DATE Exhibit R-2, RDT&E Budget Item Justification February 2005 BUDGET ACTIVITY PE NUMBER AND TITLE 03 Advanced Technology Development (ATD) 0804757F JOINT NATIONAL TRAINING CENTER FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Cost to Total Cost (\$ in Millions) Estimate Actual Estimate Estimate Estimate Estimate Estimate Estimate Complete Total Program Element (PE) Cost 2.913 0.000 0.000 Continuing **TBD** 2.827 0.0000.000 0.0000.000 2.827 2.913 0.000 0.000 0.000 0.000 TBD 5124 **Training Transformation** 0.000 0.000Continuing

In FY04 84757F, Joint National Training Capability, was a new PE and included new start efforts.

NOTE: This PE transfers to BA07 in FY06 and beyond. All FY06 and beyond funding is identified in the same PE84757F but in BA07.

(U) A. Mission Description and Budget Item Justification

Supports the SECDEF's Transformation in Training/Joint National Training Capability (JNTC). Develops capabilities that integrate live, virtual, and constructive elements into a seamless joint training environment. Using a scientific and phased approach, researches new technologies and methods that provide a crucial technology-based foundation supporting all JNTC operations. This program is in the Budget Activity 3, Advanced Technology Development, since it develops and demonstrates technologies for exhibiting new systems development that have military utility and address warfighter needs.

(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	2.915	2.939		
(U) Current PBR/Presid	ent's Budget	2.827	2.913		
(U) Total Adjustments		-0.088	-0.026		
(U) Congressional Prog	am Reductions		-0.026		
Congressional Resc	ssions				
Congressional Incre	ases				
Reprogrammings					

-0.088

SBIR/STTR Transfer
(U) Significant Program Changes:

R-1 Shopping List - Item No. 38-2 of 38-4

					22/10011 121						
		Exhibit R-2	a, RDT&E	Project J	ustificatio	on			DATE	February 2	2005
	T ACTIVITY vanced Technology Developme	nt (ATD)			080475	BER AND TITLE 7F JOINT N NG CENTEI	ATIONAL	•	OJECT NUMBE 24 Training	R AND TITLE Transformat	ion
	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
5124	Training Transformation	2.827	2.913	0.000	0.000	0.000	0.000	0.000	0.000		TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		
NOTE	: This PE transfers to BA07 in FY06	and beyond. A	All FY06 and	beyond fundir	ng is identified	l with the sam	e PE84757F b	out in BA07.			

(U) A. Mission Description and Budget Item Justification

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

Supports the SECDEF's Transformation in Training/Joint National Training Capability (JNTC). Develops capabilities that integrate live, virtual, and constructive elements into a seamless joint training environment. Using a scientific and phased approach, researches new technologies and methods that provide a crucial technology-based foundation supporting all JNTC operations. This program is in the Budget Activity 3, Advanced Technology Development, since it develops and demonstrates technologies for exhibiting new systems development that have military utility and address warfighter needs.

FY 2004

FY 2005

FY 2006

FY 2007

(U)	Begin Close Combat Tactical Tr	ainer Upgrades	s for Tactical A	Air Control Par	rty (TACP) Tra	aining	0.0	393	0.000		
(U)	Begin/Continue Air Force Mode	eling and Simul	ation Tool Kit	(AFMSTT) A	ir Warfare Sim	ulation	0.0	365	0.875		
	(AWSIM) Upgrades										
(U)	Begin/Continue Test & Evaluati	on Network Ar	chitecture (TE	ENA)			0.5	500	0.875		
(U)	Begin Tactical Air Data Info Li	nk (TADIL) Jo	int Fix (J Fix)				0.0)23	0.000		
(U)	Begin High Level Architecture ((HLA) Transfer	r				0.0)40	0.000		
(U)	Begin TADIL - J Link-16 Capal	oility					0.1	82	0.000		
(U)	Begin/Continue Theater Battle M	Management Co	ommunications	s System (TBM	ICS)		0.2	227	0.913		
(U)	Begin/Continue basic operating	support, systen	n acquisition, e	engineering sup	port and devel	opment	0.0)97	0.250		
	studies/efforts										
(U)	Total Cost						2.8	327	2.913	0.000	0.000
(U)	C. Other Program Funding Su	mmary (\$ in N	<u> (Iillions</u>								
		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to ,	<u>Γotal Cost</u>
		<u>Actual</u>	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete ⁻	rotar Cost
(U)	Related Activities:										
(U)	PE 0604735F, Combat	24.077	21.326							0.000	45.403
	Training Ranges RDT&E AF	21.077	21.320							0.000	13.103
	PE 0207429F, Combat										
(U)	Training Range Equipment	81.459	32.569							0.000	114.028
	OPAF										
(U)	PE 0804757F, Joint National	2.430	0.000							0.000	2.430
Pro	piect 5124			R-1 Shopp	oing List - Item No	o. 38-3 of 38-4				Exhibit R-2a (PE	E 0804757F)

