

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)</b>	DATE <b>February 1999</b>
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<b>BUDGET ACTIVITY</b> <b>7 - Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207438F Theater Battle Management (TBM) C4I</b>
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COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	29,208	30,254	43,727	41,433	32,663	30,388	31,020	31,667	Continuing	TBD
3330 Cmd Control Info Process Sys (C2IPS)	4,395	14,064	11,708	9,356	2,214	2,335	0	0	0	60,071
4287 Contingency Theater Automated Planning System (CTAPS)	18,844	12,321	0	0	0	0	0	0	0	82,942
4288 Wing C2 System (WCCS)	5,969	3,869	0	0	0	0	0	0	0	19,997
4790 Theater Battle Management Core System (TBMCS)	0	0	23,007	20,439	18,120	17,682	20,433	20,859	Continuing	TBD
4802 Deliberate and Crisis Action Planning and Execution Segment (DCAPES)	0	0	9,012	11,638	12,329	10,371	10,587	10,808	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

Note: Starting in FY00 the RDT&E funding for CTAPS (4287), WCCS (4288), and Combat Intelligence System (CIS) (27414F, 4773) will be combined in PE 27438F under project 4790, TBMCS. CTAPS, WCCS and CIS will be integrated in a single Defense Information Infrastructure Common Operating Environment (DII COE) compliant system and will be managed as a single project with the fielding of TBMCS 1.0 in FY99. DCAPES was previously funded in FY98 under PE 33152F and in FY99 under PE 33150F.

**(U) A. Mission Description**

TBM C4I develops force-level and wing-level command, control, and intelligence systems which utilize DoD's Defense Information Infrastructure (DII) common operating environment (COE). Acquisition of these systems will allow the execution of TBM planning, intelligence, and operational functions of the Joint Forces Air Component Commander (JFACC), including generation and dissemination of the air tasking order (ATO). Projects included in this program are Command & Control Information Processing System (C2IPS), Contingency Theater Automated Planning System (CTAPS), Wing Command & Control System (WCCS), Theater Battle Management Core Systems (TBMCS), and Deliberate and Crisis Action Planning and Execution Segment (DCAPES).

**(U) B. Budget Activity Justification:**

The TBMCS effort is Post Milestone III effort, and is in Budget Activity 7, Operational Systems Development because it incrementally upgrades and develops capabilities for currently operational systems.

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(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 1999 PB)	24,778	27,292	24,174	19,854	TBD
(U) Appropriated Value	27,013	30,792			
(U) Adjustments to Appropriated Value					
a. Congressional Reductions	-1,670	-538			
b. Small Business Innovative Research	-567				
c. Omnibus or Other Above Threshold Reprogram	-168				
d. Below Threshold Reprogram	4,600				
(U) Adjustments to Budget Years Since FY 1999 PB	0		19,553	21,579	
(U) Current Budget Submit / FY 2000 PB	29,208	30,254	43,727	41,433	TBD

(U) Significant Program Changes:

FY99: \$857 identified as a source for SBIR

Starting in FY00 the RDT&E funding for CTAPS (4287), WCCS (4288), and CIS (27414F, 4773) will be combined in PE 27438F under project 4790, TBMCS. CTAPS, WCCS and CIS will be integrated in a single DII/COE compliant system and will be managed as a single project with the fielding of TBMCS 1.0 in FY99. In addition we have transferred the DCAPEs project into TBM C4I.

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
(U) CIS Consolidation Into TBMCS project			10,172	9,009
(U) DCAPEs Transfer to TBM C4I			9,012	11,638
(U) NATO R&D Transfer to TBMCS Project			1,000	1,500

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BUDGET ACTIVITY <b>7 - Operational System Development</b>	PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>	PROJECT <b>3330</b>
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COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
3330 Cmd Cntrl Info Process Sys (C2IPS)	4,395	14,064	11,708	9,356	2,214	2,335	0	0	0	60,071

**(U) A. Mission Description**

The Command & Control Information Processing System (C2IPS) project develops communications and information processing hardware and software for all echelons of the Air Mobility Command (AMC). C2IPS provides AMC the capability to monitor in real-time the operational airlift and tanker functions associated with mission execution worldwide. The integration of C2IPS computer resources and software with improved High Frequency (HF) equipment and other available communications media will result in a unified AMC C2 System.

