Experiments (JEFX) and Advanced Process Technology Experiments (APTIX) are large-scale warfighter experiments that address emerging operational challenges and are part of the total Air Force (AF) experimentation effort. JEFX and APTIX explore significant capability gaps across the range of AF Concept of Operations (CONOPS) and address critical lessons learned from recent operations. They combine live-fly forces and simulations into an operationally representative warfighter environment. JEFX, spirally conducted, and APTIX provide a multi-dimensional, multi-national, multi-service environment for an end-to-end process of exploration, assessment, and transition of capabilities that will provide joint and coalition warfighters with solutions to gaps identified in the Integrated Capability Review and Risk Assessment (I-CRRA) process and through lessons learned in recent and current operations. They are part of a broader effort to implement the Joint Vision 2020, demonstrate emerging Air Force capabilities to deploy and employ decisive aerospace power for the Joint Force Commander, and are important enablers of innovation and transformation. JEFX occurs on even years and APTIX on odd years.

This program is in Budget Activity 7 - Operational System Development because it provides horizontal integration, developers, testers, and warfighters to experiment, analyze, and explore operational concepts and new technologies to enhance operational system developments and improve capabilities of the 21st century aerospace force.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Spiral develop systems architecture, systems engineering, and integration of initiatives into a cohesive system of systems, the integration of systems and process is the major reason JEFX is an experiment and not simply a demonstration or exercise	4.236	3.583	6.098
(U) Plan, design, coordinate, assess and report the APTIX and JEFX experiments, provide expertise to support SPO functions of initiative selection, acquisition, program management, communications and systems planning	7.315	4.480	7.000
(U) Develop initiatives to introduce new technologies and operational capabilities into the Aerospace Expeditionary Force (AEF) Concept of Operations (CONOPS).	6.861	5.731	6.935
(U) Implement architectural configuration, conduct M&S, install and the test the communications infrastructure and execute the experiment	2.174	16.178	2.380
(U) Transition successful JEFX assessed and CSAF approved warfighting capabilities for fielding into an integrated C2ISR baseline.	6.900	0.000	10.000
(U) Total Cost	27.486	29.972	32.413

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5140 Joint Expeditionary Force
Experiments(U) **C. Other Program Funding Summary (\$ in Millions)**FY 2005FY 2006FY 2007FY 2008FY 2009FY 2010FY 2011Cost toTotal CostActualEstimateEstimateEstimateEstimateEstimateEstimateComplete

(U) Not applicable

(U) **D. Acquisition Strategy**

JEFX supports evolutionary acquisition of multiple programs by providing a venue to experiment new and emerging technologies to be integrated into other systems-of-record.

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Exhibit R-3, RDT&E Project Cost Analysis										DATE February 2006		
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0207449F C2 Constellation					PROJECT NUMBER AND TITLE 5140 Joint Expeditionary Force Experiments		
(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												
Experimentation	FFRDC	MITRE, ESC Hanscom AFB, MA		2.324	Dec-04	1.882	Dec-05	2.360	Dec-06	Continuing	TBD	TBD
Experimentation	C/CPAF	Lockheed Martin, ESC Hanscom AFB, MA		1.800	Dec-04	3.000	Dec-05	1.800	Dec-06	Continuing	TBD	TBD
Experimentation	C/IDIQ	ACS Defense, ESC Hanscom AFB, MA		1.575	Apr-05	0.951	Apr-06	1.575	Apr-07	Continuing	TBD	TBD
Experimentation	C/T&M	Northrop Grumman, ESC Hanscom AFB, MA		0.200	Dec-04	0.275	Dec-05	0.200	Dec-06	Continuing	TBD	TBD
Experimentation	C/T&M	Logicon, ESC Hanscom AFB, MA		0.500	Dec-04	0.290	Dec-05	0.500	Dec-06	Continuing	TBD	TBD
Experimentation	MIPR	GSA		1.706	Dec-04	0.806	Dec-05	1.706	Dec-06	Continuing	TBD	TBD
Experimentation	MIPR	ASC/RAB								Continuing	TBD	TBD
Experimentation	MIPR	AFRL		0.500	Dec-04			0.500	Dec-06	Continuing	TBD	TBD
Experimentation	C/T&M	General Dynamics, ESC Hanscom AFB, MA		0.450	Dec-04	0.290	Oct-05	0.450	Oct-06	Continuing	TBD	TBD
Various	Various	ESC		0.180	Dec-04			0.180	Dec-06	Continuing	TBD	TBD
Various	MIPR	Various		4.589	Dec-04	1.513	Dec-05	5.043	Dec-06	Continuing	TBD	TBD
Various	C/T&M	CITPAD, ESC Hanscom AFB, MA								Continuing	TBD	TBD
Experimentation	MIPR	L3 Comm		1.000	Dec-04	1.050	Dec-05	1.050	Dec-06	Continuing	TBD	TBD
Experimentation	C/GSA	Sverdrup		0.175	Oct-04	0.175	Oct-05	0.175	Oct-06	Continuing	TBD	TBD
Experimentation	C/GSA	Northrop Grumman		0.250	Oct-04	0.250	Oct-05	0.250	Oct-06	Continuing	TBD	TBD
Experimentation	MIPR	505CCW Hurlburt Field, FL		0.000	Feb-05	8.025	Feb-06	0.000	Feb-07	Continuing	TBD	TBD
Experimentation	C/GSA	Alion, AFC2ISRC		1.675	Dec-04	1.850	Nov-05	1.850	Nov-06	Continuing	TBD	TBD

