Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force

R-1 ITEM NOMENCLATURE

APPROPRIATION/BUDGET ACTIVITY
3600: Research, Development, Test & Evaluation, Air Force

PE 0207605F: Wargaming and Simulation Centers

DATE: February 2011

BA 7: Operational Systems Development

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	6.790	6.020	5.779	-	5.779	5.594	5.668	5.752	5.856	Continuing	Continuing
672888: Distributed Mission Operations Center (DMOC)	6.790	6.020	5.779	-	5.779	5.594	5.668	5.752	5.856	Continuing	Continuing

Note

The program funding includes reductions for Air Force efficiencies that are not intended to impact program content. The efficiencies reductions total \$.118M in FY12.

A. Mission Description and Budget Item Justification

The United States Air Force (USAF) Distributed Mission Operations Center (DMOC) is an Air Combat Command, USAF Warfare Center, 505th Command and Control Wing (505th CCW) organization. It provides joint interoperability training and testing to geographically separated Live, Virtual, and Constructive (LVC) assets--real-world weapon systems, operator-in-the-loop (OITL), and computer-driven simulations. Responsibilities include: development and integration of Distributed Mission Operations (DMO) training and test events, networks, scenarios, and databases in support of service, joint, and coalition warfighters. Activities also include studies and analysis to support both current program planning and execution and future program planning. DMOC is the lead integrator for Air Force DMO and virtual contributions to the Joint National Training Capability (JNTC). Additionally, DMOC is the lead agency for Virtual Flag (VF) exercises and the DMO Multi-Level Security (MLS)/Cross-Domain Solution (CDS) testbed. This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	7.018	6.020	5.897	-	5.897
Current President's Budget	6.790	6.020	5.779	-	5.779
Total Adjustments	-0.228	-	-0.118	-	-0.118
 Congressional General Reductions 		-			
Congressional Directed Reductions		-			
Congressional Rescissions	-	-			
Congressional Adds		-			
 Congressional Directed Transfers 		-			
Reprogrammings	-	_			
SBIR/STTR Transfer	-0.199	-			
Other Adjustments	-0.029	-	-0.118	-	-0.118

Change Summary Explanation

FY 2012: The program has been funded to latest cost estimate, less efficiencies. The reduction for efficiencies are not intended to impact program content. Amounts of the reductions are: \$.118M/FY12, \$.148M/FY13, \$.148M/FY14, \$.148M/FY15, \$.148M/FY16.

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DATE: February 2011

EXHIBIT N-ZA, NO FUE T FOJECT OUSTINGUION: 1 D 2012 All 1 0100									DAIL. I CO	uary 2011	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					OMENCLAT 5F: Wargami	TURE ing and Simu	ulation	PROJECT 672888: Distributed Mission Operations Center (DMOC)			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
672888: Distributed Mission Operations Center (DMOC)	6.790	6.020	5.779	-	5.779	5.594	5.668	5.752	5.856	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

The program funding includes reductions for Air Force efficiencies that are not intended to impact program content. The efficiencies reductions total \$.118M in FY12

