

UNCLASSIFIED

PE NUMBER: 0401840F

PE TITLE: AMC COMMAND & CONTROL SYSTEM

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2005

BUDGET ACTIVITY

03 Advanced Technology Development (ATD)

PE NUMBER AND TITLE

0401840F AMC COMMAND & CONTROL SYSTEM

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	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	8.027	5.985	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5085 Agile Transportation	8.027	5.985	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

In FY04, this is a new PE.

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

Agile Transportation for the 21st Century (AT21) Advanced Concept Technology Development (ACTD) provides for a suite of decision support tools capitalizing on emerging technology to enhance command and control of the Defense Transportation System (DTS). In concert with Joint Vision 2020, AT21 will focus on identifying, exploring, and fostering advanced synergistic technologies for transportation and sustainment processes with an 'end-to-end' systems perspective. AT21 will transition both COTS and GOTS maturing database, optimization and collaboration technologies into the Defense Transportation System (DTS) to improve peacetime and wartime transportation operations for all Combatant Commanders, Services, and governmental entities. Transportation mode determination and optimization for strategic lift will be based on objective, time-sensitive delivery criteria. The United States Transportation Command (USTRANSCOM) will have the ability to provide the supported CINC with modal alternatives to meet such deployment requirements as required delivery date in theater. Assignment to sealift of collaboratively selected, sealift-qualified, movement requirements will automatically increase availability of scarce airlift assets for assignment to true mission critical requirements. AT21 will produce a software toolsuite for synchronizing and optimizing all DTS operations through unit level execution. This effort will produce an immediate return on investment through better lift aggregation, cost avoidance by increased lift optimization and quality of life of the service members, due to better scheduling. Additionally, this effort will support the Combatant Commanders with improved, rapid, and collaborative transportation planning to support any force deployment.

This program is in Budget Activity 3, Advanced Technology Development, since it develops and demonstrates cost-effective technologies to improve the design, performance, and support of current and future weapon systems.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	7.757	5.985	0.000	0.000
(U) Current PBR/President's Budget	8.027	5.985	0.000	0.000
(U) Total Adjustments	0.270	0.000		
(U) Congressional Program Reductions	-0.051			
Congressional Rescissions				
Congressional Increases				
Reprogrammings	0.489			
SBIR/STTR Transfer	-0.168			
(U) <u>Significant Program Changes:</u>				

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BUDGET ACTIVITY 03 Advanced Technology Development (ATD)					PE NUMBER AND TITLE 0401840F AMC COMMAND & CONTROL SYSTEM			PROJECT NUMBER AND TITLE 5085 Agile Transportation		
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5085 Agile Transportation	8.027	5.985	0.000	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	0		

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

Agile Transportation for the 21st Century (AT21) Advanced Concept Technology Development (ACTD) provides for a suite of decision support tools capitalizing on emerging technology to enhance command and control of the Defense Transportation System (DTS). In concert with Joint Vision 2020, AT21 will focus on identifying, exploring, and fostering advanced synergistic technologies for transportation and sustainment processes with an 'end-to-end' systems perspective. AT21 will transition both COTS and GOTS maturing database, optimization and collaboration technologies into the Defense Transportation System (DTS) to improve peacetime and wartime transportation operations for all Combatant Commanders, Services, and governmental entities. Transportation mode determination and optimization for strategic lift will be based on objective, time-sensitive delivery criteria. The United States Transportation Command (USTRANSCOM) will have the ability to provide the supported CINC with modal alternatives to meet such deployment requirements as required delivery date in theater. Assignment to sealift of collaboratively selected, sealift-qualified, movement requirements will automatically increase availability of scarce airlift assets for assignment to true mission critical requirements. AT21 will produce a software toolsuite for synchronizing and optimizing all DTS operations through unit level execution. This effort will produce an immediate return on investment through better lift aggregation, cost avoidance by increased lift optimization and quality of life of the service members, due to better scheduling. Additionally, this effort will support the Combatant Commanders with improved, rapid, and collaborative transportation planning to support any force deployment.

This program is in Budget Activity 3, Advanced Technology Development, since it develops and demonstrates cost-effective technologies to improve the design, performance, and support of current and future weapon systems.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Continue development of Strategic Transportation Planner (STP) to support optimization, mode determination broker and scheduler.	1.720	1.500		
(U) Continue development of Aircrew Scheduler, Airbase Tactical Transportation Planner, and Aircraft Maintenance Scheduler to support the tactical echelon for optimization of assets.	2.912	1.685		
(U) Continue development of deep Collaboration in phases with Air Mobility Command (AMC), Military Traffic Mobility Command (MTMC), Military Sealift Command (MSC), Joint Forces Command (JFCOM), Pacific command (PACOM), and Central Command (CENTCOM).	0.902	0.800		
(U) Continue development of AMC Operational Transportation Planner to support the operational echelon for optimization of assets, mode determination and scheduler.	2.493	2.000		
(U) Total Cost	8.027	5.985	0.000	0.000

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CONTROL SYSTEM

PROJECT NUMBER AND TITLE

5085 Agile Transportation

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

	<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>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>Estimate</u>	<u>Complete</u>	

(U) PE 063750D8Z, DUSD
(AS&C)(U) PE 0603728D8Z, DUSD
(S&T)(U) PE 0604764K, DISA
(AITS/JPO)

(U) PE 41119F

(U) PE 41115F

(U) PE 0603772A (USA)

(U) **D. Acquisition Strategy**

Use spiral development, obtaining Indefinite Delivery and Indefinite Quantity contracts.