ARMY RDT&E BUD	OGET IT	EM JUS	TIFICA	TION (R	-2 Exhi	bit)		DATE Fe	bruary 19	999
BUDGET ACTIVITY 6 - Management and Support				UMBER AND 5712A	==	of Operat	ional Tes	sting		
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	74656	65460	68946	69038	71743	75872	76024	79899	Continuing	Continuing
DV02 Test Directorates	34158	40620	43202	44037	46540	48227	47870	49654	Continuing	Continuing
D001 OPTEC IOTE	19921	20041	19799	18954	18703	21010	20595	21922	Continuing	Continuing
D985 Concepts Evaluations of Materiel	15681	0	0	0	0	0	0	0	0	15681
D987 OPTEC Instrumentation & Development	4896	4799	5945	6047	6500	6635	7559	8323	Continuing	Continuing

A. <u>Mission Description and Budget Item Justification</u>: This program funds the operational testing of developmental materiel systems. Project DV02 provides for the recurring costs of operating the test activities of the U.S. Army Operational Test and Evaluation Command (OPTEC). Project D001 provides for direct operational and joint test costs incurred by OPTEC including Multi-Service, Army After Next (AAN), First Digitized Division and Automated Information Systems (AIS). Excludes funding for Acquisition Category I (ACAT I) major weapon and Automated Information Systems, which are programmed within the PE funding development for each system. Project D985 enables U.S. Army Training and Doctrine Command (TRADOC) battle labs and schools to evaluate emerging technologies and other equipment to help define Army mission needs and operational requirements. Projects selected for funding are relatively low cost conceptual evaluations, with high potential for warfighting return on investment. Program provides direct support to battle lab minor Advanced Warfighting Experiments (AWEs). Program is also a first look at emerging technologies that have the potential to support the Army's Force XXI design needs. Project D987 provides for development and acquisition of non-major and sustaining instrumentation necessary to attain and maintain the data collection and analysis capability to conduct credible and robust operational tests as demanded by the DoD and Congress. It provides for replacement and improvements of existing obsolete inventory and for the development of new technologies to keep abreast of new weapon advancements.

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Exhibit R-2 (PE 0605712A)

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ARMY RDT&E BUDGET	ITEM JUSTIF	ICATION (F	R-2 Exhibit)	DATE February 1999
BUDGET ACTIVITY 6 - Management and Support		PE NUMBER AND 0605712A	Support of C	esting	
B. Program Change Summary	FY 1998	FY 1999	FY 2000	<u>FY 2001</u>	
Previous President's Budget (FY 1999 PB)	76807	66320	64156	57651	
Appropriated Value	81672	66320			
Adjustments to Appropriated Value					
a. Congressional General Reductions	-4865	-860			
b. SBIR / STTR	-1617				
c. Omnibus or Other Above Threshold Reductions	-534				
d. Below Threshold Reprogramming					
e. Rescissions					
Adjustments to Budget Years Since FY 1999 PB			+4790	+11387	
Current Budget Submit (FY 2000 / 2001 PB)	74656	65460	68946	69038	

Change Summary Explanation:

Funding: FY 2000 funding was increased to correct a shortfall in Project D001 OPTEC IOTE to fund Multi-Service Joint Tests, including; Joint Warfighter, Joint Theater Distribution, Joint Close Air Support, Joint Shipboard Helicopter Integration Process, Joint Cruise Missile Defense, Joint Electronic Combat Test Using Simulation, Joint Suppression of Enemy Air Defense, Live Fire Exercise, and Joint Missile Alert Broadcast.

Funding: FY 2001 funding was increased to correct a shortfall in Project DV02 and a shortfall in Project D001 to fund Warfighters' Simulation 2000, Battlefield Combat Identification System, Airborne Reconnaissance Low, Tactical Unmanned System, Unmanned Aerial Vehicle Payloads and IEW Tactical Proficiency Trainer Directorates.

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Exhibit R-2 (PE 0605712A)