**(U) FY 1998 (\$ in Thousands):**

- (U) \$ 850 Continue increments 3A and 3B software development
- (U) \$ 2,514 Continue increment 3C (Performance, Network Improvements and Y2K revisions)
- (U) \$ 1,031 Start increment 4 (Detailed Planning & Scheduling for integration of AMC Aircraft Schedules)
- (U) \$ 4,395 Total

**(U) FY 1999 (\$ in Thousands):**

- (U) \$ 6,450 Complete C/S software and evaluation (3A/3B/3C)
- (U) \$ 6,215 Continue increment 4 (Detailed Planning & Scheduling for integration of AMC Aircraft Schedules)
- (U) \$ 1,000 Start requirements planning & segmentation for integration into DII COE
- (U) \$ 399 Identified as a source for SBIR
- (U) \$ 14,064 Total

**(U) FY 2000 (\$ in Thousands):**

- (U) \$ 2,769 Continue Increment 4 (Detailed Planning & Scheduling for integration of AMC Aircraft Schedules)
- (U) \$ 4,000 Continue requirement planning & segmentation for integration into DII/COE
- (U) \$ 4,939 Start next level DII/COE integration
- (U) \$ 11,708 Total

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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>		DATE <b>February 1999</b>				
<b>BUDGET ACTIVITY</b> <b>7 - Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207438F Theater Battle Management (TBM) C4I</b>	<b>PROJECT</b> <b>3330</b>				
<p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> <li>- (U) \$ 2,893 Continue Increment 4 (Detailed Planning &amp; Scheduling for integration of AMC aircraft schedules)</li> <li>- (U) \$ 2,500 Continue requirements planning &amp; segmentation for integration into DII/COE</li> <li>- (U) \$ 3,963 Continue higher level integration of C2IPS in DII/COE</li> <li>- (U) \$ 9,356 Total</li> </ul> <p>(U) <b>B. <u>Project Change Summary - Description of Significant Changes:</u></b> Not Applicable</p> <p>(U) <b>C. <u>Other Program Funding Summary (\$ in Thousands)</u></b></p> <table style="margin-left: 40px; border: none;"> <tr> <td style="width: 60%;"></td> <td style="text-align: center;"><u>FY 1998</u></td> </tr> <tr> <td>(U) Other Procurement, AF PE 27438F, WSC 834520</td> <td style="text-align: center;">1,876</td> </tr> </table> <p>\$1,876 of the procurement funds in 0207438F were for procurement of C2IPS equipment for non-Air Mobility Command units.</p> <p>(U) <b>D. <u>Acquisition Strategy</u></b></p> <p>The C2IPS will be developed and installed in four increments. A spiral development process is used to produce consecutive software releases within each increment. The first three increments were developed under contract with Computer Sciences Corporation. Increment 1 provided a digital data message handling capability at each Information Processing System (IPS) node and implements mission execution monitoring. Increment 2 builds on Increment 1 software to support mission planning and scheduling. Increment 3 will provide C2IPS with a client server architecture as part of the system migration efforts. Increment 4 continues the evolutionary acquisition process, using modular development through government wide agency contracts. It lays the foundation for the migration strategy that will merge features of C2IPS into TBMCS and achieve higher levels of DII/COE integration.</p>				<u>FY 1998</u>	(U) Other Procurement, AF PE 27438F, WSC 834520	1,876
	<u>FY 1998</u>					
(U) Other Procurement, AF PE 27438F, WSC 834520	1,876					
Project 3330	Page 4 of 26 Pages	Exhibit R-2A (PE 0207438F)				

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)												DATE February 1999				
BUDGET ACTIVITY <b>7 - Operational System Development</b>						PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>						PROJECT <b>3330</b>				
<b>(U) E. <u>Schedule Profile</u></b>																
*		<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>(U) <u>Increment 3 Completion Dates</u></b>																
<b>(U) Spiral A (Rel 3A)</b> * * * * *																
<b>(U) Spiral B (Rel 3B Comm Proc)</b> * * * * *																
<b>(U) Spiral C (Rel 3C Data Partitioning)</b> X																
<b>(U) <u>Increment 4 Completion Dates</u></b>																
<b>(U) Spiral A (Planning &amp; Sched)</b> X																
<b>(U) Spiral B (Plan &amp; Sched, DII/COE)</b> X																
<b>(U) Spiral C (Plan &amp; Sched, DII/COE)</b> X																
<b>(U) Spiral D (Plan &amp; Sched, DII/COE)</b> X																
<b>(U) Spiral E (Plan &amp; Sched, DII/COE)</b> X																
<b>(U) Spiral F (Plan &amp; Sched, DII/COE)</b> X																
Note: * Denotes Completed Event; X Denotes Planned Event																

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 1999				
BUDGET ACTIVITY 7 - Operational System Development				PE NUMBER AND TITLE 0207438F Theater Battle Management (TBM) C4I				PROJECT 3330			
<b>(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u></b>											
				<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>				
(U)	Major Product Development Contracts			2,963	11,782	9,624	7,682				
(U)	Support Contracts			1,208	1,386	1,426	1,256				
(U)	Program Management Support			224	497	658	418				
(U)	Identified as a source for SBIR				399						
(U)	Total			4,395	14,064	11,708	9,356				
<b>(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>											
<b>Performing Organizations:</b>											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
Identified as a source for SBIR							399				399
<u>Product Development Organizations</u>											
CSC	FPIF	Dec 88	TBD	TBD	10,884	2,963	5,600	0	0	0	19,447
New Award	IDIQ	Dec 98	TBD	TBD	0	0	6,182	9,624	7,682	3,735	27,223
<u>Support and Management Organizations</u>											
MITRE	T&M	Oct 94	n/a	n/a	3,471	1,062	1,057	1,087	906	441	8,024
TEMS	Various	Various	n/a	n/a	820	146	329	339	350	170	2,154
ESC (government organization)	n/a	n/a	n/a	n/a	824	224	497	658	418	203	2,824
<u>Test and Evaluation Organizations</u> - Not Applicable.											

