

PE NUMBER: 0604766A				UNCLASSIFIED																					
PE TITLE: Tactical Exploitation of National Capabilities (TENCAP) - Engineering & Manufacturing Development (TIARA)																									
RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)																									
								PROJECT																	
								D909																	
COST (In Thousands)		FY 1997 Actual	FY 1998 Estimate	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	Cost to Complete	Total Cost															
D909 Tactical Exploitation of National Capabilities - Eng Dev		14839	17807	44674	79740	56213	92231	77255	Continuing	Continuing															
<p>A. <u>Mission Description and Budget Item Justification:</u> This project supports the engineering development/enhancement of the Electronic Tactical User Terminal (ETUT), Mobile Integrated Tactical Terminal (MITT), Forward Area Support Terminal (FAST), Advanced Electronic Processing Dissemination System (AEPDS) and Tactical Exploitation System (TES). The Army's emerging TES will incorporate the standards and protocols dictated by the Common Imagery Ground/Surface System (CIG/SS) program. TES brings all of the existing and emerging Army TENCAP capabilities (AEPDS, MIES, and ETRAC) into an integrated common baseline; downsized, modular and scaleable to meet a wide range of contingency requirements. TENCAP Common Baseline addresses common subsystems, planned improvements, key activities and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems [including MIES and ETRAC that are funded under the Defense Airborne Reconnaissance Program (DARP) (PE 0305154D)]. Specific details are provided in the Tactical Intelligence and Related Activities (TIARA) Congressional Justification Book, Volume II and in the Army TENCAP Master Plan. This PE supports research efforts in the engineering and manufacturing development phases of the acquisition strategy and is therefore correctly placed in Budget Activity 5.</p> <p><u>Acquisition Strategy:</u> As pioneers in streamlined acquisition, ASPO's success in delivering systems as those described above to warfighters can be directly attributed to an environment emphasizing stable 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. Finally, dedicated cradle to grave Integrated Logistics Support (ILS) for TENCAP systems is accomplished through a coordinated effort by Government and contractor personnel and facilities.</p> <p>FY 1997 Accomplishments:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%; text-align: center;">•</td> <td style="width:10%; text-align: center;">4481</td> <td>Continued software upgrades and enhancements for the refinement of the TENCAP Common Baseline to fully exploit National capabilities such as integration of communications capabilities to meet changing architectures and implementation of software appliqué to provide the operational commander with enhanced battlefield intelligence products.</td> </tr> <tr> <td style="text-align: center;">•</td> <td style="text-align: center;">5106</td> <td>Continued engineering development of TES.</td> </tr> <tr> <td style="text-align: center;">•</td> <td style="text-align: center;">2343</td> <td>Completed effort to combine ETUT and EPDS capabilities into AEPDS.</td> </tr> <tr> <td style="text-align: center;">•</td> <td style="text-align: center;">2909</td> <td>Continued support to TENCAP program management and administrative activities [e.g. FFRDC (Aerospace), ARL support, ASPO support , Army Topographic Engineering Center (TEC) and Contractor SETA support].</td> </tr> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">14839</td> <td></td> </tr> </table>											•	4481	Continued software upgrades and enhancements for the refinement of the TENCAP Common Baseline to fully exploit National capabilities such as integration of communications capabilities to meet changing architectures and implementation of software appliqué to provide the operational commander with enhanced battlefield intelligence products.	•	5106	Continued engineering development of TES.	•	2343	Completed effort to combine ETUT and EPDS capabilities into AEPDS.	•	2909	Continued support to TENCAP program management and administrative activities [e.g. FFRDC (Aerospace), ARL support, ASPO support , Army Topographic Engineering Center (TEC) and Contractor SETA support].	Total	14839	
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Total	14839																								
Project D909			Page 1 of 4 Pages				Exhibit R-2 (PE 0604766A)																		
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

PROJECT
D909

FY 1998 Planned Program:

- 6965 Continue software upgrades and enhancements for the refinement of the TENCAP Common Baseline to fully exploit National capabilities such as integration of communications capabilities to meet changing architectures and implementation of software appliqué to provide the operational commander with enhanced battlefield intelligence products. In addition to staying current with National and Theater capabilities, will include integration of Global Broadcast System (GBS) and the Joint Tactical Terminal (JTT) into the TENCAP systems.
 - 8640 Continue engineering development of TES.
 - 1761 Continue support to TENCAP program management and administrative activities [e.g. FFRDC (Aerospace), ARL support, ASPO support , Army Topographic Engineering Center (TEC) and Contractor SETA support].
 - 441 Small Business Innovative Research/Small Business Technology Transfer Programs.
- Total 17807

FY 1999 Planned Program:

- 19951 Continue software upgrades and enhancements for the refinement of the TENCAP Common Baseline to fully exploit National capabilities such as integration of communications capabilities to meet changing architectures and implementation of software appliqué to provide the operational commander with enhanced battlefield intelligence products. In addition to staying current with National and Theater capabilities, will include integration of Global Broadcast System (GBS) and the Joint Tactical Terminal (JTT) into the TENCAP systems.
 - 18379 Continue engineering development of TES.
 - 6344 Continue support to TENCAP program management and administrative activities (e.g. FFRDC (Aerospace), ARL support, ASPO support , Army Topographic Engineering Center (TEC) and Contractor SETA support).
- Total 44674

B. Project Change Summary

	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>
FY 1998/1999 President's Budget	15235	19113	19531
Appropriated Value	14869	19113	
Adjustments to Appropriated Value	-30	-1306	
FY 1999 President's Budget	14839	17807	44674

Change Summary Explanation: FY 1999 increase (+25143) All efforts previously funded under 6063766A/project 909 were consolidated into this PE/project.

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

PROJECT
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C. <u>Other Program Funding Summary</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>To Compl</u>	<u>Total Cost</u>
RDTE,A Budget Activity 4									
PE0603766,A Project D907 TENCAP – Adv Dev	24714	19566	0	0	0	0	0	0	0
RDTE,D Budget Activity 7									
PE 0305154D, Project P531 DARP	49395	0	0	0	0	0	0	0	0
PE 0305208D, Project PD8Z DARP	0	30377	29924	23558	24768	24216	23837	Cont	Cont
Other Procurement Army, OPA-2									
BZ7315 TENCAP	1818	1679	1690	4460	13225	14204	16101	Cont	Cont
Procurement, Defense Wide									
PE 0305154D DARP	89945	0	0	0	0	0	0	0	0
PE 0305208D DARP	0	94070	75857	74281	64267	65468	66678	Cont	Cont

D. <u>Schedule Profile</u>	<u>FY 1997</u>			<u>FY 1998</u>				<u>FY 1999</u>					
	1	2	3	4	1	2	3	4	1	2	3	4	
Complete and Field DAMA Applique into SUCCESS Radios													X
Complete Development and fielded AEPDS				X*									
Initiate integration of GBS into AEPDS and TES													X
Initiate migration of JTT into AEPDS and TES													X
Complete integration of GBS into AEPDS and TES													X
Complete Prototype Development of TES- Forward													X
Complete integration of DSN/DMS into TENCAP Systems													X

DATE

BUDGET ACTIVITY

PE NUMBER AND TITLE

* Denotes completed milestones

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)

PROJECT
D909

<u>A. Project Cost Breakdown</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>
AEPDS	2343	0	0
TES	5106	8640	18379
Common Baseline (*1)	4481	6965	19951
FFRDC	1220	1274	1403
Systems Engineering (Contractor)	1689	487	1030
Systems Engineering (Government)	0	0	1500
ASPO In-house(*2)	0	0	2411
SBIR/STTR	0	441	0
Total	14839	17807	44674

(*1) TENCAP Common Baseline addresses common subsystems, planned improvements, key activities and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems [including MIES and ETRAC that are funded under the DARP (PE 0305154D)]

(*2) Approximately 40% of program management cost in FY 1997 through FY 1999 support efforts being developed under PE 0305154D.P531 and PE 0305308D.PD8Z.

B. Budget Acquisition History and Planning Information Not Applicable