	ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit) DGET ACTIVITY - System Development and Demonstration PENUMBER AND TITLE 0604766A - Tactical Exploitation System/DCGS (TIARA)												
							ntion Syst	em/DCGS	S (TIARA	A)			
	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		
	Total Program Element (PE) Cost	59668	57255	19695	16	0	0	0	0	0	193820		
909	TACTICAL SURVEILLANCE SYSTEMS-ENG DE (TIARA)	V 0	1770	0	0	0	0	0	0	0	44176		
957	TACTICAL EXPLOITATION SYSTEM (TES)/DCGS-A (TIARA)	59668	55485	19695	16	0	0	0	0	0	149644		

A. Mission Description and Budget Item Justification: This project supports the engineering development/enhancement of the Tactical Exploitation System (TES), Division TES (DTES), TES Light Variant (TES-L), Distributed Common Ground Station-Army (DCGS-A). TES and DCGS-A will incorporate the standards and protocols dictated by the Common Imagery Ground/Surface System (CIG/SS) program. TES brings all of the Legacy Advanced Electronic Processing Dissemination System (AEPDS), Modernized Imagery Exploitation System (MIES) and Enhanced Tactical Radar Correlator (ETRAC) into an integrated common baseline that is downsized, modular and scaleable to meet a wide range of contingency requirements. TES interfaces with numerous satellite and aircraft tactical sensors and processes to exploit their data, imagery, and information. TES provides the commander with maximum flexibility to satisfy intelligence needs under a wide range of operational scenarios. TES operators can perform multiple imagery Intelligence (IMINT), Signal Intelligence (SIGINT), cross-intelligence, or dissemination functions from any workstation. TES provides extensive communication capabilities, including UHF, S,X,C and Ku radio frequency band communications. TES interfaces with and serves as the preprocessor for the All Source Analysis (ASAS), Common Ground Station (CGS), Guardrail Information Node (GRIFN), and the Digital Topographical Support System (DTSS). TENCAP Common Baseline addresses common subsystems, planned improvements, key activities and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems. DCGS-A will incorporate the capabilities of TES, Guardrail/Information Node (GR/FN), and Common Ground Station (CGS). TES and DCGS-A will incorporate emerging theater and national Intelligence, and Reconnaissance (ISR) capabilities. Specific details for TES are provided in the Tactical Intelligence and Related Activities (TIARA) Congressional Budget Justification Book and the Joint Military Intelligence Programs

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit) BUDGET ACTIVITY 5 - System Development and Demonstration PE NUMBER AND TITLE 0604766A - Tactical Exploitation System/DCGS (TIARA)

B. Program Change Summary	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	68205	56556	60183	49024
Current Budget (FY 2004/2005 PB)	59668	57255	19695	16
Total Adjustments	-8537	699	-40488	-49008
Congressional program reductions	-8000			
Congressional rescissions	-38			
Congressional increases		639		
Reprogrammings	-499	60		
SBIR/STTR Transfer				
Adjustments to Budget Years			-40488	-49008

Program Change Summary:

FY 2002 Funds realigned (\$8.0M) to Tactical Exploitation System (TES) procurement Congressional directed.

FY 2003 Received Congressional plus up of \$1.8M for Broadband Intelligence Training System (BITS)

FY 2004 Funds realigned (\$40,157M) to higher priority requirements.

FY 2005 Funds realigned (\$49,008M) to higher priority requirements.

R-4a Exhibit) PE NUMBER AND TITLE 0604766A - Tactical Exploitation S	February 2003 System/DCGS (TIARA)	PROJECT 0604766A

	ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	A Exhi	bit)	Fe	003		
	ACTIVITY em Development and Demonstration		(E NUMBER)604766A TIARA)			ition Syst	em/DCGS	8	PROJECT 957	
	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
957	TACTICAL EXPLOITATION SYSTEM (TES)/DCGS-A (TIARA)	59668	55485	19695	16	0	0	0	0	0	149644

