

UNCLASSIFIED

PE NUMBER: 0207028F

PE TITLE: Joint Expeditionary Force Experiment

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2004
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207028F Joint Expeditionary Force Experiment
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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	25.533	50.931	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4373 JEFX	19.439	44.455	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4991 Joint Distributed Engineering Plant (JDEP)	6.094	6.476	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FY05, project 674373, Joint Expeditionary Force Experiments (JEFX) work transferred to Program Element (PE) 0207449F, project 675140. Project 674991, Joint Distributed Engineering Plant (JDEP) work transferred to PE 0207601F, project 674991.

(U) A. Mission Description and Budget Item Justification

The 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.

In FY01, the Air Force moved to a biennial schedule for JEFX conducted in the even years. To reduce risk in the large scale experiments during the even years, a small scale Advanced Process and Technology Experiment (APTX) is scheduled for the odd years. These experiments will focus on specifically targeted capability requirements that will be part of the JEFX experiment. Transition of selected technologies to the warfighter will be based on a rigorous, defined process which ensures interoperability with fielded programs and maximum return on investment. Funding for transition of selected technologies is provided in the odd years only. Specific weapon system development and procurement activities are funded in their own budget lines as applicable.

In FY03, the JEFX Enterprise conducted small scale experiments and seminars designed to define the architectures, technology, and concepts of operations required to achieve the JEFX 04 objectives and reduce the risk to JEFX 04 experimentation with future generation Air and Space Operations Center (AOC) Weapons System and the C2 Constellation (formerly known as the Multi-Sensor Command and Control Constellation (MC2C)).

In FY04, JEFX 04 explored the horizontal integration (HI) capabilities of the C2 Constellation with a primary focus on the integration of an Advanced Technology Air Operations Center (AT-AOC) and Advanced Technology Distributed Ground System, with Command and Control, Intelligence, Surveillance, Reconnaissance (C2ISR). This enabled capabilities of the Multi-Sensor Command and Control Aircraft (MC2A), Family of Interoperable Operational Pictures, Battle Control System, Persistent Battlespace ISR, and the Deployable Theater Information Grid to be reviewed. The outcome was that the future architecture will be designed to achieve C2ISR capabilities required to support Global Strike Task Force (GSTF) and C2ISR concepts of operations. Those requisite C2ISR capabilities include Effects-Based Operations, Horizontal & Vertical Integration, Dynamic Engagement Control, Predictive Battlespace Awareness, Global Battlespace Visualization, Networked On-Demand Information, and Persistent Battlespace ISR. JEFX 04 provided a warfighting environment through an operational scenario designed to achieve the objectives of the GSTF.

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In addition, this PE funds the Joint Distributed Engineering Plant (JDEP) which connects combat system engineering sites and replicates Joint Force Combat Systems to create a network testbed to assess Joint Battle Management, Command, Control, Communication, Computers and Intelligence (BMC4I). JDEP's objective is to improve interoperability of weapons systems and platforms through more rigorous interoperability evaluation in a replicated battlefield environment. JDEP will link existing service and joint combat system engineering and test sites, such as Command, Control, Communications, Computers, & Intelligence (C4I) hardware in-the-loop and computer-program in-the-loop engineering sites (including design activities, software support activities, test and evaluation facilities and training commands) located around the country. Also, JDEP provides the capability both to improve service and joint systems performance in a system-of-systems environment.

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.

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

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	27.161	51.367	0.000
(U) Current PBR/President's Budget	25.533	50.931	0.000
(U) Total Adjustments	-1.628	-0.436	
(U) Congressional Program Reductions	-0.335		
Congressional Rescissions		-0.436	
Congressional Increases			
Reprogrammings	-0.505		
SBIR/STTR Transfer	-0.788		
(U) <u>Significant Program Changes:</u>			

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BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0207028F Joint Expeditionary Force Experiment			PROJECT NUMBER AND TITLE 4373 JEFX		
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
4373 JEFX	19.439	44.455	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

In FY05, project 674373 work transfers to Program Element (PE) 0207449F, Command and Control Constellation (C2 Constellation), project 675140, Joint Expeditionary Force Experiments (JEFX).