A. Mission Description and Budget Item Justification

Fxhibit R-2A RDT&F Project Justification: PR 2012 Air Force

The United States Air Force (USAF) Distributed Mission Operations Center (DMOC) is an Air Combat Command, USAF Warfare Center, 505th Command and Control Wing (505th CCW) organization. It provides joint interoperability training and testing to geographically separated Live, Virtual, and Constructive (LVC) assets--real-world weapon systems, operator-in-the-loop (OITL), and computer-driven simulations. Responsibilities include: development and integration of Distributed Mission Operations (DMO) training and test events, networks, scenarios, and databases in support of service, joint, and coalition warfighters. Activities also include studies and analysis to support both current program planning and execution and future program planning. DMOC is the lead integrator for Air Force DMO and virtual contributions to the Joint National Training Capability (JNTC). Additionally, DMOC is the lead agency for Virtual Flag (VF) exercises and the DMO Multi-Level Security (MLS)/Cross-Domain Solution (CDS) testbed. This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2012	FY 2012
	FY 2010	FY 2011	Base	oco	Total
Title: Mission Rehearsal	4.328	3.100	3.670	-	3.670
Description: Continue to maintain core structure to support users conducting RDT&E, mission rehearsal, and concepts of operation development					
FY 2010 Accomplishments: Developed Next Generation Threat System (NGTS) core architecture to improve system performance and create sustainable baseline. Develop Combat Air Force (CAF) DMO, Joint, and International (Modeling and Simulation) M&S standards. Develop Combat Survivor Evader Locator for integration into VF. Develop other capabilities to integrate systems into VF and monitor system performance.					
FY 2011 Plans: Will develop Red and Blue Air simulations and integrate ISR and Combat Air Support (CAS) simulators.					
FY 2012 Base Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force		DATE: February 2011							
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force	R-1 ITEM NOMENCLATURE PE 0207605F: Wargaming and Simulation	·							
BA 7: Operational Systems Development	Centers	(DMOC)							
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total				
Continue to develop Red and Blue Air simulations and integrate ISI	R and Combat Air Support (CAS) simulators.								
FY 2012 OCO Plans:									
Title: V,V & A		0.676	1.215	1.177	-	1.177			
Description: Continue to support requirements definition, test support engineering support, and Verification, Validation, and Accreditation									
FY 2010 Accomplishments: Developed Next Generation Threat System (NGTS) core architectus sustainable baseline. Develop CAF DMO, Joint, and International Evader Locator for integration into VF. Develop other capabilities to system performance.	M&S standards. Develop Combat Survivor								
FY 2011 Plans: Will develop Red and Blue Air simulations and integrate ISR and C	AS simulators.								
FY 2012 Base Plans: Continue to develop Red and Blue Air simulations and integrate ISI	R and Combat Air Support (CAS) simulators.								
FY 2012 OCO Plans:									
Title: DMOC Ops		1.264	1.178	0.416	-	0.416			
Description: Communications connectivity between DMOC and vasimulation (M&S) facilities	arious other operational and modeling &								
FY 2010 Accomplishments: Developed Next Generation Threat System (NGTS) core architectus sustainable baseline. Develop CAF DMO, Joint, and International Evader Locator for integration into VF. Develop other capabilities to system performance.	M&S standards. Develop Combat Survivor								
FY 2011 Plans: Will develop Red and Blue Air simulations and integrate ISR and C	AS simulators.								
FY 2012 Base Plans:									

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DATE: February 2011

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	on 67	PROJECT 672888: Distributed Mission Operations Cente (DMOC)						
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total		
Continue to develop Red and Blue Air simulations and integrate ISR a	nd Combat Air Support (CAS) simulators.							
FY 2012 OCO Plans:								
Title: PMO Support		0.522	0.527	0.516	-	0.516		
Description: Program Management Office (PMO) support								
FY 2010 Accomplishments: Provided PMO support in the development of Next Generation Threat improve system performance and create sustainable baseline.	System (NGTS) core architecture to							
FY 2011 Plans: Will provide PMO support in the development of Red and Blue Air simulators.	ulations and integrate ISR and CAS							
FY 2012 Base Plans: Will provide PMO support in the development of Red and Blue Air simulators.	ulations and integrate ISR and CAS							
FY 2012 OCO Plans:								
Accomp	lishments/Planned Programs Subtotals	6.790	6.020	5.779	_	5.779		

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

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force

			<u>FY 2012</u>	<u>FY 2012</u>	<u>FY 2012</u>					Cost To	
<u>Line Item</u>	FY 2010	FY 2011	<u>Base</u>	OCO	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
• N/A:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

The Distributed Mission Operations Center supports AF DMO and the Joint National Training Capability (JNTC) by awarding full and open contracts that manage the acquisition, development, testing, and integration of DMO standards, training, model and simulation, multi-level security testbed, and exercises on Air Force and Joint DMO networks.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0207605F: Wargaming and Simulation

Centers

PROJECT

672888: Distributed Mission Operations Center

DATE: February 2011

(DMOC)