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<b>RDT&amp;E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)</b>						DATE <b>February 1999</b>	
BUDGET ACTIVITY			PE NUMBER AND TITLE			PROJECT	
<b>7 - Operational System Development</b>			<b>0207438F Theater Battle Management (TBM) C4I</b>			<b>3330</b>	
<b>Government Furnished Property:</b> Not Applicable							
	Total						
	<u>Prior to</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
	<u>FY 1998</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Identified as a source for SBIR			399				399
Subtotal Product Development	10,884	2,963	11,782	9,624	7,682	3,735	46,670
Subtotal Support and Management	5,115	1,432	1,883	2,084	1,674	814	13,002
Subtotal Test and Evaluation	0	0	0	0	0	0	0
<b>Total Project</b>	<b>15,999</b>	<b>4,395</b>	<b>14,064</b>	<b>11,708</b>	<b>9,356</b>	<b>4,549</b>	<b>60,071</b>

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BUDGET ACTIVITY <b>7 - Operational System Development</b>	PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>	PROJECT <b>4287</b>
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COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
4287 Contingency Theater Automated Planning System (CTAPS)	18,844	12,321	0	0	0	0	0	0	0	82,942

**(U) A. Mission Description**

The Contingency Theater Automated Planning System (CTAPS) program directly supports the Joint Forces Air Component Commander (JFACC) in the planning and execution of the theater air campaign down to the unit level. The system is designed to an open system standard, promoting interoperability among USAF, Services, and Allied command and control systems. The air tasking order generation and dissemination capabilities of CTAPS are the standard for all DoD command and control systems.

**(U) FY 1998 (\$ in Thousands):**

- (U) \$ 9,879 Continue TBMCS software version 1.0 development.
- (U) \$ 738 Initiate TBMCS post version 1.0 development.
- (U) \$ 2,550 Continue development of new ATO format.
- (U) \$ 1,077 Systems engineering and support
- (U) \$ 4,600 Expeditionary Force Experiment
- (U) \$ 18,844 Total

**(U) FY 1999 (\$ in Thousands):**

- (U) \$ 5,727 Complete TBMCS software version 1.0 development.
- (U) \$ 4,148 Continue TBMCS v1.1 and v2.0 development.
- (U) \$ 1,100 Complete development of new ATO format.
- (U) \$ 997 System engineering and support.
- (U) \$ 349 Identified as a source for SBIR
- (U) \$12,321 Total

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
<b>7 - Operational System Development</b>	<b>0207438F Theater Battle Management (TBM) C4I</b>	<b>4287</b>
<p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none"><li>- (U) \$0 No further funding in this project. Further evolution of this functionality continues under project 4790, TBMCS.</li><li>- (U) \$0 Total</li></ul> <p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none"><li>- (U) \$0 No further funding in this project. Further evolution of this functionality continues under project 4790, TBMCS.</li><li>- (U) \$0 Total</li></ul> <p>(U) <b>B. <u>Project Change Summary - Description of Significant Changes:</u></b></p> <p>With the fielding of TBMCS 1.0 in FY99 CTAPS functionality will be integrated in TBMCS and further evolution of this functionality will be managed under project 4790, TBMCS.</p> <p>(U) <b>C. <u>Other Program Funding Summary (\$ in Thousands) -</u></b></p> <p>See Other Program Funding Summary under project 4790, TBMCS. The summary under 4790 includes other program funding for CTAPS and WCCS in FY98 and FY99 to provide a consolidated view of other program funding associated with the TBMCS program.</p> <p>(U) <b>D. <u>Acquisition Strategy:</u></b></p> <p>Electronic Systems Center (ESC), Hanscom AFB, MA manages the TBMCS program, including CTAPS. Lockheed-Martin Mission Systems (LMMS) was competitively selected after full and open competition. They were awarded a cost plus award fee contract to develop improved capabilities in support of effective Theater Battle Management and to integrate existing capabilities in the DII Common Operating Environment. The program uses an evolutionary acquisition strategy with a series of incremental software releases. This approach accommodates refinement and prioritization of user requirements and improves adaptability to improvements in commercial technology.</p>		
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BUDGET ACTIVITY <b>7 - Operational System Development</b>	PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>	PROJECT <b>4287</b>
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(U) **E. Schedule Profile:**