	Exhibit R-2a, RDT	&E Project Justification	DATE February 2005
	OGET ACTIVITY Advanced Technology Development (ATD)	PE NUMBER AND TITLE 0804757F JOINT NATIONAL TRAINING CENTER	T NUMBER AND TITLE raining Transformation
(U)	C. Other Program Funding Summary (\$ in Millions) Training Center, OPAF		
(U)	D. Acquisition Strategy The acquisition strategy will be competitive, with cost plus fix	xed fee and firm fixed price contracts.	
Pro	oject 5124	R-1 Shopping List - Item No. 38-4 of 38-4	Exhibit R-2a (PE 0804757F)

PE NUMBER: 0804757F

PE TITLE: JOINT NATIONAL TRAINING CENTER

Exhibit R-2, RDT&E Budget Item Justification

February 2005

EX7.000C

DATE

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0804757F JOINT NATIONAL TRAINING CENTER

EX7.2004

EX7.2005

	p -											
Cost (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total	
	Cost (\$ iii Willions)		Estimate	Complete								
	Total Program Element (PE) Cost	0.000	0.000	2.924	3.060	3.052	3.151	3.224	3.279	0.000	0.000	
4567	Joint Modeling and Simulation System (JMASS)	0.000	0.000	2.924	3.060	3.052	3.151	3.224	3.279	0.000	0.000	

In FY04 84757F, Joint National Training Capability, was a new PE and included new start efforts.

FY06 includes new start efforts. NOTE: This PE is also in BA03 for FY04 and FY05 efforts and will move to BA07 for FY06 and out efforts.

(U) A. Mission Description and Budget Item Justification

Supports the SECDEF's Transformation in Training/Joint National Training Capability (JNTC). Develops capabilities that integrate live, virtual, and constructive elements into a seamless joint training environment. Using a scientific and phased approach, researches new technologies and methods that provide a crucial technology-based foundation supporting all JNTC operations.

This program is in budget activity 7- Operational Systems Development because it supports rapid transformation of Department of Defense training into a Joint National Training Capability.

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

	<u>F1 2004</u>	<u>F1 2003</u>	<u>F1 2000</u>	<u>F1 2007</u>
(U) Previous President's Budget			2.908	3.003
(U) Current PBR/President's Budget	0.000	0.000	2.924	3.060
(U) Total Adjustments	0.000	0.000		

(U) Congressional Program Reductions

Congressional Rescissions

Congressional Increases

Reprogrammings

SBIR/STTR Transfer

(U) Significant Program Changes:

R-1 Shopping List - Item No. 229-2 of 229-7

Exhibit R-2 (PE 0804757F)