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	ARMY RDT&E BUD	GET ITE	EM JUST	FIFICAT	ION (R-	2A Exhi	bit)		DATE Fe	bruary 19	999
BUDGET ACTIVITY 6 - Manageme	ent and Support				UMBER AND	TITLE Support o	of Operat	ional Tes	sting		PROJECT
	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
DV02 Test Directora	tes	34158	40620	43202	44037	46540	48227	47870	49654	Continuing	Continuing
subordinate elemen Directorate, Fort Bl directorates located Concepts). The pri (FDTE). The FY 1 Activity (OTSA), T	Operational costs including 1 Operational costs including 2 Operational costs including 3 Operational costs including 4 Operational costs including 3 Operational costs including 9 Operational costs including 1	on Command torate, Fort S ose Combat; orates is to c er of manpow vity and othe propriation. 75 civilian au 8 civilian au 5 civilian au 8 civilian au 8 civilian au 8 civilian au	d (TEXCOM Sill, OK; and Engineer/Co conduct opera wer and fund er test suppor uthorizations thorizations a thorizations a thorizations a	I): Airborna the Intelligo ombat Support ational testin s for the Test for the Test t from the C at Fort Huac at Fort Sill, of at Fort Brag at Fort Bliss Operationa	e and Specia ence and Ele ort; Comman ag of develop st and Evalua DMA approp od, TX Test I OK Test Dirr huca, AZ Te g, NC Test I , TX Test Di I Threat Sup	l Operations ctronic Warf d, Control, a omental mate ation Coordin riation. Incre Directorates ectorate est Directorate rectorate port Activity	Test Directo fare Test Dir nd Commun riel and force hation Office ease in FY 1 (includes Te e	orate, Fort B rectorate, For nications; Inf ee developme es (TECOs), 999 complet sst and Evalu	ragg, NC; A rt Huachuca, Formation Mi ent test and e Operational tes the transf	ir Defense T AZ, and tes ission Area; experimentat Threat Supp er of manpo	est t Advanced ion port
FY 1999 Planned • 17033 • 2488 • 3162 • 2523 • 3171 • 10367 • 1557 • 319 Total 40620	Operational costs including 1 Operational costs including 2 Operational costs including 3 Operational costs including 4 Operational costs including 3 Operational costs including 1 Operational costs including 1 Small Business Innovation Re	8 civilian au 4 civilian au 0 civilian au 7 civilian au 8 civilian au 8 civilian au	thorizations a thorizations a thorizations a thorizations a thorizations a thorizations a	at Fort Sill, (at Fort Huac at Ft. Bragg, at Fort Bliss at Operation at Test and I	OK Test Dir huca, AZ Te NC Test Di , TX Test Di al Threat Su Evaluation C	ectorate est Directorat rectorate rectorate pport Activit oordination (e y, Fort Bliss Offices		ation Suppor	rt Activity)	
Project DV02				Page 3 of	15 Pages			Exhibi	t R-2A (PE	0605712A)	

	A	RMY RDT&E BUDGET ITEM JUSTIFI	CATION (R-2A Exhibit)		DATE February 19	99
BUDGET ACTIV			PE NUMBER AND TITLE			ROJECT
-		t and Support	0605712A Support of Operation	onal les	ting D	OV02
FY 2000 Pla		0		. 15 1		
	17892	Operational costs including 161 civilian authorizations at Fo		t and Evalua	tion Support Activity)	
	2604 3327	Operational costs including 28 civilian authorizations at For Operational costs including 34 civilian authorizations at For				
	2683	Operational costs including 40 civilian authorizations at For				
	3319	Operational costs including 40 civilian authorizations at For				
	11696	Operational costs including 18 civilian authorizations at Ope		ТХ		
	1681	Operational costs including 18 civilian authorizations at Tes				
	43202					
FY 2001 Pla	nned P	rogram:				
	18430	Operational costs including 161 civilian authorizations at Fo	rt Hood, TX Test Directorates (includes Tes	t and Evalua	tion Support Activity)	
•	2669	Operational costs including 28 civilian authorizations at For	t Sill, OK Test Directorate			
•	3383	Operational costs including 34 civilian authorizations at For				
	2718	Operational costs including 40 civilian authorizations at For				
	3364	Operational costs including 37 civilian authorizations at For				
	11748	Operational costs including 18 civilian authorizations at Ope		TX		
	1725	Operational costs including 18 civilian authorizations at Tes	t and Evaluation Coordination Offices			
Total ²	44037					
Project DV02	2	Pag	e 4 of 15 Pages	Exhibit	R-2A (PE 0605712A)	
			1292		(····································	Item 135

l l	ARMY RDT&E BUD	GET ITE	M JUS	FIFICAT	ION (R-	2A Exh	ibit)		DATE Fe	bruary 1	999
BUDGET ACTIVITY 6 - Managemei	nt and Support				UMBER AND		of Operat	ional Tes	sting		PROJECT D001
с	OST (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
D001 OPTEC IOTE		19921	20041	19799	18954	18703	21010	20595	21922	Continuing	Continuing
II-IV), including Mul It funds those costs d major and non-major conducted under cond leadership with an ind	ditions as close as possible to the dependent test and evaluation o), Joint Tests g early user g for ACAT lose encount	(JT), Army tests and eva I systems is ered in actua	After Next aluations (EU programmed ll combat wi	(AAN), Firs UTE), limite l within the l th typical us	t Digitized I d user tests (PE funding t er troops trai	Division (FD LUT), or ini he developm	D) and Auto tial operation tial of each s	mated Inform nal tests and system. Op	mation Syste evaluations erational tes	ems (AIS). (IOTE) on ting is
 2 54 23 2 2912 2327 715 5 10 465 80 3 20 320 1191 524 186 	 TYQ-69, CCS (IOTE) – AN/TYQ-69 Communication Control Set P3I BIDS (IOTE) – Pre-Planned Product Improvement, Biological Integrated Detection System FBCB2 (LUTE) – Force XXI Battle Command, Brigade and Below FBCB2 (IOTE) – Force XXI Battle Command, Brigade and Below LW (IOTE) - Land Warrior SEP 97-1 (IOTE) – SHORTSTOP Electronic Protection System CHATS (DT/OT) – Counter-Intelligence HUMINT Automated Tool Set BIDS P3I (LUT) – Biological Integrated Detection System Pre-Planned Product Improvement JWF (JT) - Joint Warfighter JECSIM (JT) – Joint Electronic Combat Test Using Simulation JADS ETE PH II (JT) – Joint Advanced Distributed Simulation Phase II JSEAD LIVEX 98 (JT) – Joint Suppression of Enemy Air Defense JCALS (IOTE) – Joint Computer-aided Acquisition and Logistic Support ECV (LUT) – Expanded Capability Vehicle LRAS3 ((IOTE) – Long Range Scout Surveillance System 										
Project D001				Page 5 of	15 Pages			Exhibi	t R-2A (PE	0605712A)	
				129	3						Item 135