	<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
(U) TBMCS S/W Version 1.0																
(U) In-Plant Test				*												
(U) Version 1.0 Release						X										
(U) TBMCS S/W Version 2.0																
(U) In-Plant Test									X							
(U) Version 2.0 Release														X		

Note: \* Denotes Completed Event; X Denotes Planned Event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 1999				
BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0207438F Theater Battle Management (TBM) C4I				PROJECT 4287		
<b>(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u></b>											
					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U)	System Integration and Development				17,767	10,975	0	0			
(U)	System Engineering and Support				1,077	997	0	0			
(U)	Identified as a source for SBIR					349					
(U)	Total				18,844	12,321	0	0			
<b>(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>											
<b>Performing Organizations:</b>											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
Identified as a source for SBIR							349				349
<b><u>Product Development Organizations</u></b>											
LMMS	CPAF	Oct 95	TBD	TBD	17,497	14,342	9,800	0	0	0	41,639
SAIC (S/W INT) Hampton VA	CPFF	Mar 94	n/a	n/a	11,085	0	0	0	0	0	11,085
SAIC (ASOC/BSD) Hampton VA, Anchorage AK	CPFF	Feb 94	n/a	n/a	3,759	0	0	0	0	0	3,759
PARAMAX (APS) St Paul MN	CPFF	Mar 94	n/a	n/a	1,207	0	0	0	0	0	1,207
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BUDGET ACTIVITY <b>7 - Operational System Development</b>					PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>					PROJECT <b>4287</b>	
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
INEL (ASOC)	CPFF	Oct 94	n/a	n/a	1,243	800	0	0	0	0	2,043
Idaho Falls ID											
Logicon, Inc San Pedro, CA	CPFF	Jun 94	n/a	n/a	3,610	2,550	1,100	0	0	0	7,260
Miscellaneous	Various	Various	n/a	n/a	410	0	0	0	0	0	410
<u>Support and Management Organizations</u>											
MITRE	CPAF	Oct 94	n/a	n/a	6,528	420	339	0	0	0	7,287
TEMS	T&M	Various	n/a	n/a	3,253	657	658	0	0	0	4,568
Miscellaneous	Various	Various	n/a	n/a	2,978	0	0	0	0	0	2,978
<u>Test and Evaluation Organizations</u>											
46 TS	Project Order	Various	n/a	n/a	130	75	75	0	0	0	280
JTIC	MIPR	Various	n/a	n/a	77	0	0	0	0	0	77
<b>Government Furnished Property:</b> Not Applicable											
					Total						
					Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
Identified as a source for SBIR							349				349
Subtotal Product Development					38,811	17,692	10,900	0	0	0	67,403
Subtotal Support and Management					12,759	1,077	997	0	0	0	14,833
Subtotal Test and Evaluation					207	75	75	0	0	0	357
Total Project					51,777	18,844	12,321	0	0	0	82,942

