RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)						DATE	DATE February 2003			
BUDGET ACTIVITY 06 - RDT&E Management Support			PE NUMBER AND TITLE 0605712F Initial Operational Test & Evaluation					PROJECT 0191		
COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
0191 Initial Operational Test & Eval	32,550	26,483	34,646	26,896	27,866	28,399	33,656	34,016	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(U) A. Mission Description

Initial Operational Test and Evaluation (IOT&E) is conducted to determine the operational effectiveness and suitability of systems undergoing research and development (R&D) efforts. It is an evaluation of a system's performance when the complete system is tested and evaluated against operational criteria by personnel with the same qualifications as those who will operate, maintain and support the system when deployed. In general, IOT&E is performed on new systems in development, major modifications and other systems as directed. This PE funds Congressionally mandated IOT&E to support major weapon system acquisition decisions beyond Low-Rate Initial Production (LRIP), Milestone C, full rate production, fielding, and declaration of Initial Operational Capability (IOC). For major systems designated for use in combat, the law requires IOT&E be completed under realistic field conditions before proceeding beyond Low Rate Initial Production.

IOT&E will be planned to completely and unambiguously answer all critical operational issues (COI) as thoroughly as possible. This PE funds the OT participation in Combined Developmental/Operational Test (DT)/OT, the Air Force participation in Multiservice Operational Test and Evaluation (MOT&E), and Follow-on Operational Test and Evaluation (FOT&E) when it is the continuation of IOT&E activities past the full rate production decision. FOT&E answers specific questions about unresolved COIs and test issues, or completes areas not finished during the IOT&E. This PE also funds related operational test and evaluation (OT&E) activities such as, Operational Utility Evaluations (OUE), Early Operational Assessments (EOA) and Operational Assessments (OA), and independent IOT&E which support major milestones and decision points prior to Milestone C, full rate production, fielding, or declaration of IOC. IOT&E programs are identified in several system categories: Air; Space; Weapons; Command, Control, Communications, Computers, and Intelligence (C4I); Combat Support; and Test Support. Air F

(U) FY 2002 (\$ in Thousands)

- (U) \$0 Accomplishments/Planned Program
- (U) \$15,355
- (U) Category: Air Systems. Planned, executed, and reported IOT&E activities, to include: Airborne Laser (ABL); Advanced Strategic & Tactical Infrared Expendable (ASTE); B-1B Conventional Mission Upgrade Program (CMUP) BLK E; B-1B CMUP BLK F; B-52 Avionics Midlife Improvement (AMI); C-17 Global Air Traffic Management (GATM); Compass Call; CV-22; F-15 Fiber Optic Towed Decoy (F-15 FOTD); F-16 Common Configuration Improvement Program (CCIP); F-22; Global Hawk High Altitude Endurance (HAE) UAV; Joint Helmet Mounted Cueing System (JHMCS); Joint Strike Fighter (JSF); Large Aircraft Infrared Countermeasures (LAIRCM); Mobile Approach Control

Project 0191 Pages Exhibit R-2 (PE 0605712F)

DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) February 2003 PE NUMBER AND TITLE BUDGET ACTIVITY **PROJECT** 06 - RDT&E Management Support 0605712F Initial Operational Test & Evaluation 0191 **(U)** A. Mission Description Continued FY 2002 (\$ in Thousands) Continued System (MACS); and other systems - ABL: Closed out Early Operational Assessments 2. Continued advanced planning. - ASTE: Conducted Phase III IOT&E and wrote final report. - B-1B CMUP Block E: Conducted DT/OT and OA. - B-1B CMUP Block F: Conducted DT/OT. Conducted detailed planning for IOT&E. - B-52 AMI: Conducted advanced planning for DT/OT and IOT&E. - C-17 GATM: Conducted DT/OT and OA. - Compass Call: Advanced planning for DT/OT. - CV-22: Conducted combined DT/OT. Completed detailed planning for OAs, combined DT/OT, IOT&E. - F-15 FOTD: Conducted advanced planning for combined OA and IOT&E. - F-16 CCIP: Conducted OA. - F-22: Continued detailed planning for IOT&E. - Global Hawk HAE UAV: Advanced Planning for OA and IOT&E and started combined DT/OT. - JHMCS: Completed IOT&E and wrote final report. - JSF: Advanced planning for IOT&E. - LAIRCM: Completed OA. Conducted advanced planning. -MACS: Conducted EOA and advanced planning. (U)\$2,181 (U) Category: Space Systems. Planned, executed, and reported IOT&E activities, to include: Advanced EHF Satellite Communications (Advanced EHF); Evolved Expendable Launch Vehicle (EELV); Global Broadcast System (GBS); Global Positioning Satellite (GPS); MILSTAR II; National Polar-Orbit Ops Environment Satellite System (NPOESS); Space Based Infrared System (SBIRS); Wideband Gap Filler System (WGS); and other systems. - Advanced EHF: Conducted advanced planning. - EELV: Conducted OA 2. - GBS: Conducted DT/OT, planned MOT&E. - GPS: Planned for OA1 and OA2 Page 2 of 11 Pages Project 0191 Exhibit R-2 (PE 0605712F

	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) DATE February 2003							
	GET ACTIVITY - RDT&E Manage	ement Support	PE NUMBER AND TITLE 0605712F Initial Operational Test & E	PROJECT O191				
(U)	A. Mission Descript	ion Continued						
(U)	FY 2002 (\$ in Thous	 ands) Continued MILSTAR II: Conducted incremental IOT&E. NPOESS: Planned, conducted, and reported OA. SBIRS: Wrote Increment 1 IOT&E final report. Co WGS: Planned and began execution for OA. 	onducted EOA and OUE.					
(U)	\$11,884	Reentry Vehicle (ICBM-SERV); Joint Air-to-Surface	oorted IOT&E activities, to include: AIM-9X Air-to-A Standoff Missile (JASSM); Joint Direct Attack Munitit Standoff Weapon BLU-108 (JSOW BLU-108); Joint	ion MK 83 (JDAM MK 83); Joint				
(U)	\$2,030	 AIM-9X: Conducted second phase of combined DT ICBM-SERV: Early Involvement. Developed Test JASSM: Conducted OA and combined DT/OT. Beg JDAM MK-82: Early Involvement. Developed Test JDAM MK-83: Conducted MOT&E. JSOW BLU-108: Advanced planning for OA and M JSOW BLU-97: Conducted Advanced Planning 	Options. gan IOT&E. st Options.					
	φ2,030	include: Air Operations Center as a Weapons System Action Planning and Execution System (DCAPES); I Terminals (FAB-T); Global Combat Support System Network 21 (GTN 21); Integrated Broadcast System (, Computers, and Intelligence (C4I). Planned, executed (AOC); Combined Air Operations Center Experimenta DOD National Airspace System (DOD NAS); Family of Air Force (GCSS AF); Ground Multi-band Terminal (CIBS); ICBM Minuteman MEECN Program (MMP); John (N_UWSS); N_UWSS-Air Mission Evolution (N_all Targeting (TCT) and other systems.	al (CAOC-X); Deliberate Crisis f Advanced Beyond Line Of Sight GMT); Global Transportation bint STARS Blk 30;				
		- AOC: Early Involvement. Test planning. (Includes- CAOC-X: Supported CTF	TBMCS and TCT)					
Р	roject 0191	Page	e 3 of 11 Pages	Exhibit R-2 (PE 0605712F)				

DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) February 2003 PE NUMBER AND TITLE BUDGET ACTIVITY **PROJECT** 06 - RDT&E Management Support 0605712F Initial Operational Test & Evaluation 0191 **(U)** A. Mission Description Continued FY 2002 (\$ in Thousands) Continued - DCAPES: Conducted Increment 1 OA. Participated in Increment 1 combined DT/OT. Test Planning - DOD NAS: Executed MOT&E - FAB-T: Planned for OA. - GCSS AF: Test planning. Participated in combined DT/OT. - GMT: Early involvement. Participated in combined DT/OT. - GTN 21: Early Involvement. Test planning. - IBS: Began OA. Test planning. - ICBM MMP: Conducted IOT&E. - Joint STARS Blk 30: Planned and participated in CTF, OUE. Wrote reports. - N_UWSS: Early Involvement. Planning in support of additional mission capabilities - N UWSS-AME: Planned and conducted DT/OT. (U)\$1,100 (U) Category: Combat Support. Plan, execute, and report IOT&E activities, to include: Common Aircraft Portable Re-Programming Equipment (CAPRE); Common Low Observable Verification System (CLOVerS); Combat Survivor Evader Locator (CSEL); Integrated Logistics System - Supply (ILS-S); Joint Computer Aided Acquisition and Logistics Support (JCALS); Joint Mission Planning System (JMPS); Joint Precision Approach & Landing system (JPALS); Joint Simulation System (JSIMS); Next Generation Small Loader (NGSL); Range Standardization Automation (RSA); and other systems. - CAPRE: Planned and Conducted IOT&E. - CLOVerS: Completed detailed planning and conducted OA. - CSEL: Planned, executed, and reported on OA. Detailed planning for MOT&E. - ILS-S: Participated in DT/OT. Advanced planning for IOT&E. - JCALS: Wrote final report on software package 3.1. Planned OA and MOT&E on Software package 3.3. - JMPS: Conducted EOA. Detailed planning for IOT&E. - JPALS: Planning for EOA. - JSIMS: Data collection and advanced planning for MOT&E. - NGSL: Executed IOT&E and wrote final report. - RSA: Conducted & reported phase II OA

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Project 0191

DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) February 2003 PE NUMBER AND TITLE BUDGET ACTIVITY **PROJECT** 06 - RDT&E Management Support 0605712F Initial Operational Test & Evaluation 0191 **(U)** A. Mission Description Continued (U)FY 2002 (\$ in Thousands) Continued (U) \$0 (U) Category: Test Support. Provide test capabilities insfrastructure to support OT. Joint Modeling and Simulation System (JMASS): Terminated Involvement. No future support needed. \$32,550 Total (U) FY 2003 (\$ in Thousands) (U) \$0 Accomplishments/Planned Program (U) \$16,729 (U) CATEGORY: AIR SYSTEMS. Plan, execute, and report IOT&E activities, to include: Airborne Laser (ABL); ALR-69 RWR Capability Improvement (ALR-69 RWR CI); B-1B Conventional Mission Upgrade Program (CMUP) BLK E; B-1B CMUP BLK F; B-52 Avionics Mid-Life Improvement (AMI); C-17 GATM; Compass Call; CV-22; F-15 Fiber Optic Towed Decoy (F-15 FOTD); F-16 Common Configuration Improvement Program (CCIP); F-22; Global Hawk High Altitude Vehicle (HAV) UAV; Large Aircraft IRCM (LAIRCM); Joint Strike Fighter (JSF); Mobile Approach Control System (MACS); and other systems. - F-22: Conduct IOT&E - ABL: Write OA plan; continue advance planning IOT&E. - ALR-69 RWR: Conduct IOT&E. - B-1B CMUP Block E: Complete final test report. - B-1B CMUP Block F: Detailed planning for IOT&E. - B-52 AMI: Plan and conduct IOT&E. - C-17 GATM: Conduct Block 14 IOT&E. - Compass Call: Advance planning for Blk 35 IOT&E. - CV-22: Plan for and conduct CV-22 IOT&E. - F-15 FOTD: Brief OA Results; advanced planning for IOT&E. - F-16 CCIP: Conduct IOT&E. - Global Hawk HAV UAV: Participation in real-world events; detailed planning for IOT&E. - JSF: Advanced planning for IOT&E. - LAIRCM: Plan and conduct IOT&E.