BUDGET AC 6 - Man			UMBER AND TITLE 05712A Support of Operationa	Il Testing	PROJECT D001
FY 1998	Accompli	shments: (continued)			
•	65	SIRFC (DT/OT) - Suite Integrated Radio Frequency Countermeas	sures		
•	35	RSCCE (IOTE) - Replacement Satellite Configuration Control El	ement		
•	1	IVMMD (IOTE) – Interim Vehicle Mounted Mine Detector			
•	119	IFCS ESIT (LUT) - Improved Fire Control System Extended System	tem Integration Test		
•	2944	CCTT (IOTE) – Close Combat Tactical Trainer			
•	24	USL (IOTE) – Universal Static Line			
•	213	LADS (EU) – Laundry Advanced System			
•	62	HAB (IOTE) – Heavy Assault Bridge			
•	19	SSP (IOTE) – Strategic Sealift Program			
•	10	CSEL (IOTE) – Combat Survivor Evader Locator			
•	946	GBCS-LIGHT (IOTE) - Ground Based Common Sensor-Light			
•	77	AMPS (IOTE) – Aviation Mission Planning System			
•	47	UH-60Q (IOTE) – Utility Helicopter 60Q			
•	1	MDS (IOTE) – Modular Decontamination System			
•	70	JTT (IOTE) – Joint Tactical Terminal			
•	3	CBPS (IOTE) – Chemically and Biologically Protected Shelter			
•	645	MICAD PH II (IOTE) - Multipurpose Integrated Chemical Agent	Alarm, Phase II		
•	1	IMBC (LUT) – Improved Mortar Ballistic Computer			
•	379	NBCRS (LUT) - Nuclear, Biological and Chemical Reconnaissan	ce System		
•	509	ASV (IOTE) – Armored Security Vehicle			
•	46	CABS UH-60 (IOTE) – Cockpit Airbag System UH-60			
•	4	JSLIST ((IOTE) – Joint Service Lightweight Integrated Suit Tech			
•		ATNAVICS (DT/OT) – Air Traffic Navigation, Integration and C	•		
•	128	JCALS (LUT) – Joint Computer-aided Acquisition and Logistics			
•	21	ER-MLRS (IOTE) – Extended Range – Multiple Launch Rocket S	System		
•	1198	M270A1 (IOTE) – M270A1 Multiple Launch Rocket System			
•	222	SOFTACS/STAR-T (IOTE) – Special Operations Forces Tactical	Assured Connectivity System/SHF Tri-Ba	nd	
•	8	BFIST (XM7) (IOTE) – Bradley Fire Support Team (XM7)			
•	3	MACS (IOTE) – Modular Artillery Charge System			
•		UAV TCS (IOTE) – Unmanned Aerial Vehicle Tactical Control S			
•	2	CP LR-BSDS (IOTE) – Counterproliferation Long Range Biologi	cal Standoff Detection System		
•	2	JBPDS (IOTE) – Joint Biological Point Detection System			
Project D0	01	Page 6 of	15 Pages	Exhibit R-2A (PE 0605712/	4)

BUDGET AC		RMY RDT&E BUDGET ITEM JUSTIF	PE NUMBER AND TITLE		uary 1999
		nt and Support	0605712A Support of Oper	ational Testing	PROJECT D001
FY 1998	Accompli	shments: (continued)			
•		SEPS (IOTE) – Shortstop Electronic Protection System			
•	156	NAVWAR GPS (IOTE) - Navigation Warfare Global Po	sitioning System		
•	2	NTDR (IOTE) – Near Term Digital Radio			
•	176	GRCS SYS II (LUT) - Guardrail/Common Sensor System	n II		
•	1	JCAD (IOTE) – Joint Chemical Agent Detector			
•	1	JSLSCAD (IOTE) - Joint Services Lightweight Stand-off	f Chemical Agent Detector		
•	2	HDSB (IOTE) – Heavy Dry Support Bridge			
•	1	FF (EUTE) – Fire Finder AN/TPQ-39			
•	10	C130J (IOTE) – C130J Airdrop Qualification			
•	13	M270 ESIT (LUT) - M270A1 Multiple Launch Rocket S	ystem, Extended System Integration Test		
•	5	C2V (IOTE) - Command and Control Vehicle			
Total	19921				
FY 1999 H	Planned P	rogram:			
•	1973	FBCB2 (IOTE) – Force XXI Battle Command, Brigade at	nd Below		
•	231	C130 J (IOTE) – C130J Airdrop Qualification			
•	2077	LRAS3 (IOTE) - Long Range Advanced Scout Surveillar	nce System		
•	1156	PKG 11 - AFATDS (LUT) - Package 11 - Advanced Fie	eld Artillery Tactical Data System		
•	2651	SSP (IOTE) – Strategic Sealift Program			
•	1625	JWF (JT) – Joint Warfighter			
•	537	JTD (JT) – Joint Theater Distribution			
•	305	JCAS (JT) – Joint Close Air Support			
•	350	JSHIP (JT) – Joint Shipboard Helicopter Integration Proce	ess		
•	250	JECSIM (JT) - Joint Electronic Combat Test Using Simul			
•	2	JADS ETE PH IV (JT) – Joint Advanced Distributed Sim			
•	5	JADS ETE PH III (JT) – Joint Advanced Distributed Sim			
•	510	JSEAD LIVEX (JT) – Joint Suppression of Enemy Air De	efense, Live Fly Exercise		
•		JCSAR (JT) – Joint Combat Search and Rescue			
•		A2C2S (IOTE) - Army Airborne Command and Control	System		
•		AMPS (IOTE) – Aviation Mission Planning System			
•	614	ASV (IOTE) – Armored Security Vehicle			
•	81	SIRFC (DT/OT) – Suite Integrated Radio Frequency Cou	ntermeasures		
Project D0	01	p	age 7 of 15 Pages	Exhibit R-2A (PE 06	SO5712A)