DATE  
**February 1999**

BUDGET ACTIVITY  
**7 - Operational System Development**

PE NUMBER AND TITLE  
**0207438F Theater Battle Management (TBM) C4I**

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BUDGET ACTIVITY <b>7 - Operational System Development</b>				PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>				PROJECT <b>4288</b>		
<i>COST (\$ In Thousands)</i>	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
4288 Wing C2 System (WCCS)	5,969	3,869	0	0	0	0	0	0	0	19,997
<p><b>(U) A. <u>Mission Description</u></b></p> <p>This project includes development of mission critical application software for WCCS operating on commercially available hardware and system software. Wing commanders require an accurate, composite picture of their wing's total resources to effectively command, control, and manage their forces in support of their combat sortie generation and reporting responsibilities. Key functional areas (operations, maintenance, mission planning, intelligence, weather, etc.) use WCCS to support the wing commander in the mission execution and reporting process by exchanging critical command and control and intelligence information with functional counterparts located throughout the wing. The introduction of increasingly sophisticated weapon systems - with their need for and ability to produce large amounts of data - require an automated C2 system to bring meaningful, consolidated information to the Commander in near real-time. At many wings not yet upgraded with WCCS this information is still relayed over secure and unsecured telephones, radios, and other communications devices, as well as by runners to update multi-user status displays (grease boards) or hand written logs. These techniques have not changed substantially since World War II, and are cumbersome, error-prone, are subject to security compromise, and involve duplication of effort. Disparate programs have led to the proliferation of stovepipe systems which can not provide interoperability and do not adequately meet the needs of today's air operations. The WCCS project designs, develops, and installs an automated, standard wing-level C2 system that will be tailored to meet unique organizational requirements, provide interoperability, and reduce training and maintenance costs.</p> <p><b>(U) <u>FY 1998 (\$ in Thousands):</u></b></p> <ul style="list-style-type: none"> <li>- (U) \$5,203 Continue TBMCS software version 1.0 development.</li> <li>- (U) \$ 305 Initiate TBMCS post version 1.0 development.</li> <li>- (U) \$ 461 Systems engineering and support.</li> <li>- (U) \$5,969 Total</li> </ul> <p><b>(U) <u>FY 1999 (\$ in Thousands):</u></b></p> <ul style="list-style-type: none"> <li>- (U) \$1,006 Complete TBMCS software version 1.0 development.</li> <li>- (U) \$2,327 Continue TBMCS v1.1 and v2.0 development.</li> <li>- (U) \$ 427 Systems engineering and support.</li> <li>- (U) \$ 109 Identified as a source for SBIR</li> <li>- (U) \$3,869 Total</li> </ul>										
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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>		DATE <b>February 1999</b>
BUDGET ACTIVITY <b>7 - Operational System Development</b>	PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>	PROJECT <b>4288</b>
<p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> <li>- (U) \$0            No further funding in this project. Further evolution of this functionality continues under project 4790, TBMCS.</li> <li>- (U) \$0            Total</li> </ul> <p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> <li>- (U) \$0            No further funding in this project. Further evolution of this functionality continues under project 4790, TBMCS.</li> <li>- (U) \$0            Total</li> </ul> <p>(U) <b>B. <u>Project Change Summary - Description of Significant Changes:</u></b></p> <p>With the fielding of TBMCS 1.0 in FY99 WCCS functionality will be integrated in TBMCS and further evolution of this functionality will be managed under project 4790, TBMCS.</p> <p>(U) <b>C. <u>Other Program Funding Summary (\$ in Thousands)</u></b></p> <p>See Other Program Funding Summary under project 4790, TBMCS. The summary under 4790 includes other program funding for CTAPS and WCCS in FY98 and FY99 to provide a consolidated view of other program funding associated with the TBMCS program.</p> <p>(U) <b>D. <u>Acquisition Strategy:</u></b></p> <p>Electronic Systems Center (ESC), Hanscom AFB, MA manages the TBMCS program, including WCCS. Lockheed-Martin Mission Systems (LMMS) was competitively selected after full and open competition. They were awarded a cost plus award fee contract to develop improved capabilities in support of effective Theater Battle Management and to integrate existing capabilities in the DII Common Operating Environment. The program uses an evolutionary acquisition strategy with a series of incremental software releases. This approach accommodates refinement and prioritization of user requirements and improves adaptability to improvements in commercial technology.</p>		
Project 4288	Page 14 of 26 Pages	Exhibit R-2A (PE 0207438F)

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>	DATE <b>February 1999</b>
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BUDGET ACTIVITY <b>7 - Operational System Development</b>	PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>	PROJECT <b>4288</b>
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(U) E Schedule Profile

	<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
(U) TBMCS S/W Version 1.0																
(U) In-Plant Test				*												
(U) Version 1.0 Release						X										
(U) TBMCS S/W Version 2.0																
(U) In-Plant Test										X						
(U) Version 2.0 Release														X		

Note: \* Denotes Completed Event; X Denotes Planned Event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 1999				
BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0207438F Theater Battle Management (TBM) C4I				PROJECT 4288		
<b>(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u></b>											
					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U)	System Integration and Development				5,508	3,333	0	0			
(U)	Systems Engineering and Support				461	427	0	0			
(U)	Identified as a source for SBIR					109					
(U)	Total				5,969	3,869	0	0			
<b>(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>											
<b>Performing Organizations:</b>											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
							109				109
<u>Product Development Organizations</u>											
LMMS	CPAF	Oct 95	TBD	TBD	2,837	5,508	3,333	0	0	0	11,678
SAIC	CPFF	Jan 94	n/a	n/a	5,000	0	0	0	0	0	5,000
<u>Support and Management Organizations</u>											
MITRE	CPAF	Oct 94	n/a	n/a	926	180	145	0	0	0	1,251
TEMS & Misc	Various	Various	n/a	n/a	1,268	281	282	0	0	0	1,831
<u>Test and Evaluation Organizations</u> - Not Applicable											
Project 4288					Page 16 of 26 Pages			Exhibit R-3 (PE 0207438F)			

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 1999		
BUDGET ACTIVITY 7 - Operational System Development				PE NUMBER AND TITLE 0207438F Theater Battle Management (TBM) C4I				PROJECT 4288		
<b>Government Furnished Property:</b>										
<u>Item Description</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Delivery Date</u>	<u>Total Prior to FY 1998</u>	<u>Budget FY 1998</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Property</u>										
Local Purchase	Various	Various	Various	128	0	0	0	0	0	128
<u>Support and Management Property</u> - Not Applicable										
<u>Test and Evaluation Property</u> - Not Applicable										
				<u>Total Prior to FY 1998</u>	<u>Budget FY 1998</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
Identified as a source for SBIR						109				109
Subtotal Product Development				7,965	5,508	3,333	0	0	0	16,806
Subtotal Support and Management				2,194	461	427	0	0	0	3,082
Subtotal Test and Evaluation				0	0	0	0	0	0	0
<b>Total Project</b>				<b>10,159</b>	<b>5,969</b>	<b>3,869</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19,997</b>