(U) A. Mission Description and Budget Item Justification

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BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0207028F Joint Expeditionary Force Experiment		PROJECT NUMBER AND TITLE 4373 JEFX				
(U)	Select and begin developing initiatives to introduce new technologies and operational capabilities into the AEF CONOPS.				0.800	0.000	0.000			
(U)	Develop systems architecture, systems engineering, and integration of initiatives into a cohesive system of systems. Integration of systems and processes is the major reason JEFX is an experiment and not simply a demonstration or exercise.				3.800	8.594	0.000			
(U)	Plan , design, coordinate, assess, and report the experiment. Provide expertise to support SPO functions of initiative selection, acquisition, program management, communications and systems planning.				4.164	0.000	0.000			
(U)	Implement architectural configuration, conduct M&S, install and test the communications infrastructure and execute the APTX 03 experiment.				1.700	0.000	0.000			
(U)	Transition the integration of new initiatives and legacy systems into an integrated C2ISR baseline. (This funding is in the odd years only.)				8.975	0.000	0.000			
(U)	Develop initiatives to introduce new technologies and operational capabilities into the AEF CONOPS and develop and install C2 center upgrades.				0.000	12.227	0.000			
(U)	Plan , design, coordinate, assess, and report the JEFX 04 experiment. Provide expertise to support SPO functions of initiative selection, acquisition, program management, communications and systems planning.				0.000	8.400	0.000			
(U)	Implement architectural configuration, conduct M&S, install and test the communications infrastructure and execute the JEFX 04 experiment.				0.000	15.234	0.000			
(U)	Total Cost				19.439	44.455	0.000			
(U)	<u>C. Other Program Funding Summary (\$ in Millions)</u>									
		<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)	Not Applicable									
(U)	<u>D. Acquisition Strategy</u>									
	Electronic Systems Center (ESC), Hanscom AFB, MA and Air Force C2ISR Center, Langley AFB, VA will manage the acquisition and development for the experimentation, integration, and fielding of selected technologies and processes with legacy systems into an integrated C2ISR baseline.									

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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</u> <u>Prior to FY</u> <u>2003</u> <u>Cost</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>Cost to Complete</u>	<u>Total</u> <u>Cost</u>	<u>Target</u> <u>Value of</u> <u>Contract</u>
				<u>2003</u> <u>Cost</u>	<u>2003</u> <u>Award</u> <u>Date</u>	<u>2004</u> <u>Cost</u>	<u>2004</u> <u>Award</u> <u>Date</u>	<u>2005</u> <u>Cost</u>	<u>2005</u> <u>Award</u> <u>Date</u>			
(U) <u>Product Development</u>												
MITRE	FFRDC	AFC2ISRC, Langely AFB, VA	6.500	1.250	Dec-02	3.500	Dec-03	0.000		Continuing	TBD	
GSA	Multiple	Various	5.500	1.250	Dec-02	2.975	Dec-03	0.000		Continuing	TBD	
ACS Defense	C/IDIQ	AFC2ISRC, Langely AFB, VA	1.500	1.066	Mar-03	2.907	Mar-04	0.000		Continuing	TBD	
MIT/LL	Various	ESC Hanscom AFB, MA	0.668	0.250	Dec-02	0.275	Dec-03	0.000		Continuing	TBD	
Northrup	Time & Material	ESC Hanscom AFB, MA	0.000	0.630	Mar-03	4.500	Mar-04	0.000		Continuing	TBD	
Lockheed Martin	C/CPAF	ESC Hanscom AFB, MA	0.000	3.770	Dec-02	0.000		0.000		Continuing	TBD	
SAF/FMBMB	MIPR	Pentagon, Washington DC	0.000	0.315	Dec-02	0.000		0.000		Continuing	TBD	
AFRL	MIPR	Various	0.000	0.140	Mar-03	0.000		0.000		Continuing	TBD	
AFSOC	MIPR	Various	0.000	0.800	Apr-03	0.000		0.000		Continuing	TBD	
ASC/RAB	MIPR	Various	0.000	0.000		0.870	Mar-04	0.000		Continuing	TBD	
CITPAD	C/Time & Material	AFC2ISRC, Langely AFB, VA	0.000	0.000		0.435	Mar-04	0.000		Continuing	TBD	
Logicon	C/Time & Material	AFC2ISRC, Langely AFB, VA	0.000	0.000		0.290	Dec-03	0.000		Continuing	TBD	
General Dynamics	C/Time & Material	AFC2ISRC, Langely AFB, VA	0.000	0.000		0.290	Oct-03	0.000		Continuing	TBD	
SPO/Other	MIPR	ESC Hanscom AFB, MA	6.154	3.605	Oct-02	7.384	Oct-03	0.000		Continuing	TBD	
L3 Comm	C/GSA	Various	1.000	1.000	Mar-03	1.000	Mar-04	0.000		Continuing	TBD	
TRW	C/GSA	Various	0.300	0.300	Mar-03	0.300	Mar-04	0.000		Continuing	TBD	
TRW	C/GSA	Various	0.250	0.000		0.270	Dec-03	0.000		Continuing	TBD	
AFC2TIG	MIPR	AFC2ISRC, Langely	8.630	0.000		8.770	Oct-03	0.000		Continuing	TBD	