A. Mission Description and Budget Item Justification: This project supports the engineering development/enhancement of the Tactical Exploitation System (TES), Division TES (DTES), and the related Distributed Common Ground Station-Army (DCGS-A) capability. TES brings a common inter-service capability together for the first time, enabling theater commanders to better use assigned ISR assets in support operations. TES interfaces with numerous satellite and aircraft tactical sensors and processes to exploit their data, imagery, and information. TES provides commanders with maximum flexibility to satisfy intelligence needs under a wide range of operational scenarios. TES operators can perform multiple imagery intelligence (IMINT), signal intelligence (SIGINT), cross-intelligence, or dissemination functions from any workstation. TES provides extensive communication capabilities, including UHF, S,X,C and Ku radio frequency band communications. TES interfaces with and serves as the preprocessor for the All Source Analysis (ASAS), Common Ground Station (CGS), and the Digital Topographical Support System (DTSS). TES incorporates the standards and protocols dictated by the Common Imagery Ground/Surface System (CIG/SS) program. TES brings all of the existing and emerging capabilities of the Advanced Electronic Processing Dissemination System (AEPDS), Modernized Imagery Exploitation System (MIES) and Enhanced Tactical Radar Correlator (ETRAC) into an integrated common baseline that is downsized, modular and scaleable to meet a wide range of contingency requirements. DCGS-A should incorporate the capabilities of TES, Guardrail/Information Node (GR/IFN), and Common Ground Station (CGS). TES and DCGS-A should to continue to incorporate emerging theater and national intelligence, surveillance, and reconnaissance (ISR) capabilities. These systems support the Legacy to Objective transition path of the Transformation Campaign Plan. CIG/SS portion of TES are funded under 0305208A. Specific details are provided in the Tactical Intel

ASPO program management support costs for these efforts are funded under PE 0603766 Project 907 in FY02 and out.

ASPO was provided Defense Emergency Response Fund (DERF) supplemental funding as a non-add, for FY02 in the amount of \$6.0M to improve and procure 400 Grenadier BRAT Blue Force Tracking systems for fielding to units directly supporting Operation Enduring Freedom.

ARMY RDT&E BUDGET ITEM JUST	IFICATION (R-2A Exhibit)		Februa	ry 2003	
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604766A - Tactical Exploitation (TIARA)	System/D(CGS	PROJE 957	ECT
Accomplishments/Planned Program		FY 2002	FY 2003	FY 2004	FY 2005
Completed engineering development of TES #3 Forward and Main, including integration DE, CIP, and MIST) and the purchase and integration of COTs/GOTs GFE. This effort		9572	0	0	0
Intiated engineering development of TES #5, including integration of existing reusable integration of COTs/GOTs GFE. (NOTE: Post rebaselining zeroed initiative)	components (i.e. MIDAS) and the purchase and	2691	0	0	0
Initiated engineering development of TES #6 Forward (-), including integration of exist purchase and integration of COTs/GOTs GFE. (NOTE: Post rebaselining zeroed initial		4876	0	0	0
TES-Light variant development. (NOTE: Post rebaselining zeroed initiative.)		2306	0	0	0
TES Forward and MAIN Interop and Upgrade Spirals. Starting in FY-04 covered under	er PE 0305208 Project 956.	10626	11250	0	0
Objective Architecture Software Spirals - Development Engineering Builds.		9501	6749	0	0
Field Motivated Fixes, Baseline Builds, and Configuration Control Board. Starting in Project 956.	FY 04 funding supplemented within PE 0305208,	0	5071	5768	16
DTES Production and Interop and Upgrade Spirals. Starting in FY-04 covered under F	PE 0305208 Project 956.	0	10136	0	0
Advance Planning and Engineering for Future Requirements and Studies to include DC and National Imagery projects.	CGS transformation, Future Combat Systems (FCS),	0	4311	2327	0
Continued TES/DCGS-A development through Army Topographic Engineering Cente	r (TEC) and FFRDC (Aerospace).	3746	3346	3465	0
System Engineering and Technical Assistance, IPT Participation across programs and	Services, Roadmaps, and DCGS Transformation	0	7053	6234	0
Plans. Ensures Interoperability across the Services and other programs for evolving Sensors, Multilevel Security Engineering Efforts.	data links, platform integration, COMMS, and	11850	7130	1901	0
SAIP prototype single vehicle development, fielding, integration, and evaluation. Star Project 956 and in FY-04 covered in PE 0305208 Project 056.	ting in FY-03 shared coverage with PE 0305208	4500	439	0	0
Totals		59668	55485	19695	16

ARMY RDT&E BUDGET	RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit) February 2003											
BUDGET ACTIVITY 5 - System Development and Demonstration					TLE tical Exp	loitation	System/I	OCGS	PROJE 957	.CT		
B. Other Program Funding Summary	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost		
PE 0603766A Project 907	16225	16107	17068	16079	15928	16544	17223	19841	Continuing	Continuing		
PE 0604766A TENCAP Project 909 (TIARA)	0	1770	0	0	0	C	(0	0	1770		
PE 0305208A Project 956 (JMIP)	71836	44823	8306	18167	43471	42361	46342	50380	Continuing	Continuing		
BZ7316 CIG/SS (JMIP)	2277	11303	2687	2654	6780	11514	10456	13551	Continuing	Continuing		
BZ7317 Tactical Surveillance System (TIARA)	34134	17100	C	0	0	C	(0	0	51234		

C. Acquisition Strategy: As pioneers in streamlined acquisition, ASPO's success in delivering systems as those described above to warfighters is directly attributed to an environment emphasizing space funding, low density acquisition, minimal use of MILSPECS, and managed competition. By tailoring existing technology, leveraging the best commercial practices and using commercial and government-off the shelf software, ASPO minimizes risk while maximizing efficiency and accelerated system production cycles. Government and contractor personnel and facilities accomplish dedicated cradle to grave Integrated Logistics Support (ILS) for all systems through a coordinated effort.