	ŀ	ARMY RDT&E BUDGET ITEM JUSTIFIC	· ·	Febru	uary 1999
budget a 6 - Mar	-	nt and Support	PE NUMBER AND TITLE 0605712A Support of Operation	onal Testing	PROJEC ⁻ D001
FY 1999	Planned 1	Program: (continued)			
•		ATNAVICS (DT/OT) – Air Traffic Navigation, Integration a	and Coordination System		
•	64	LW (LUT) – Land Warrior			
•	78	JTAGS (DT/OT) – Joint Tactical Ground Station			
•	2133	ER-MRLS (IOTE) - Extended Range - Multiple Launch Row	cket System		
•	3053	M270A1 (IOTE) - M270A1 Multiple Launch Rocket System	l		
•	332	M270A1 MIFEX (LUT) - M270A1 Multiple Launch Rocket	System		
•	407	M270A1 ESIT (LUT) - M270A1 Multiple Launch Rocket Sy	ystem		
•	148	MACS (IOTE) – Modular Artillery Charge System			
•	531	Small Business Innovation Research/Small Business Techno	logy Transfer (SBIR/STTR) Programs		
Total	20041				
FY 2000	Planned P	rogram:			
•		SSP (IOTE) – Strategic Sealift Program			
•		FBCB2 (IOTE) – Force XXI Battle Command, Brigade and	Below		
•		ER-MLRS (IOTE) – Extended Range-Multiple Launch Rock			
•		M270A1 (IOTE) - M270A1 Multiple Launch Rocket System			
•	107				
•	163	CK (DT/OT) – Containerized Kitchen			
•	400	TC-AIMS-II (IOTE) - Transportation Coordinator's Automa	ted Information for Movement System II		
•		A2C2S (IOTE) - Army Airborne Command and Control Sys			
•	147	AMPS (IOTE) – Aviation Mission Planning System			
•	3426	SIRFC (IOTE) - Suite of Integrated Radio Frequency Count	ermeasures		
•	449	SIRFC (LUT) - Suite of Integrated Radio Frequency Counte	rmeasures		
•	1450	LW (LUT) – Land Warrior			
•	1425	JWF (JT) – Joint Warfighter			
•	570	JTD (JT) – Joint Theater Distribution			
•	605	JCAS (JT) – Joint Close Air Support			
•	650	JSHIP (JT) – Joint Shipboard Helicopter Integration Process			
•	10	JCMD (JT) – Joint Cruise Missile Defense			
•	2	JECSIM (JT) - Joint Electronic Combat Test Using Simulati	on		
•	510	JSEAD LIVEX (JT) – Joint Suppression of Enemy Air Defer	nse, Live Fly Exercise		
•	1000	JMABS (JT) – Joint Missile Alert Broadcast System	-		
Project D	001	Page	e 8 of 15 Pages	Exhibit R-2A (PE 060	05712A)