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		AFB, VA									
Alion	C/GSA	Various	1.811	1.724	Dec-02	1.811	Dec-03	0.000	Continuing	TBD	
ACS Defense	C/GSA	Various	0.499	0.475	Oct-02	0.475	Oct-03	0.000	Continuing	TBD	
SAIC	C/GSA	Various	0.959	0.814	Dec-02	0.970	Dec-03	0.000	Continuing	TBD	
L3 Comm	C/GSA	Various	0.961	0.961	Mar-03	1.037	Mar-04	0.000	Continuing	TBD	
TRW	C/GSA	Various	0.287	0.287	Oct-02	0.300	Oct-03	0.000	Continuing	TBD	
Various	Various	Various	7.218	0.257	Oct-02	5.876	Oct-03	0.000	Continuing	TBD	
Zel Tech	C/GSA	Various	0.220	0.220	Dec-02	0.220	Dec-03	0.000	Continuing	TBD	
Subtotal Product Development			42.457	19.114		44.455		0.000	Continuing	TBD	0.000
Remarks:											
(U) <u>Support</u>											0.000
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000
Remarks:											
(U) <u>Test & Evaluation</u>											
46th Test Squadron	Project Order	Various	0.325	0.325					Continuing	TBD	
Subtotal Test & Evaluation			0.325	0.325		0.000		0.000	Continuing	TBD	0.000
Remarks:											
(U) <u>Management</u>											0.000
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000
Remarks:											
(U) Total Cost			42.782	19.439		44.455		0.000	Continuing	TBD	0.000