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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>								DATE <b>February 1999</b>		
BUDGET ACTIVITY <b>7 - Operational System Development</b>					PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>				PROJECT <b>4790</b>	
<i>COST (\$ In Thousands)</i>	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
4790 Theater Battle Management Core System (TBMCS)	0	0	23,007	20,439	18,120	17,682	20,433	20,859	Continuing	TBD
<p><b>(U) A. <u>Mission Description</u></b></p> <p>The Theater Battle Management Core Systems (TBMCS) develops force-level and wing-level command, control, and intelligence systems which utilize DoD's Defense Information Infrastructure (DII) common operating environment (COE). It links planning, intelligence and operations functions in an integrated battle management system for planning and executing the air war at the theater level. Functions supported include generation and dissemination of the air tasking order in support of the Joint Forces Air Component Commander (JFACC). Projects being integrated in TBMCS include the Contingency Theater Automated Planning System (CTAPS), Wing Command &amp; Control System (WCCS), and Combat Intelligence System (CIS). Funds were added in FY00 and FY01 for NATO R&amp;D to collectively enhance interoperability between the emerging NATO ACCS and TBMCS, and to share relevant research.</p> <p><b>(U) <u>FY 1998 (\$ in Thousands):</u></b></p> <ul style="list-style-type: none"> <li>- (U) \$0 Funds were reflected under CTAPS (4287), WCCS (4288), and CIS (PE 27414F, 2758)</li> <li>- (U) \$0 Total</li> </ul> <p><b>(U) <u>FY 1999 (\$ in Thousands):</u></b></p> <ul style="list-style-type: none"> <li>- (U) \$0 Funds were reflected under CTAPS (4287), WCCS (4288), and CIS (PE 27414F, 4773)</li> <li>- (U) \$0 Total</li> </ul> <p><b>(U) <u>FY 2000 (\$ in Thousands):</u></b></p> <ul style="list-style-type: none"> <li>- (U) \$14,300 Continue TBMCS software version 2.0 development.</li> <li>- (U) \$ 5,307 Initiate TBMCS post version 2.0 development.</li> <li>- (U) \$ 2,400 Systems engineering and support.</li> <li>- (U) \$ 1,000 NATO R&amp;D</li> <li>- (U) \$23,007 Total</li> </ul>										
Project 4790			<i>Page 18 of 26 Pages</i>				Exhibit R-2A (PE 0207438F)			

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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>	DATE <b>February 1999</b>
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<b>BUDGET ACTIVITY</b> <b>7 - Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207438F Theater Battle Management (TBM) C4I</b>	<b>PROJECT</b> <b>4790</b>
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(U) FY 2001 (\$ in Thousands):

- (U) \$ 2,504 Complete TBMCS software version 2.0 development.
- (U) \$14,535 Software development for TBMCS post version 2.0.
- (U) \$ 1,900 Systems engineering and support.
- (U) \$ 1,500 NATO R&D
- (U) \$20,439 Total

(U) **B. Project Change Summary - Description of Significant Changes:**

Starting in FY00 the RDT&E funding for CTAPS (4287), WCCS (4288), and CIS (27414F, 4773) will be combined in PE 27438F under project 4790, TBMCS. CTAPS, WCCS and CIS will be integrated in a single DII/COE compliant system and will be managed as a single project with the fielding of TBMCS 1.0 in FY99. NATO R&D funding was also transferred to this project in FY00 and FY 01 as shown in the program level change summary.

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

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) Other Procurement, AF, PE 27438F, WSC 832010	0	0	17,885	13,899	11,407	11,393	11,633	11,896	Cont	TBD
(U) Other Procurement, AF, PE 27438F, WSC 834520	42,686	44,150	47,648	51,554	44,844	44,054	44,983	45,998	Cont	TBD
(U) RDT&E, PE 0207414F, CIS	11,760	9,362	0	0	0	0	0	0	0	21,122
(U) Other Procurement, AF, PE 0207414F, WSC 832010, Intelligence Data Handling System, Combat Intelligence System portion	14,111	12,555	0	0	0	0	0	0	0	26,666
(U) Other Procurement, AF, PE 0207431F, WSC 832010, Intelligence Data Handling System, Combat Intelligence System portion	3,612	2,885	4,692	3,245	2,844	2,834	2,895	2,959	Cont	TBD

Note: This summary includes other program funding associated with CTAPS, WCCS, and CIS in FY98 and FY99 to provide a consolidated view of other program funding associated with the TBMCS program. Please note, the other program funds associated with PEs 0207414F and 0207431F in FY98 and FY99 are reported both here and as other program funds under the descriptive summary for PE 0207414F, Combat Intelligence System.