FY 2000 Planned Program: (ontinued) Total 19799 FY 2001 Planned Program: 3788 LW (UT) - GPS in a Joint Battlespace Environment 300 TC-AIMS-II (UT) - Guardrail/Common Sensor System II 300 TC-AIMS-II (UTT) - Transportation Coordinator's Automated Information for Movement System II 300 TC-AIMS-II (UTT) - Transportation Coordinator's Automated Information for Movement System II 300 TC-AIMS-II (UTT) - Diant Marighter 300 JWF (TT) - Joint Warighter 300 JWB (TT) - Joint Warighter 300 JCMD (TT) - Joint Marighter 300 JCMD (TT) - Joint Catise Missile Defense 301 JCMD (TT) - Joint Shipboard Helicopter Integration Process 302 GPS-JBE (TT) - GPS in a Joint Battlespace Environment 303 JCMD (TT) - Joint Craise Missile Defense 304 JTS (DT) - Joint Craise Missile Defense 305 NAVWAR GPS (IOTE) - Navigation Warfare Global Positioning System 400 ATPS (DTE) - Avanced Tactical Parachute System 325 WARS M12000 (UTD) - Warfighter's 'Simulation 2000 325 WARS M12000 (UTD) - Warfighter's 'Simulation 2000 326 ALL (UT) - Airborne Reconn	PROJECT D001
Total19799FY 2001 Planed Program:•3788LW (LUT) - Land Warrior•30GRCS SYS II (LUT) - Guardrail/Common Sensor System II•300CC-AIMS-II (IOTE) - Transportation Coordinator's Automated Information for Movement System II•232MEPS (IOTE) - Military Eye Protection System•230CSEL (IOTE) - Combat Survivor Evader Locator Excursion•3000JWF (JT) - Joint Warfighter•3000JWF (JT) - Joint Warfighter•3000JMABS (JT) - Joint Kinsile Alert Broadcast System•3000JKMD (JT) - Joint Cruise Missile Alert Broadcast System•3000JKMD (JT) - Joint Cruise Missile Alert Broadcast System•3001JSHIP (JT) - Joint Shipboard Helicopter Integration Process•3002GPS-IBE (JT) - GPS in a Joint Battlespace Environment•3005GSL (JT) - Joint Close Air Support•4195NAVWAR GPS (IOTE) - Navigation Warfare Global Positioning System•429BCIS (IOTE) - Advanced Tatical Parachute System•429BCIS (IOTE) - Battlefield Combat Identification System•500UAV PAYLOAD (LUT) - Ummanned Asystem•300UAV PAYLOAD (LUT) - IEW Tactical Proficiency Trainer•300IEWTPT (LUT) - IEW Tactical Proficiency Trainer•18954	
FY 2001 Planned Program: 0 GRCS SYS II (LUT) – Land Warrior 20 GRCS SYS II (LUT) – Guardrail/Common Sensor System II 300 TC-AIMS-II (IOTE) – Transportation Coordinator's Automated Information for Movement System II 21 MEPS (IOTE) – Military Eye Protection System 220 CSEL (IOTE) – Combat Survivor Evader Locator Excursion 3000 JWF (IT) – Joint Theater Distribution 1000 JMABS (IT) – Joint Missile Alert Broadcast System 200 ICMD (IT) – Joint Missile Defense 201 GRD (IT) – Joint Shipboard Helicopter Integration Process 202 GPS-IBE (IT) – GPS in a Joint Battlespace Environment 403 ATPS (IOTE) – Avarigation Warfare Global Positioning System 414 ATPS (IOTE) – Advanced Tactical Parachute System 429 ATPS (IOTE) – Advanced Tactical Parachute System 430 ATPS (IOTE) – Advanced Tactical Parachute System 431 ARL (LUT) – Airborne Reconnaissance Low 441 ARL (LUT) – Airborne Reconnaissance Low 530 ARL (LUT) – IeW Tactical Proficiency Trainer 541 IEWTPT (LUT) – IEW Tactical Proficiency Trainer 543 IEWTPT (LUT) – IEW Tactical Proficiency Trainer	
 3788 LW (LUT) – Land Warrior GRCS SYS II (LUT) – Caurdrail/Common Sensor System II 300 TC-AIMS-II (IOTE) – Transportation Coordinator's Automated Information for Movement System II 232 MEPS (IOTE) – Omibilitary Eye Protection System 250 CSEL (IOTE) – Combat Survivor Evader Locator Excursion 3000 JWF (JT) – Joint Warfighter 570 JTD (JT) – Joint Theater Distribution 1000 JMABS (JT) – Joint Tusie Alert Broadcast System 200 JCMD (JT) – Joint Cruise Missile Defense 650 JSHIP (JT) – Joint Shipboard Helicopter Integration Process 200 GPS-JBE (JT) – OfPS in a Joint Battlespace Environment 651 JCAS (JT) – Joint Close Air Support 1395 NAVWAR GPS (IOTE) – Navigation Warfare Global Positioning System 490 ATPS (IOTE) – Advanced Tactical Parachute System 2852 WARSIM 2000 (IOTE) – Warfighters' Simulation 2000 2859 BCIS (IOTE) – Battlefield Combat Identification System 510 ARL (LUT) – Jaintone Reconnaissance Low 68 TUS (LUT) – Jaintone Reconnaissance Low 68 TUS (LUT) – Jaint Close Air Support 200 UAV PAYLOAD (LUT) – Unmanned Aerial Vehicle Payloads 518 EWTPT (LUT) – IEW Tactical Proficiency Trainer Total 	
 3788 LW (LUT) – Land Warrior 0 GRCS SYS II (LUT) – Guardrail/Common Sensor System II 300 TC-AIMS-II (IOTE) – Transportation Coordinator's Automated Information for Movement System II 232 MEPS (IOTE) – Military Eye Protection System 250 CSEL (IOTE) – Combat Survivor Evader Locator Excursion 3000 JWF (JT) – Joint Warfighter 370 JTD (JT) – Joint Theater Distribution 1000 JMABS (JT) – Joint Missile Alern Broadcast System 200 JCMD (JT) – Joint Cruise Missile Defense 610 JSHIP (JT) – Joint Shipboard Helicopter Integration Process 200 GPS-JBE (JT) – GPS in a Joint Battlespace Environment 615 JSHIP (JT) – Joint Close Air Support 1395 NAVWAR GPS (IOTE) – Navigation Warfare Global Positioning System 2852 WARSIM 2000 (IOTE) – Warfighters' Simulation 2000 2599 BCIS (IOTE) – Advanced Tactical Parachute System 2852 WARSIM 2000 (IOTE) – Warfighters' Simulation 2000 2599 BCIS (IOTE) – Jattlefield Combat Identification System 488 TUS (LUT) – Airborne Reconnaissance Low 488 TUS (LUT) – Tactical Unmanned System 200 UAV PAYLOAD (LUT) – Unmanned Aerial Vehicle Payloads 5 IEWTPT (LUT) – IEW Tactical Proficiency Trainer Total 	
 300 TC-AIMS-II (IOTE) – Transportation Coordinator's Automated Information for Movement System II 212 MEPS (IOTE) – Military Eye Protection System 250 CSEL (IOTE) – Combat Survivor Evader Locator Excursion 3000 JWF (T) – Joint Theater Distribution 1000 JMABS (JT) – Joint Theater Distribution 1000 JMABS (JT) – Joint Missile Alert Broadcast System 200 JCMD (JT) – Joint Shipboard Helicopter Integration Process 200 GPS-JBE (JT) – GPS in a Joint Battlespace Environment 605 JCAS (JT) – Joint Close Air Support 1305 NAVWAR GPS (IOTE) – Navigation Warfare Global Positioning System 490 ATPS (IOTE) – Advanced Tactical Parachute System 202 WARSIM 2000 (IOTE) – Warfighters' Simulation 2000 2599 BCIS (IOTE) – Battlefield Combat Identification System 300 ARL (LUT) – Airborne Reconnaissance Low 68 TUS (LUT) – Tactical Ummanned System 200 UAV PAYLOAD (LUT) – Ummanned Aerial Vehicle Payloads 51 IEWTPT (LUT) – 1EW Tactical Proficiency Trainer Total 	
 MEPS (IOTE) – Military Eye Protection System CSEL (IOTE) – Combat Survivor Evader Locator Excursion 3000 JWF (JT) – Joint Warfighter TJD (JT) – Joint Theater Distribution I000 JMABS (JT) – Joint Missile Alert Broadcast System 200 JCMD (JT) – Joint Shipboard Helicopter Integration Process 200 GPS-JBE (JT) – GPS in a Joint Battlespace Environment 605 JCAS (JT) – Joint Close Air Support 1395 NAVWAR GPS (IOTE) – Navigation Warfare Global Positioning System 490 ATPS (IOTE) – Advanced Tactical Parachute System 2852 WARSIM 2000 (IOTE) – Warfighters' Simulation 2000 2599 BCIS (IOTE) – Battlefield Combat Identification System 530 ARL (LUT) – Airborne Reconnaissance Low 68 TUS (LUT) – Tactical Unmanned Aystem 200 UAV PAYLOAD (LUT) – Unmanned Aerial Vehicle Payloads 5 IEWTPT (LUT) – IEW Tactical Proficiency Trainer 	
 CSEL (IOTE) - Combat Survivor Evader Locator Excursion 3000 JWF (JT) - Joint Warfighter 570 JTD (JT) - Joint Theater Distribution 1000 JMABS (JT) - Joint Theater Distribution 200 JCMD (JT) - Joint Cruise Missile Defense 650 JSHIP (JT) - Joint Shipboard Helicopter Integration Process 200 GPS-JBE (JT) - GPS in a Joint Battlespace Environment 605 JCAS (JT) - Joint Close Air Support 1395 NAVWAR GPS (IOTE) - Navigation Warfare Global Positioning System 400 ATPS (IOTE) - Navigation Warfare Global Positioning System 490 ATPS (IOTE) - Navigation Warfare Global Positioning System 530 ARL (LUT) - Varfighters' Simulation 2000 2599 BCIS (IOTE) - Battlefield Combat Identification System 530 ARL (LUT) - Airborne Reconnaissance Low 631 TUS (LUT) - Airborne Reconnaissance Low 642 TUS (LUT) - Tactical Unmanned Astial Vehicle Payloads 54 	
 3000 JWF (JT) – Joint Warfighter 570 JTD (JT) – Joint Theater Distribution 1000 JMABS (JT) – Joint Missile Alert Broadcast System 200 JCMD (JT) – Joint Cruise Missile Defense 650 JSHIP (JT) – Joint Shipboard Helicopter Integration Process 200 GPS-JBE (JT) – GPS in a Joint Battlespace Environment 605 JCAS (JT) – Joint Close Air Support 1395 NAVWAR GPS (IOTE) – Navigation Warfare Global Positioning System 2852 WARSIM 2000 (IOTE) – Warfighters' Simulation 2000 2599 BCIS (IOTE) – Battlefield Combat Identification System 530 ARL (LUT) – Airborne Reconnaissance Low 68 TUS (LUT) – Tactical Unmanned Aerial Vehicle Payloads 5 IEWTPT (LUT) – IEW Tactical Proficiency Trainer Total 18954 	
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Total 18954	
Project D001 Page 9 of 15 Pages Exhibit R-24 (PE 0605	
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	712A) Item 1