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4373 JEFX

	<u>FY 2002</u>				<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>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Conduct JEFX 02				X																												
Call for Initiatives/Selection, APTX 03						X																										
Architecture development, APTX 03						X																										
Perform Assessment, JEFX 02 (1Q FY03)					X																											
Conduct APTX 03								X																								
Call for Initiatives/Selection, JEFX 04					X	X																										
Architecture development, JEFX 04						X																										
Conduct Spiral I									X																							
Conduct Spiral II										X																						
Conduct Spiral III										X																						
Conduct JEFX 04											X																					
Perform Assessment, JEFX 2004 (1Q FY05)												X																				
Commence integration of selected initiative(1Q FY05)												X																				
Call for Integration/Selection, APTX 05												X																				
Architecture development												X																				
Conduct APTX 05												X																				
Call for initiatives JEFX 06												X																				
Initiative Selection JEFX 06												X																				
Architecture development JEFX 06												X																				
Conduct Spiral I													X																			
Conduct Spiral II														X																		
Conduct Spiral III														X																		
Conduct JEFX 2006 Experiments															X																	
Perform Assessment, JEFX 2006 (1Q FY07)																X																
Commence integration of selected initiative (1Q FY07)																X																
Call for Integration, APTX 07																	X															
Initiative selection, APTX 07																	X															
Architecture development																		X														
Conduct APTX 07																		X														
Call for initiatives JEFX 08																			X													
Initiative Selection JEFX 08																			X													
Architecture development JEFX 08																			X													
Conduct Spiral I																				X												
Conduct Spiral II																				X												
Conduct Spiral III																				X												
Conduct JEFX 2008 Experiments																					X											
Perform Assessment, JEFX 2008 (1Q FY09)																						X										
Commence integration of selected initiative (1Q FY09)																						X										
Call for Integration, APTX 09																							X									
Initiative selection, APTX 09																							X									
Architecture development																							X									
Conduct APTX 09																							X									

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Exhibit R-4a, RDT&E Schedule Detail

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PROJECT NUMBER AND TITLE

4373 JEFX

(U) Schedule Profile

- (U) Call for Initiatives, APTX 03
- (U) Initiative Selection, APTX 03
- (U) Architectural Development
- (U) Conduct APTX 03
- (U) Perform Assessment, JEFX 02
- (U) Call for Initiatives, JEFX 04
- (U) Initiative Selection, JEFX 04
- (U) Architectural Development, JEFX 04
- (U) Conduct Spiral I
- (U) Conduct Spiral II
- (U) Conduct Spiral III
- (U) Conduct JEFX 04

FY 2003

- 2Q
- 2Q
- 3Q
- 4Q
- 1Q
- 1Q
- 2Q
- 3Q

FY 2004

- 2Q
- 3Q
- 3Q
- 4Q

FY 2005

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BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0207028F Joint Expeditionary Force Experiment			PROJECT NUMBER AND TITLE 4991 Joint Distributed Engineering Plant (JDEP)		
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
4991 Joint Distributed Engineering Plant (JDEP)	6.094	6.476	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

FY02 was the first year of Joint Distributed Engineering Plant (JDEP) project execution under PE 0207028F.

In FY05, JDEP work transferred to PE 0207601F, USAF Modeling and Simulation, project 674991.

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

The Joint Distributed Engineering Plant (JDEP) connects combat system engineering sites and replicates Joint Force Combat Systems to create a network test bed to assess Joint Battle Management, Command, Control, Communication, Computers and Intelligence. Its objective is to improve interoperability of weapons systems and platforms through more rigorous interoperability evaluation in a replicated battlefield environment. JDEP will provide the capability both to improve service and joint system performance in a system-of-systems environment.

JDEP will link existing Service and Joint combat system engineering and test sites, such as C4I hardware in the loop and computer-program-in-the-loop engineering sites (including Design Activities, software support activities, test & evaluation facilities and training commands) located around the country.

This project is in Budget Activity 7 - Operational System Development because it provides a vehicle to developers, testers, and warfighters for experimentation, analysis, operational concepts, and new technologies to enhance operational system developments and improve capabilities of the 21st century aerospace forces.

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

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Continue site activations and Operations support. This includes hardware, software and activation cost for each site.	1.806	1.918	0.000
(U) Continue communication architectures, links and engineering and support for site activities.	1.068	1.318	0.000
(U) Continue existing JDEP support activities to include ops & maintenance support along with contracted personnel to assist in event activities.	1.275	1.275	0.000
(U) Continue development of systems architecture and integration, including engineering, for the JDEP repeatable environment.	0.490	0.490	0.000
(U) Continue experiment implementation and analysis to participant in various events during pre, during and post exercise events.	1.240	1.163	0.000
(U) Continue development of a simulation/stimulation environment for JDEP events.	0.215	0.312	0.000
(U) Total Cost	6.094	6.476	0.000

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**4991 Joint Distributed Engineering
Plant (JDEP)****(U) C. Other Program Funding Summary (\$ in Millions)****(U) D. Acquisition Strategy**

Electronic Systems Center (ESC), Hanscom AFB, MA will manage the acquisition and development process for the experimentation, integration and site activation activities for all Air Force JDEP activities. JDEP will provide and opportunity to perform integration activities with joint users from a single location for system integration, development and risk reduction activities.