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>	DATE <b>February 1999</b>
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BUDGET ACTIVITY <b>7 - Operational System Development</b>	PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>	PROJECT <b>4790</b>
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**(U) D. Acquisition Strategy**

Electronic Systems Center (ESC), Hanscom AFB, MA manages the TBMCS program. Lockheed-Martin Mission Systems (LMMS) was competitively selected after full and open competition. They were awarded a cost plus award fee contract to develop improved capabilities in support of effective Theater Battle Management and to integrate existing capabilities in the DII Common Operating Environment. The program uses an evolutionary acquisition strategy with a series of incremental software releases. This approach accommodates refinement and prioritization of user requirements and improves adaptability to improvements in commercial technology.

**(U) E. Schedule Profile**

	<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
(U) TBMCS S/W Version 1.0																
(U) In-Plant Test				*												
(U) Version 1.0 Release						X										
(U) TBMCS S/W Version 2.0																
(U) In-Plant Test										X						
(U) Version 2.0 Release														X		

Note: \* Denotes Completed Event; X Denotes Planned Event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 1999	
BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0207438F Theater Battle Management (TBM) C4I					PROJECT 4790	
<b>(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u></b>											
					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U) System Integration and Development					0	0	20,607	18,539			
(U) System Engineering and Support					0	0	2,400	1,900			
(U) Total					0	0	23,007	20,439			
<b>(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>											
<b>Performing Organizations:</b>											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Product Development Organizations</u>											
LMCCS	CPAF	Oct 95	TBD	TBD	0	0	0	19,732	17,189	Cont	TBD
AEM Inc.	FFFP	Oct 99	TBD	TBD	0	0	0	125	200	TBD	TBD
DRC	FFFP	Oct 99	TBD	TBD	0	0	0	150	150	TBD	TBD
SAIC	FFFP	Oct 99	TBD	TBD	0	0	0	175	250	TBD	TBD
AFRL, Rome NY	AF 616	Oct 99	TBD	TBD	0	0	0	175	300	TBD	TBD
ESC			TBD	TBD	0	0	0	100	150	TBD	TBD
AFRL, Hanscom	AF 616	Oct 99	TBD	TBD	0	0	0	150	300	TBD	TBD
<u>Support and Management Organizations</u>											
MITRE	CPAF	Oct 94	n/a	n/a	0	0	0	1,000	800	Cont	TBD
TEMS	T&M	Various	n/a	n/a	0	0	0	1,400	1,100	Cont	TBD
<u>Test and Evaluation Organizations</u> - Not Applicable											

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 1999			
BUDGET ACTIVITY 7 - Operational System Development				PE NUMBER AND TITLE 0207438F Theater Battle Management (TBM) C4I			PROJECT 4790			
<b>(U) B. Budget Acquisition History and Planning Information Continued (\$ in Thousands)</b>										
Government Furnished Property: Not Applicable										
<u>Item Description</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Delivery Date</u>	<u>Total Prior to FY 1998</u>	<u>Budget FY 1998</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Property</u>				0	0	0	0	0	0	0
<u>Support and Management Property</u>				0	0	0	0	0	0	0
<u>Test and Evaluation Property</u>										
Subtotal Product Development				0	0	0	20,607	18,539	Cont	TBD
Subtotal Support and Management				0	0	0	2,400	1,900	Cont	TBD
Subtotal Test and Evaluation				0	0	0	0	0	Cont	TBD
Total Project				0	0	0	23,007	20,439	Cont	TBD

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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>	DATE <b>February 1999</b>
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<b>BUDGET ACTIVITY</b> <b>7 - Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207438F Theater Battle Management (TBM) C4I</b>	<b>PROJECT</b> <b>4802</b>
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COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
4802 Deliberate and Crisis Action Planning and Execution Segment (DCAPES)	0	0	9,012	11,638	12,329	10,371	10,587	10,808	Continuing	TBD

Note: DCAPES was previously funded in FY98 under PE 33152F, project 4485 and in FY99 under PE 33150F, project 4667.

**(U) A. Mission Description**

Deliberate and Crisis Action Planning and Execution Segments (DCAPES) are being developed as the next generation AF interface to the Joint Operational Planning and Execution System (JOPEs). This effort is an evolutionary follow on to the Contingency Operations Mobility Planning and Execution System (COMPES), which is currently our interface to JOPEs. COMPES is the legacy system ported from WWMCCS to GCCS in 1996 as a stop gap measure. DCAPES will replace the functionality of COMPES with modern relational databases, integrated-distributed database, and common and shared data consistent with the Joint vision for integrated C2. DCAPES is intended to be more tightly coupled with the range of planning support systems to provide a more effective crisis action planning capability for a wider range of operational scenarios.