EX7.2007

E	xhibit R-2	a, RDT&E	Project J	Justification	on			DATE	February :	2005
BUDGET ACTIVITY 07 Operational System Development				08047	IBER AND TITL 57F JOINT N IING CENTE	IATIONAL	450	OJECT NUMBE 67 Joint Mod stem (JMAS	R AND TITLE	
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
4567 Joint Modeling and Simulation System (JMASS)	0.000	0.000	2.924	3.060	3.052	3.151	3.224	3.279	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		
Supports the SECDEF's Transformation elements into a seamless joint training of technology-based foundation supporting This program is in budget activity 7- On National Training Capability.	environment. g all JNTC op	Using a scient erations.	tific and phase	ed approach,	researches nev	v technologies	and methods	that provide a	crucial	
 (U) B. Accomplishments/Planned Progra (U) Begin/Continue Air Force Modeling ar (AWSIM) Upgrades (FY04 and FY05) (U) Begin Multi-level security (Radiant Model) (U) Begin Concept of Operations for Space (U) Begin Command and Control, Intelliged development; terrain/visual/IR/SAR date (U) Total Cost 	efforts in BAG ercury) for Dis DMOC into a nce, Surveilla	Tool Kit (AFI 03 PE84757F) stributed Miss JNTC Live-Vi nce and Recor) ion Operation irtual-Constru nnaissance (C	n Center (DMo nctive events 2ISR) replay	OC)	FY 20 0.0		7. 2005 0.000	FY 2006 1.676 0.490 0.533 0.225	FY 2007 1.892 0.521 0.428 0.219 3.060
(U) <u>C. Other Program Funding Summar</u>	v (\$ in Million	18)								
FY	2004 FY	2005 F		Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost TBD
PE 0207429F, Combat (U) Training Range Equipment OPAF (FY04 & FY05 funding in BA03 PE 84757F)			15.824	15.606	20.314	20.483	20.762	2.203	Continuing	TBD
(U) PE 0804757F, Joint National Training Center, APAF			2.954	2.958	1.534	1.552	1.559	1.650	Continuing	TBD
(U) PE 0804757F, Joint National Training Center, OPAF			21.075	21.808	23.658	24.262	24.896	25.230	Continuing	TBD
Project 4567		F	R-1 Shopping Li	ist - Item No. 22	9-3 of 229-7				Exhibit R-2a (F	PE 0804757F)

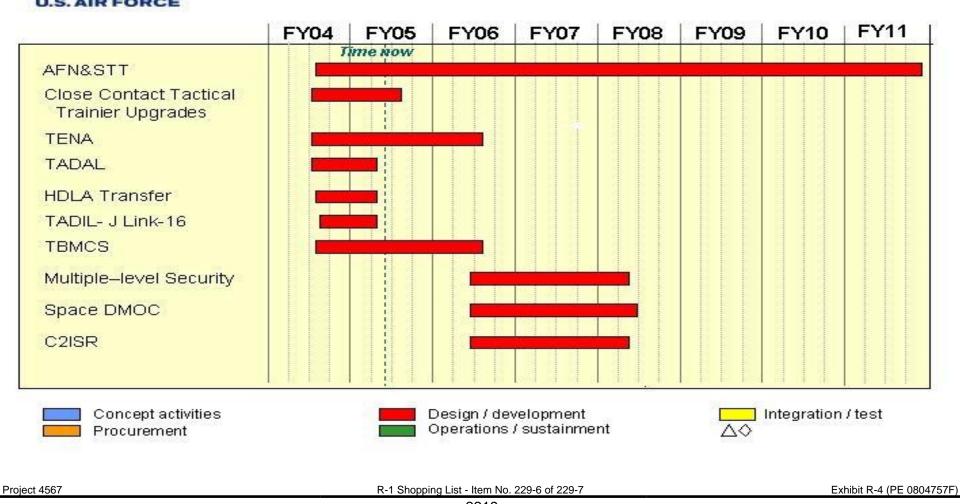
	Exhibit R-2a, RDT	RE Project Justification		DATE February 2005
	GET ACTIVITY Operational System Development	PE NUMBER AND TITLE 0804757F JOINT NATIONAL TRAINING CENTER	4567 J	T NUMBER AND TITLE oint Modeling and Simulation n (JMASS)
(U)	D. Acquisition Strategy The acquisition strategy will be competitive, with cost plus fixe	d fee and firm fixed price contracts.		
Pro	oject 4567	R-1 Shopping List - Item No. 229-4 of 229-7		Exhibit R-2a (PE 0804757F)