Exhibit R-2 (PE 0605712F)

Project 0191

	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) DATE February 2							
	get activity - RDT&E Management Su	pport	PE NUMBER AND TITLE 0605712F Initial Operation	onal Test & Evaluation	PROJECT 0191			
(U)	A. Mission Description Continu	<u>ed</u>						
(U)	FY 2003 (\$ in Thousands) Contin	<u>ued</u> Plan and conduct IOT&E.						
(U)	\$1,082 (U) CATEGORY: SPACE SYSTEMS. Plan, execute, and report IOT&E activities, to include: Advanced EHF Satellite Communications (Advanced EHF); Global Broadcast System (GBS); Global Positioning Satellite (GPS); MILSTAR II; National Polar-Orbit Ops Environment Satellite System (NPOESS); Space Based InfraRed System (SBIRS); Wideband Gap Filler System (WGS); and other systems. - Advanced EHF: Advance planning for IOT&E GBS: Plan and conduct FOT&E.							
	- GPS: Pla - MILSTA - NPOESS - SBIRS: 1	n and conduct OA2. R II: Complete MOT&E write Planning for OA2 and IOT&E	•	IP3 MOT&E.				
(U)			cute, and report IOT&E activities, to include: A tack Munition (JDAM) MK 82, Joint Stand-Off					
	- JASSM: - JDAM M - JSOW (B	Complete MOT&E and write fir Complete MOT&E and write fir K 82: Conducte combined DT/C LU-108): Complete MOT&E and	nal report. OT; advanced planning for IOT&E.					
(U)	(U) Catego Deliberate	Crisis Action Planning and Exec VTT); NORAD_USSPACECOM	nunications, Computers, and Intelligence (C4I). cution System (DCAPES); Integrated Broadcast M Warning Surveillance System (N_UWSS);	t System (IBS); Joint STARS Block	30; Joint Tactical			
	- DCAPES	: Complete Increment 2 IOT&E	3					
F	Project 0191		Page 6 of 11 Pages	Exhibit R-2	(PE 0605712F)			

	DATE February 2003					
	GET ACTIVITY - RDT&E Manage	ment Support	PE NUMBER AND TITLE 0605712F Initial Operational Test &	PROJECT		
(U)	A. Mission Description	on Continued				
(U)	FY 2003 (\$ in Thousa	nds) Continued - IBS: Complete OA and participate in CTF activir - Joint STARS Blk 30: Conduct OA and continue - JTT: Complete IOT&E - N_UWSS: Planning for OA and IOT&E TBM-CS: Complete MOT&E of version 2.0				
(U)	·					
	\$25.40Q	 CLOVeRS: Conduct IOT&E. CSEL: Plan and conduct FOT&E. ILS-S: Conduct CTF events. Advance Planning JCALS: Conduct SWP 3.3 OT. JMPS: Conduct IOT&E on release 1.0. JPALS: Participate in Combined DT/OT events; JTCTS: Detailed Planning for MOT&E. 				
(U) (U) (U) (U)	\$26,483 <u>FY 2004 (\$ in Thousa</u> \$0 \$24,340	Accomplishments/Planned Program (U) Category: Air Systems. Plan, execute, and re Receiver Capability Improvement (ALR-69 RWR Mission Upgrade Program (CMUP) BLK F; B-52.	port IOT&E activities, to include: Airborne Electronic A CI); Advanced Strategic and Tactical Infrared Expendabl Avionics Mid-Life Improvement (AMI); C-130X Aircraf ompass Call; CV-22; F-15 Fiber Optic Towed Decoy (F-1	e (ASTE); B-1B Conventional t Modernization Program (AMP);		
P	Project 0191	Configuration Improvement Program (CCIP); F-22	c; Global Hawk High Altitude Endurance (HAE) UAV; Joage 7 of 11 Pages			

DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) February 2003 PE NUMBER AND TITLE BUDGET ACTIVITY **PROJECT** 06 - RDT&E Management Support 0605712F Initial Operational Test & Evaluation 0191 **(U)** A. Mission Description Continued FY 2004 (\$ in Thousands) Continued Aircraft IRCM (LAIRCM); Mobile Approach Control System (MACS); MQ-9; Panoramic Night Vision Goggles (PNVG); Unmanned Combat Aerial Vehicle (UCAV); and other systems. - AEA: Early involvement. - ALR-69 RWR CI: Conduct IOT&E. - ASTE: Complete Transport Phase IOT&E and final report. - B-1B CMUP Block F: Complete IOT&E and write test report. - B-52 AMI: Plan and conduct IOT&E. - C-130X AMP: Conduct test planning. - C-17 GATM: Conduct Block 14 IOT&E - Compass Call: Conduct DT/OT on Block 35. - CV-22: Continue DT/OT and OA. Complete advanced planning for OAs, DT/OT and IOT&E. - F-15 FOTD: Conduct advanced planning. - F-16 CCIP: Conduct and report IOT&E. - F-22: Conduct IOT&E. - Global Hawk HAE UAV: Conduct OA and planning for IOT&E. - JSF: Advanced planning for IOT&E. - LAIRCM: Conduct and report IOT&E. - MACS: Complete OA and IOT&E and wrtie final report. - MQ-9: Participate in seamless verification of Pathfinder program. - PNVG: Conduct and report IOT&E. - UCAV: Participate in seamless verification of Pathfinder program. (U) \$2,752 (U) Category: Space Systems. Plan, execute, and report IOT&E activities, to include: Advanced EHF Satellite Communications (Advanced EHF); Global Broadcast System (GBS); Global Positioning Satellite (GPS); National Polar-Orbit Ops Environment Satellite System (NPOESS); Space Based Infrared System (SBIRS); Wideband Gap Filler System (WGS); and other systems - Advanced EHF: Advanced planning for IOT&E. Project 0191 Page 8 of 11 Pages Exhibit R-2 (PE 0605712F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) DATE Februar						
•	geт астіvітү - RDT&E Managen	nent Support	PE NUMBER AND TITLE 0605712F Initial Operational Test & E	PROJECT Evaluation 0191		
(U)	A. Mission Description	<u>Continued</u>				
(U)	- - -	ds) Continued GBS: Plan and conduct DT/OT. Plan for FOT&E. GPS: Plan and conduct OA2 and OA3. NPOESS: Conduct and report OA1. Plan for OA2 at SBIRS: Plan for Increment 2 OUE and IOT&E. WGS: Conduct DT/OT and plan for MOT&E.	nd IOT&E.			
(U)	\$2,829 (U) Category: Weapons. Plan, execute, and report IO Enhanced Reentry Vehicle (ICBM-SERV); Joint Air-to 2), Joint Direct Attack Munition MK 83(JDAM MK 8)	o-Surface Standoff Missile (JASSM); Joint Direct Att	· · · · · · · · · · · · · · · · · · ·		
(U)	- - -	AIM-9X: Conduct FOT&E ICBM-SERV: Test Planning. JASSM: Conduct test planning for JASSM-ER. JDAM MK-82: Test Planning. JDAM MK-83: Publish final report.				
	() A F F S	A) Category: Command, Control, Communications, Cair Operations Center as a Weapons System (AOC); Clanning and Execution System (DCAPES); Family of Force (GCSS AF); Ground Multi-band Terminal (GMTTARS Blk 30; NORAD_USSPACECOM Warfightin Time Critical Targeting (TCT) and other systems	Combined Air Operations Center Experimental (CAOC Advanced Beyond Line Of Sight Terminals (FAB T) (F); Global Transportation Network 21 (GTN 21); Inte	C-X); Deliberate Crisis Action ; Global Combat Support System Air grated Broadcast System (IBS); Joint		
	- - -	AOC: Test planning and Execution throughout spiral CAOC-X: Support CTF DCAPES: Conduct IOT&E and publish report. FAB T: Participate in combined DT/OT. Conduct OGCSS AF: Conduct IOT&E and publish report.				
L	Project 0191	Page	9 of 11 Pages	Exhibit R-2 (PE 0605712F)		

DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) February 2003 PE NUMBER AND TITLE BUDGET ACTIVITY **PROJECT** 06 - RDT&E Management Support 0605712F Initial Operational Test & Evaluation 0191 **(U)** A. Mission Description Continued FY 2004 (\$ in Thousands) Continued - GMT: Conduct IOT&E and publish final report. - GTN 21: Participate in combined DT/OT. Test planning. - IBS: Participate in combined DT/OT. Conduct MOT&E and publish report. - Joint STARS Blk 30: Plan and participate in CTF OUE and write report. - N_UWSS: Early Involvement. Planning in support of additional mission capabilities (U) \$1.805 (A) Category: Combat Support. Plan, execute, and report IOT&E activities, to include: Common Low Observable Verification System (CLOVeRS); Combat Survivor Evader Locator (CSEL); Integrated Logistics System - Supply (ILS-S); Joint Computer Aided Acquisition and Logistics Support (JCALS); Joint Mission Planning System (JMPS); Joint Precision Approach & Landing system (JPALS); Joint Tactical Combat Training System (JTCTS); and other systems - CLOVeRS: Conduct planning for IOT&E - CSEL: Plan and conduct FOT&E. - ILS-S: Conduct CTF events. Planning for IOT&E. - JCALS: Plan and conduct FOT&E. - JMPS: Conduct IOT&E on release 1.0. - JPALS: Participate in Combined DT/OT events; detailed planning for MOT&E. - JTCTS: Detailed Planning for MOT&E. \$34,646 Total **B. Budget Activity Justification** This program element is in Budget Activity 6, RDT&E Management Support, because it funds weapon system IOT&E tests conducted to evaluate a system's operational effectiveness and suitability and to identify any operational deficiencies or need for modifications in support of the acquisition process.

Exhibit R-2 (PE 0605712F

Project 0191

	RDT&E BUDGET ITEM JUSTIFICAT	ION SHEET (R	R-2 Exhib	oit)	DAT	[∈] February	y 2003
	ET ACTIVITY RDT&E Management Support	PE NUMBER AN 0605712F		erational Te	est & Eval	uation	PROJECT 0191
(U)	C. Program Change Summary (\$ in Thousands)						
(U) (U)	Previous President's Budget Appropriated Value		FY 2002 28,998 33,498	FY 2003 27,070 27,070	<u>FY 2</u> 27,5		<u>Total Cost</u> TBD
(U)	Adjustments to Appropriated Value a. Congressional/General Reductions b. Small Business Innovative Research		-409	-587			
	c. Omnibus or Other Above Threshold Reprogram d. Below Threshold Reprogram e. Rescissions		176 0				
(U) (U)	Adjustments to Budget Years Since FY 2003 PBR Current Budget Submit/FY 2004 PBR		-715 32,550	26,483	7,1 34,6		TBD
(U)	Significant Program Changes: FY02 Decrease in funding due to prior year updates and Supplemental FY03 Decrease in funding caused by Nonpay purchase inflation and C FY04 Increase in funding to meet IOT&E requirements					8109	
(U)	D. Other Program Funding Summary (\$ in Thousands)					~	
(U)	Actual Estimate Estimate	FY 2005 FY 2006 Estimate Estimate	FY 2007 Estimate		FY 2009 Estimate	Cost to Complete	Total Cost
	E. Acquisition Strategy N/A						
(U)	F. Schedule Profile	FY 2002		FY 200	_		<u>2004</u>
(U)	IOT&E is not an acquisition program.	1 2 3	4 1	2	3 4	1 2	3 4
Pi	roject 0191	Page 11 of 11 Pages				Exhibit R-2 (P	E 0605712F)