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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</u> Prior to FY 2003 Cost	<u>FY</u> 2003 Cost	<u>FY</u> 2003 Award Date	<u>FY</u> 2004 Cost	<u>FY</u> 2004 Award Date	<u>FY</u> 2005 Cost	<u>FY</u> 2005 Award Date	<u>Cost to Complete</u>	<u>Total</u> Cost	<u>Target</u> Value of Contract
(U) <u>Product Development</u>												
ESC	MIPR	ESC Hanscom AFB, MA	1.090	0.319	Oct-02	0.350	Oct-03	0.000		Continuing	TBD	
ESC	Various	ESC Hanscom AFB, MA	0.150	0.000		0.000		0.000		Continuing	TBD	
Boeing	MIPR	ESC Hanscom AFB, MA	0.350	0.350	Oct-02	0.350	Oct-03	0.000		Continuing	TBD	
Northrop Grumman	Various	ESC Hanscom AFB, MA	0.000	0.050	Oct-02	0.000		0.000		Continuing	TBD	
ESC	Various	Various	0.500	0.000		0.200	Dec-03	0.000		Continuing	TBD	
DISA	MIPR	Various	0.650	1.068	Dec-02	1.218	Dec-03	0.000		Continuing	TBD	
ASC	ITSP	ESC Hanscom AFB, MA	0.590	0.768	Oct-02	0.790	Oct-03	0.000		Continuing	TBD	
MITRE	FFRDC	ESC Hanscom AFB, MA	0.470	0.660	Oct-02	0.675	Oct-03	0.000		Continuing	TBD	
DARPA/DISA	MIPR	Various	0.150	2.248	Oct-02	2.090	Oct-03	0.000		Continuing	TBD	
Raytheon	C/CPFF	ESC Hanscom AFB, MA	0.160	0.215	Dec-02	0.315		0.000		Continuing	TBD	
ESC	Various	ESC Hanscom AFB, MA	0.100	0.000		0.000		0.000		Continuing	TBD	
ESC	Various	ESC Hanscom AFB, MA	0.416	0.416	Dec-02	0.488	Dec-03	0.000		Continuing	TBD	
Subtotal Product Development			4.626	6.094		6.476		0.000		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u>												0.000
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												

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BUDGET ACTIVITY		PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE			
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46 Test Wing	MIPR	0.000				Continuing	TBD		
Subtotal Test & Evaluation		0.000	0.000	0.000	0.000	Continuing	TBD	0.000	
Remarks:									
(U) <u>Management</u>								0.000	
Subtotal Management		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Remarks:									
(U) Total Cost		4.626	6.094	6.476	0.000	Continuing	TBD	0.000	