	Exhib	it R-3, RD	T&E Proj	ect Co	st Ana	lysis					DATE		uary 200	5
BUDGET ACTIVITY 07 Operational System Developmen	nt			PE NUMBER AND TITLE 0804757F JOINT NATIONAL TRAINING CENTER				PROJECT NUMBER AND TITLE 4567 Joint Modeling and Simulation System (JMASS)						
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete		Target Value of Contract
(U) Product Development AFMSTT		Northrup Grumman, McLean, VA	0.000	0.000				1.560	Jan-06	1.764	Jan-07	Continuing	TBD	
DMOC-S		SPARTA, Schreiver AFB, CO	0.000	0.000				0.503	Jan-06	0.428	Jan-07	Continuing	TBD	
DMOC (DTNG)		Northrup Grumman, McLean, VA	0.000	0.000				0.340	Mar-06	0.371	Mar-07	Continuing	TBD	
DMOC (DTNG)		Lockheed Martin Corp, Kirtland AFB, NM						0.150	Mar-06	0.150	Mar-07	Continuing	TBD	
C2ISR		Lockheed Martin Corp, Kirtland	0.000	0.000				0.255	Mar-06	0.219	Mar-07	Continuing	TBD	
Subtotal Product Development Remarks:		AFB, NM	0.000	0.000		0.000		2.808		2.932		Continuing	TBD	0.000
(U) Support AFMSTT		Northrup Grumman, McLean, VA	0.000					0.116	Mar-06	0.128	Mar-07	Continuing	TBD	
DMOC-S		Northrup Grumman, McLean, VA						0.000				Continuing	TBD	
Subtotal Support Remarks: (U) Test & Evaluation		, , ,	0.000	0.000		0.000		0.116		0.128		Continuing	TBD	0.000
Subtotal Test & Evaluation Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	0.000 0.000	0.000
(U) Management Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000 0.000	0.000
Remarks: (U) Total Cost			0.000	0.000		0.000		2.924		3.060		Continuing	TBD	0.000
Project 4567			R-1 Sh	opping List	t - Item No	o. 229-5 of 2	229-7					Exhibi	it R-3 (PE 08	04757F)

Exhibit R-4, RDT&E Schedule Profile BUDGET ACTIVITY 07 Operational System Development PE NUMBER AND TITLE 0804757F JOINT NATIONAL TRAINING CENTER DATE February 2005 PROJECT NUMBER AND TITLE 4567 Joint Modeling and Simulation System (JMASS)



Joint National Training Capability



TRAINING CENTER System (JMASS)	PENUMBER AND TITLE O804757F JOINT NATIONAL TRAINING CENTER PY 2005 PY 2006 PY 2007 PY 2007	ı	UNCLASSIFIED					
PE NUMBER AND TITLE PROJECT NUMBER AND TITLE 4567 Joint Modeling and Simulation System (JMASS)	PE NUMBER AND TITLE 1804757F JOINT NATIONAL TRAINING CENTER PROJECT NUMBER AND TITLE 4567 Joint Modeling and Simulation System (JMASS)	Exhibit R-4a, RDT&E Sch	nedule Detail					
(U) AFM&STT 3Q 2Q 2Q	AFM&STT		0804757F JOINT NATIO	ONAL	PROJECT NUMBER AND TIT 4567 Joint Modeling ar	LE		
(U) Multi-level Security (Radiant Mercury) 1Q 1Q 1Q 1Q 1Q 20 20 20 21 20 21 21 21 21 21 21 21 21 21 21 21 21 21		(U) AFM&STT (U) Close Contact Tactical Training Upgrades (U) TENA (U) TADIL (U) HLA Transfer (U) TADIL - J Link-16 (U) TBMCS (U) Basic Operating Support, System Acquisition, Engineering Support (U) Multi-level Security (Radiant Mercury) (U) Concept of Operations for Space DMOC-S	FY 2004 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 1Q	2Q 3Q 3Q 1Q	FY 2006 2Q 1Q 1Q 3Q	FY 2007 2Q 1Q 1Q 2Q 3Q		

R-1 Shopping List - Item No. 229-7 of 229-7 2220

Project 4567

Exhibit R-4a (PE 0804757F)