	ŀ	ARMY RDT&E BUD	GET ITE		FIFICAT	TION (R-	2A Exh	ibit)		DATE Fe	bruary 19	999	
BUDGET AC		nt and Support				PE NUMBER AND TITLE 0605712A Support of Operational Tes					PROJECT Sting D985		
	С	OST (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 Cos	
D985 Con	cepts Evalu	ations of Materiel	15681	0	0	0	0	0	0	0	0	156	
experiment TRADOC I have the po major inves cover all as Beginning i	s to determ battle labs otential to s stment in i pects of co in FY1999	ging technologies, emerging we nine military utility or potentia build on initiatives with great support the Army's Force XXI nformation-age capabilities. Command and control, lethality, of funding restructured to PE 06	I to satisfy A est potential p design needs Constructive, survivability	rmy Doctrin payoff. Prog s. As the Arr virtual, and l , and tempo	e, Training, gram is also my moves to ive simulati and are esse	Leader Deve used as a fir oward Force ons are used ential to tech	elopment, Or st look at em XXI, the cri to examine nology inser	rganization, interging technical task of warfighting	Materiel and hologies and designing the concepts acro	Soldiers (D emerging w e force arous oss DTLOM	TLOMS) nee arfighting co nd informatic IS domains.	eds. ncepts that on require	
FY 1998 A •	ccomplisi 150	Ments: Voice-Data Repeater											
•	8	Digital Aircraft Weighing Sc	ale										
•	248	Manned and Unmanned Aer		Operations or	n the Digital	Battlefield							
•	33	Aviation Ground Recovery S											
•	77	Tele-Operation of the M1 Pa											
•	178	Teleops – D7G for Obstacle	Clearing										
•	51	Engineer C4I			<i>.</i> .								
•	110	Range Estimation with Seisn Smart Bridge	inc Sensors fo	n Early Dete	cuon								
•	194 85	Nonlethal Alternatives for A	nti_nerconnol	Landmines									
•	85 306	Operational Concept & Dem			r(C2TT)								
•	340	Crusader Operations on the I			(0211)								
•	199	Striker Acoustic Cueing Sen											
•	148	Training FS Skills with Infos		. GUARD F	IST								
•	98	Enhanced Fire Support Simu											
•	123	SOF Digital Fire Support Co											
	83	Voice Recognition Technolo	gy for AFAT	DS									
•													