Exhibit R-4, RDT&E Schedule Profile

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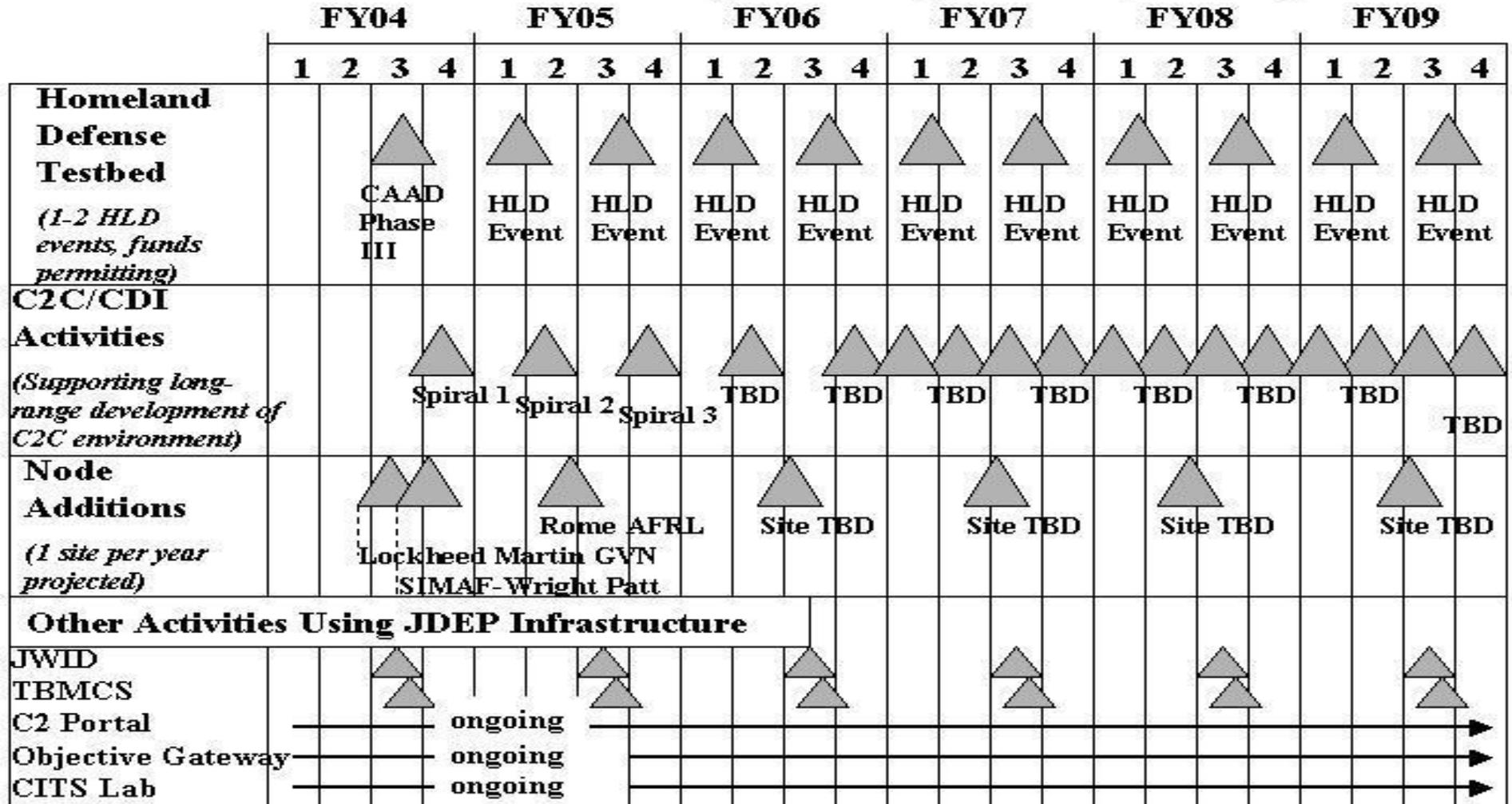
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0207028F Joint Expeditionary Force
Experiment

PROJECT NUMBER AND TITLE
4991 Joint Distributed Engineering
Plant (JDEP)

Joint Distributed Engineering Plant (JDEP)



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Exhibit R-4a, RDT&E Schedule Detail

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PROJECT NUMBER AND TITLE

4991 Joint Distributed Engineering Plant (JDEP)

(U) Schedule Profile

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Conduct SIAP Interoperability Event		2Q	
(U) Implement JDEP connectivity at Hanscom and other Air Force sites.	2Q	3Q	
(U) Conduct TACMEMO Interoperability Event		3Q	
(U) CAAD Event (Phase II)	3Q		
(U) JCMD Event	4Q		
(U) CAAD Event (Phase III)		2Q	