BUDGET ACTIVITY 5 - System Developmo	ent and Do	emonstration			umber ani 4766A - T		xploitatio	n System	n/DCGS (TIARA)	PROJEC 957	Т
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
a . TES #2 EDM *	SS/CPAF	Northrop Grumman, Linthicum, MD	2544	0		0		0		0	2544	254
b . TES #3 EDM *	SS/CPAF	Northrop Grumman, Linthicum, MD	18698	0		0		0		0	18698	18698
c . TES #4 EDM *	SS/CPAF	Northrop Grumman, Linthicum, MD	10626	0		0		0		0	10626	19000
d. TES DTES	SS/CPAF	Northrop Grumman, Linthicum, MD	7182	10136		0		0		0	17318	13208
e . Software upgrades and enhancements of TES baseline.	SS/CPAF	Northrop Grumman, Linthicum, MD	12192	11820	1Q	5768		16		0	29796	18947
f . SAIP Prototype	SS/CPAF	Northrop Grumman, Linthicum, MD	6860	439		0		0		0	7299	7520
g . TES joint interoperability with current and future sensors.	SS/CPAF	Northrop Grumman, Linthicum, MD	11850	7130	1Q	1901		0		0	20881	20850
h . TES Fwd and Main Sustainability/Interoperability Retrofits	SS/CPAF	Northrop Grumman, Linthicum, MD	0	11250	1Q	0		0		0	11250	(

ARMY RDT&E COST ANALYSIS(R-3) February 2003 PE NUMBER AND TITLE BUDGET ACTIVITY **PROJECT 5 - System Development and Demonstration** 0604766A - Tactical Exploitation System/DCGS (TIARA) 957 I. Product Development Contract Performing Activity & Total FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To Total Target PYs Cost Value of (continued) Method & Location Cost Award Cost Award Cost Award Complete Cost Contract Type Date Date Date i. Advance Planning, SS/CPAF Northrop Grumman, 0 11364 8561 0 19925 System Engineering, Future Linthicum, MD Requirements, Eng Transformation Plans 16 138337 69952 52139 16230 100767 Subtotal: Remarks: * Effort funded in project D909 prior to FY01. II. Support Cost Contract Performing Activity & Total FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To Total Target Method & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of Date Date Date Contract Type a . System Engineering N/A TEC, Alexandria, VA 2541 1741 10 1745 10 Continue Continue Continue (Government) b. Contractor C/FFP Northrop Grumman Info 700 350 20 350 20 Continue Continue Continue Tech/TASC c. FFRDC **OGA** Aerospace Corp, 1255 1255 1Q 1370 1Q Continue Continue Continue Chantilly, VA 3346 0 4496 3465 Continue Continue Continue Subtotal:

	AKM	Y RDT&E CO	751 AN						February 2003				
BUDGET ACTIVITY 5 - System Developm	ent and Do	emonstration			jmber ani 4766A - T	OTITLE 'actical E	xploitatio	n System	/DCGS (TIARA)	PROJEC 957	Т	
III. Test and Evaluation	Contract Met hod & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contra	
a . Not applicable			0	0		0		0		0	0		
Subtotal:			0	0		0		0		0	0		
Remarks: Not Applicable													
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac	
a . Not applicable	J 1		0	0		0		0		0	0		
Subtotal:			0	0		0		0		0	0	ı	
					·	·	·	·					
Remarks: Not Applicable													

Schedule Profile Det	tem Development and Demonstration 0604766A - Tactical Exploitation Syste								
BUDGET ACTIVITY 5 - System Development and Demonstration					oitation S	System/D	CGS (TI		ROJEC 957
Schedule Detail	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Complete development of TES Forward #1 and MAIN #1									
(Done Previous Years)									
Complete development of TES DTES #1 (Done Previous									
Years)									
Complete development of TES FWD #2 and MAIN #2 (Done									
Previous Years)									
Complete development of TES FWD #3 (Done Previous									
Years) Complete development of TES Main #3 (Done Previous									
•									
Years) Complete development of TES FWD #4*		2-3Q							
Complete development, upgrades, and fielding of DTES #s 2		3-4Q	2-4Q	1Q					
- 10		J-4Q	2-4Q	10					
Complete development of MAIN #4			20						