Project 5140

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BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0207449F C2 Constellation				PROJECT NUMBER AND TITLE 5140 Joint Expeditionary Force Experiments			
Experimentation	C/GSA	Langley AFB, VA Lockheed Martin, AFC2ISRC	0.500	Dec-04	0.500	Nov-05	0.500	Nov-05	Continuing	TBD	TBD
Experimentation	C/GSA	Langley AFB, VA SAIC, AFC2ISRC	1.058	Dec-04	1.058	Nov-05	1.058	Nov-05	Continuing	TBD	TBD
Experimentation	C/GSA	Langley AFB, VA L3 Comm, AFC2ISRC	1.207	Dec-04	1.207	Nov-05	1.207	Nov-06	Continuing	TBD	TBD
Experimentation	C/GSA	Langley AFB, VA Northrop Grumman, AFC2ISRC	0.300	Dec-04	0.300	Nov-05	0.300	Nov-05	Continuing	TBD	TBD
Experimentation	C/GSA	Langley AFB, VA Zel Tech, AFC2ISRC							Continuing	TBD	TBD
Various	MIPR	Various	7.397	Feb-05	6.150	Jan-06	11.509	Oct-06	Continuing	TBD	TBD
Subtotal Product Development			0.000	27.386	29.572		32.213		Continuing	TBD	TBD
Remarks:											
(U) Support											
Subtotal Support			0.000	0.000	0.000		0.000		0.000	0.000	0.000
Remarks:											
(U) Test & Evaluation											
T&E	PO	46th Test Squadron	0.100	Dec-04	0.400	Dec-05	0.200	Dec-06	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	0.100	0.400		0.200		Continuing	TBD	TBD
Remarks:											
(U) Management											
Subtotal Management			0.000	0.000	0.000		0.000		0.000	0.000	0.000
Remarks:											
(U) Total Cost			0.000	27.486	29.972		32.413		Continuing	TBD	TBD
Project 5140		R-1 Shopping List - Item No. 155-13 of 155-15						Exhibit R-3 (PE 0207449F)			

Project 5140

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Exhibit R-3 (PE 0207449F)

Exhibit R-4, RDT&E Schedule Profile

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5140 Joint Expeditionary Force Experiments

JEFX - KEY Milestones Schedule

as of 19 Jan 06

Fiscal Year (FY)	04				05				06				07				08				09			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Perform Assessment					★								★								★			
Start integration of select initiatives					★								★								★			
Call for initiatives, APTX			★								★								★					
Initiative selection, AFPX			★								★								★					
Architecture development				★								★								★				
Conduct APTX							★								★								★	
Call for initiatives JEFX			★								★								★					
Initiative Selection JEFX				★								★								★				
Architecture development JEFX					★								★								★			
Conduct Spiral I								★								★								★
Conduct Spiral II	★								★								★							
Conduct Spiral III		★								★								★						
Conduct JEFX experiments			★								★								★					
Key: ★ = Major Events																								

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Exhibit R-4a, RDT&E Schedule Detail

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**5140 Joint Expeditionary Force
Experiments**(U) **Schedule Profile**FY 2005FY 2006FY 2007

(U) Assessment

1Q

1Q

(U) Integration of Initiatives

1Q

1Q

(U) APTX Call for Initiatives & Selection

3Q

(U) Architecture Development

4Q

(U) APTX

3Q

3Q

(U) JEFX Call for Initiatives

3Q

(U) JEFX Selection

4Q

4Q

(U) JEFX Architecture Developed

1Q

1Q

(U) Conduct Spiral 1

4Q

4Q

(U) Conduct Spiral 2

1Q

(U) Conduct Spiral 3

2Q

(U) Conduct JEFX Experiments

3Q