Product Development (\$ in Millions)			FY 2011		FY 2 Ba	2012 se		2012 CO	FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Mission Rehearsals/Concept of Operations (Brief/Debrief and Mission Replay tools, Rapid Scenario Generation, Next Generation Threat System (NGTS) Dev, DMO "Flag" events)	C/CPFF	Lockheed Martin:705 CTS, Kirtland AFB, NM	4.328	3.100	Oct 2010	3.670	Oct 2011	-		3.670	Continuing	Continuing	TBC
Verify, Validate, and Accredit Core Systems (Common Battlespace Architecture, DMO Standards, MLS/CDS)	C/CPFF	Lockheed Martin:705 CTS, Kirtland AFB, NM	0.676	1.215	Oct 2010	1.177	Oct 2011	-		1.177	Continuing	Continuing	TBD
Communications Connectivity (DMO Architecture, Joint National Training Capability (JNTC) Warfighter Capability, LVC and Information Operations (IO) Range Integration)	C/CPFF	Lockheed Martin:705 CTS, Kirtland AFB, NM	0.408	0.428	Oct 2010	0.416	Oct 2011	-		0.416	Continuing	Continuing	ТВС
		Subtotal	5.412	4.743		5.263		-		5.263			

Support (\$ in Millions)		FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical support for systems engineering and exercise operations	C/CPAF	Scientific Research:705 CTS, Kirtland AFB, NM	0.428	-		-		-		-	Continuing	Continuing	TBD
Tech support for systems engineering and exercise operations	C/CPFF	L-3 Comm Govt Svcs:705 CTS, Kirtland AFB, NM,	0.428	0.750	Apr 2011	-		-		-	Continuing	Continuing	TBD
		Subtotal	0.856	0.750		-		-		-			

Exhibit R-3, RDT&E Pro	ject Cost	Analysis: PB 2012 A	ir Force							DATE	E: Februar	y 2011			
3600: Research, Develop	APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force 3A 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0207605F: Wargaming and Simulation Centers						PROJECT 672888: Distributed Mission Operations Center (DMOC)			
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract		
		Subtotal	-	-		-		-		-	0.000	0.000	0.00		
Management Services (\$ in Millions)			FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total						
	Contract		Total Prior Years		Award		Award		Award		Cost To		Target		
Cost Category Item	Method & Type	Performing Activity & Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Complete	Total Cost			
Cost Category Item Program Management Office Support				Cost 0.527		Cost 0.516		Cost -	Date	Cost 0.516	Complete Continuing		Contract		
Program Management Office	& Type	Activity & Location 705 CTS:Kirtland AFB,	Cost		Date		Date	Cost -	Date		•		Contract		
Program Management Office	& Type	Activity & Location 705 CTS:Kirtland AFB, NM	Cost 0.522	0.527	Date Oct 2010	0.516	Date Oct 2011 012	-	012	0.516	•		Value of Contract TBI Target Value of Contract		

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force	DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
3600: Research, Development, Test & Evaluation, Air Force	PE 0207605F: Wargaming and Simulation	672888: Distributed Mission Operations Center
BA 7: Operational Systems Development	Centers	(DMOC)
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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force	DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0207605F: Wargaming and Simulation	672888: Dis	stributed Mission Operations Center
BA 7: Operational Systems Development	Centers	(DMOC)	

Schedule Details

Events	St	Start		End	
	Quarter	Year	Quarter	Year	
Multi-National Information Sharing (MNIS)	1	2010	4	2016	
Multi-Level Security (MLS)/Cross-Domain Solutions (CDS)	1	2010	4	2016	
DMOC Replay Tool	1	2010	4	2016	
Next Generation Threat System Dev	1	2010	4	2016	
Common Battlespace Architecture	1	2010	4	2016	
DMO Standards Development	1	2010	4	2016	
DMO "Flag" Events	1	2010	4	2016	
DMO Architecture OCONUS Expansion	1	2010	4	2016	
DMOC High Side Environment	1	2010	4	2016	
IO Range Integration	1	2010	4	2016	
LVC Range Integration	1	2010	4	2016	