**(U) FY 1998 (\$ in Thousands):**

- (U) \$0 FY98 funding reflected in PE 33152F
- (U) \$0 Total

**(U) FY 1999 (\$ in Thousands):**

- (U) \$0 FY99 funding reflected in PE 33150F
- (U) \$0 Total

**(U) FY 2000 (\$ in Thousands):**

- (U) \$4,512 DCAPES Increment 1 development, prototyping, coding and internal testing
- (U) \$ 500 Government development and test support
- (U) \$ 500 DCAPES Increment 2 requirements definition
- (U) \$3,500 DCAPES Increment 2 development, requirements allocation, prototyping, and coding
- (U) \$9,012 Total

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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>	DATE <b>February 1999</b>
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BUDGET ACTIVITY <b>7 - Operational System Development</b>	PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>	PROJECT <b>4802</b>
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(U) FY 2001 (\$ in Thousands):

- (U) \$10,638 DCAPES Increment 2 development, prototyping, coding and testing
- (U) \$ 500 Government development testing and integration and interoperability testing.
- (U) \$ 500 DCAPES Increment 3 requirements definition
- (U) \$11,638 Total

(U) **B. Project Change Summary - Description of Significant Changes:**

All funding in project 4802, DCAPES was reported in FY99 under PE 33150F, project 4667. It was transferred to group it with other TBM C4I software development efforts intended to operate in the Defense Information Infrastructure Common Operating Environment.

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

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) PE 33152 (RDT&E, 4485, AF-GCCS)	2,265									2,265
(U) PE 33150 (RDT&E, 4667, Global Command and Control System - AF)		9,122								9,122

(U) **D. Acquisition Strategy**

DCAPES will be managed by Electronic Systems Center, Hanscom AFB, MA. In July 98, the DCAPES contract was awarded to the Raytheon, Computer Sciences Corporation, and Science Applications International team under Command and Control Product Line (CCPL) contracts awarded and maintained by Electronic Systems Center. The program uses an evolutionary acquisition strategy with a series of incremental software releases. This approach accommodates refinement and prioritization of user requirements and improves adaptability to improvements in commercial technology.

(U) **E. Schedule Profile**

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
	1 2 3	4 1 2 3	4 1 2 3	4 1 2 3
(U) DCAPES Contract Award		*		
(U) DCAPES Initial Increment Fielded			X	
(U) DCAPES Increment 2 Fielded				X

		DATE <b>February 1999</b>
BUDGET ACTIVITY <b>7 - Operational System Development</b>	PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>	
Note: * Denotes Completed Event; X Denotes Planned Event		

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 1999				
BUDGET ACTIVITY <b>7 - Operational System Development</b>				PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>				PROJECT <b>4802</b>			
<b>(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u></b>											
				<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>				
(U)	Development Contract Effort			0	0	7,012	9,038				
(U)	Test Support			0	0	500	700				
(U)	Program Management Support			0	0	1,200	1,400				
(U)	Expeditionary Force Experiment			0	0	300	500				
(U)	Total			0	0	9,012	11,638				
Note: DCAPEs was previously funded in FY98 under PE 33152F, project 4485 and in FY99 under PE 33150F, project 4667.											
<b>(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>											
<b>Performing Organizations:</b>											
<u>Contractor or Government Performing Activity</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Performing Activity EAC</u>	<u>Project Office EAC</u>	<u>Total Prior to FY 1998</u>	<u>Budget FY 1998</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>											
(U)	Raytheon/ CSC/ SAIC	FP/LH with award fee	Feb 98	n/a	n/a	0	0	0	7,312	9,538	Cont TBD
<u>Support and Management Organizations</u>											
(U)	Mitre	CPAF				0	0	0	800	800	Cont TBD
(U)	TEMS	T&M				0	0	0	400	600	Cont TBD
<u>Test and Evaluation Organizations</u>											
	46 Test Sqdn	MIPR				0	0	0	500	700	Cont TBD
Note: DCAPEs was previously funded in FY98 under PE 33152F, project 4485 and in FY99 under PE 33150F, project 4667.											
Project 4802				Page 25 of 26 Pages				Exhibit R-3 (PE 0207438F)			

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<b>RDT&amp;E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)</b>	DATE <b>February 1999</b>
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BUDGET ACTIVITY <b>7 - Operational System Development</b>	PE NUMBER AND TITLE <b>0207438F Theater Battle Management (TBM) C4I</b>	PROJECT <b>4802</b>
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**(U) B. Budget Acquisition History and Planning Information Continued (\$ in Thousands)**

**Government Furnished Property:** Not applicable

	Total Prior to <u>FY 1998</u>	Budget <u>FY 1998</u>	Budget <u>FY 1999</u>	Budget <u>FY 2000</u>	Budget <u>FY 2001</u>	Budget to <u>Complete</u>	Total <u>Program</u>
Subtotal Product Development	0	0	0	7,312	9,538	Cont	TBD
Subtotal Support and Management	0	0	0	1,200	1,400	Cont	TBD
Subtotal Test and Evaluation	0	0	0	500	700	Cont	TBD
<b>Total Project</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,012</b>	<b>11,638</b>	<b>Cont</b>	<b>TBD</b>

Note: DCAPES was previously funded in FY98 under PE 33152F, project 4485 and in FY99 under PE 33150F, project 4667.

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