budget activit [.] 6 - Manager	nent and Support	PE NUMBER AND TITLE 0605712A Support of	f Operational Testing	PROJECT D985
	••			
F Y 1998 Accor	nplishments: (continued) 90 3 Dimensional Night Vision Goggles (3D NVC	z)		
•	 90 5 Dimensional August Vision Goggles (5D AVC 92 Data Display Integration Technology Evaluation 			
	36 Dismounted Combat Identification Phase V	201		
• 1	 74 Small, Hands Free, Squad Radio for Restricted 	or Urban Terrain		
•	Signal Support for Force XXI TOC	or oroan remain		
	Warfighter Information Network Support for th	ne CSS C/I		
	40 Battlefield Video Teleconferencing (BVTC)			
	95 Information Protection (Intrusion/Detection)			
	Next Generation Semi-Autonomous Recon Ope	erations in the Divital Battlefield		
	Multi-Agent Fire Control System	erations in the Digital Dationera		
	40 Mounted Warrior Capability Assessment)			
•	Future Scout and Cavalry System Sensor Suite	Configuration		
•	Pen Based Law Enforcement Systems (PBLES)			
	85 Dynamically Distributed Overlays (DDO)	, ,		
	Joint Collaborative Target System (JCTS)			
•	80 Automated Intelligence Preparation of the Battl	lefield / Automated DS		
	05 USMC C3I Interoperability			
	Automated Commander's Critical Information	Requirements (AUTO CCIR)		
• 3	00 Small Lightweight Intercept Device (SLID)			
• 1	00 All Radiation Anti-Missile System			
• 3	00 SWORD Radar			
• 1	62 Rapid Optical Beam Steering System (ROBS)			
• 2	91 Course of Action War Gaming Tool			
• 2	33 Prototype ABCS Simulation Interface Support			
• 2	40 Tactical Class I Automation			
• 5	35 ICS3 Maintenance Model Embedded Training			
• 2	00 Forward Repair System – Heavy)			
• 2	40 Movement Tracking System + Radio Frequency	y ID + ICS3 (MRI-E)		
• 2	40 Wartime Usage of C/E Rechargeable Batteries			
• 1	70 Deployment Information Support System (DIS	S)		
• 1	36 Vehicle Integrated Mobile Electrical Power So	urce		
Project D985		Page 11 of 15 Pages	Exhibit R-2A (PE 06	2057124)

ARMY RDT&E BUDGET ITEM	I JUSTIFICATION (R-2A Exhib	Dit) DATE Februa	ary 1999
BUDGET ACTIVITY 6 - Management and Support	PE NUMBER AND TITLE 0605712A Support of	Operational Testing	PROJECT D985
	erimentation to examine Division level digital co S insights that will fuel Army investments in FY		oducts.
FY 1999 Planned Program: Program restructured to PE 0605326	А		
Y 2000 Planned Program: Program restructured to PE 0605326	A		
FY 2001 Planned Program: Program restructured to PE 0605326	A		
Project D985	Page 12 of 15 Pages	Exhibit R-2A (PE 0605	5712A)
	1300		Item

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							February 1999			
BUDGET ACTIVITY 6 - Management and Support				PE NUMBER AND TITLE 0605712A Support of Operational Tes				project D987		
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
D987 OPTEC Instrumentation & Development	4896	4799	5945	6047	6500	6635	7559	8323	Continuing	Continuir

collection, telemetry, and processing capability for support of robust and credible operational tests as required by the DoD and Congress. Increased sophistication of new weapon and communication and control systems demands the ability to capture test data at greater rates and increased volumes and then to reduce the information rapidly to only those essential to effectively evaluate the test. As digitization of the battlefield continues, this effort allows OPTEC to modernize and develop its non-major instrumentation allowing it to be less intrusive, more reliable and more robust in terms of integrating combat simulation capability into operational tests. The goal is to expand measurement and test control capability while still reducing future test costs. This project supports multiple efforts associated with MAIS and separate, independent initiatives that lead to improved command and control, increased mobility, expanded remote data collection at various tactical sites with transmit capability to central receiving, control, and evaluation stations at various test directorates, new instrumentation capability in support of Real-Time Casualty Assessment (RTCA) which measures simulated attrition of forces during simulated battlefield engagements. These directorates are located at Fort Hood, TX; Fort Bliss, TX; Fort Huachuca, AZ; Fort Sill, OK; and Fort Bragg, NC.

FY 1998 Accomplishments:

- 634 Video Telemetry and Recording System (Technical Insertion Performance Increase)
- 400 Multimedia Data Transfer System (Technical Insertion Performance Increase)
- 362 High-Speed Telemetry System (Quick Reaction in Support of Critical Operational Test)
- 300 Radio Frequency Monitoring System (Technical Insertion Performance Increase)
- 765 Telemetry System Upgrade (Product Improvement)
- 150 Command Audio / Visual Upgrade (Product Improvement)
- 500 Image System Upgrade (Product Improvement)
- 198 Test View and Visualization (Technical Insertion Performance Increase)
- 568 Improved Field Data Collector Enhancements (Product Improvement)
- 430 Simulation Support Modules (Technical Insertion Performance Increase)
- 125 Video Tracking System (Quick Reaction in Support of Critical Operational Test)
 - 325 Mobile Automated Instrumentation Suite (MAIS) After Action Review (Technical Insertion Performance Increase)
 - 39 Data Collection Vehicles (Product Improvement)
- 100 Improved Field Data Collector/Advanced Field Artillery Tactical Data System Interface (Quick Reaction in Support of Critical Operational Test)

Total 4896

Project D987

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Exhibit R-2A (PE 0605712A)

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	February 1999						
BUDGET ACTIVITY		PE NUMBER AND TITLE	PROJECT				
6 - Managen	nent and Support	0605712A Support of Operational Tes	ting D987				
FY 1999 Planne	8						
	20 Multimedia Data Transfer System (Technical Insertion – Pe						
• 53	e , , ,	· ·					
• 50							
• 29	11						
• 250	1 1	rovement)					
• 31							
• 10		· · · · · · · · · · · · · · · · · · ·					
• 12		ology Transfer (SBIR/STTR) Programs					
Total 479	99						
FY 2000 Planne	d Program:						
• 120	00 Improved Field Data Collector Enhancements (Technical In	sertion – Performance Increase)					
• 52	Multimedia Data Transfer System (Technical Insertion – Performance Increase)						
• 60	00 Common Data Transfer System (Technical Insertion – Perfe	Common Data Transfer System (Technical Insertion – Performance Increase)					
• 7		High Speed Telemetry System (Technical Insertion – Performance Increase)					
• 55	Video Telemetry Recording System (Technical Insertion – Performance Increase)						
• 22	Geometric Pointing System (Technical Insertion – Performance Increase)						
• 72		GPS Modernization (Technical Insertion – Performance Increase)					
• 2	18 Image Doc Upgrade (Technical Insertion – Performance In	crease)					
• 30	00 Video tracking System Modification (Product Improvement	Video tracking System Modification (Product Improvement – Performance Increase)					
• 85	50 Automated Intel/Electronic Warfare Test System (Product Intel/Electronic Warfare Test System)	mprovement)					
Total 594	45						
FY 2001 Planne	d Program:						
	00 Improved Field Data Collector Enhancements (Technical In	sertion – Performance Increase)					
• 2:	50 Multimedia Data Transfer System (Technical Insertion – Pe	rformance Increase)					
• 65	50 Common Data Transfer System (Technical Insertion – Perfo	ormance Increase)					
• 80	High Speed Telemetry System (Technical Insertion – Performance Increase)						
• 49	Mobile Integrated Non-Intrusive Command, Control and Communication Instrumentation (Technical Insertion – Performance Increase)						
• 3:	50 Geometric Pointing System (Technical Insertion – Performa	Geometric Pointing System (Technical Insertion – Performance Increase)					
• 40	00 Enhanced Telemetry and Display System (Product Improve	ment)					
• 32	25 Video Tracking System Modification in Service (Technical	Insertion – Performance Increase)					
Droiget D087	D	14 of 15 Dances					
Project D987	Page	e 14 of 15 Pages Exhibi	: R-2A (PE 0605712A)				
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	DATE February 1999			
BUDGET ACTIVITY 6 - Manageme	ent and Support	PE NUMBER AND TITLE 0605712A Support of Operational T		ROJECT 987
	Communication Assets (Technical Insertion – Performance Synthetic Jamming (Technical Insertion – Performance Incr Electro-Optics Facility Instrumentation (Technical Insertion Air Defense Artillery Test Directorate Player and Event Tra	nce Increase) Increase) ease) – Performance Increase)	rease)	
Project D987	Page	e 15 of 15 Pages Exh	bit R-2A (PE 0605712A)	1. 107
		1303		Item 135

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