PE NUMBER: 0604602F PE TITLE: Armament/Ordnance Development

EXNIK	oit R-2, RDT	&E Budget	t Item Justi	ification			DATE	February	2004
Exhibit R-2, RDT&E Budget Item Justification February 2004 BUDGET ACTIVITY PE NUMBER AND TITLE 05 System Development and Demonstration (SDD) 0604602F Armament/Ordnance Development									
Cost (\$ in Millions)									Total
· · · ·									
									T
									T
									T
Containers	0.135	0.136	0.142	0.145	0.151	0.153	0.166	Continuing	T
					• • •				
and armament control systems. Procurem Containers: This project funds the operati and duplication of munitions containers.	ent will be perfo ion of the tri-ser It also supports o r Packaging, Har	ormed and fund vice Container organic contain ndling, and Loa	led by the appli Design Retriev aer design, acqu ading.	cable weapons al System (CD isition transpo	s system project DRS). This main rtation, prototy	ntains a contain ping, testing cap	er database to pabilities, as w	preclude prolife vell as the Joint	eration Ordnance
and armament control systems. Procurem Containers: This project funds the operati and duplication of munitions containers. I Commander's Working Group (JOCG) for This program is in Budget Activity 5 - Sys	ent will be perfo ion of the tri-ser It also supports o r Packaging, Har	ormed and fund vice Container organic contain ndling, and Loa ent and Demon	led by the appli Design Retriev er design, acqu ading. stration becaus	cable weapons ral System (CD isition transpo e the projects s	s system project DRS). This mai rtation, prototy support the SDI	ntains a contain ping, testing cap	er database to pabilities, as w	preclude prolifo vell as the Joint related items and	eration Ordnance 1
and armament control systems. Procurem Containers: This project funds the operati and duplication of munitions containers. I Commander's Working Group (JOCG) for This program is in Budget Activity 5 - Systems	ent will be perfo ion of the tri-ser It also supports o r Packaging, Har	ormed and fund vice Container organic contain ndling, and Loa ent and Demon	led by the appli Design Retriev aer design, acqu ading.	cable weapons ral System (CD isition transpo e the projects s	s system project DRS). This mai rtation, prototy support the SDI	ntains a contain ping, testing cap	er database to pabilities, as w	preclude prolife vell as the Joint	eration Ordnance 1

	Exhibit R-2, RDT&E Budg	get Item Justification	DATE Februa	ary 2004
	GET ACTIVITY System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604602F Armament/Ordnance Develop	oment	
(U)	B. Program Change Summary (\$ in Millions)			
		<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U)	Previous President's Budget	8.939	8.419	8.734
(U)	Current PBR/President's Budget	8.530	8.347	8.353
(U)	Total Adjustments	-0.409	-0.072	
(U)	Congressional Program Reductions	0.000	0.000	
	Congressional Rescissions	0.000	-0.072	
	Congressional Increases	0.000	0.000	
	Reprogrammings	-0.147	0.000	
	SBIR/STTR Transfer	-0.262	0.000	
(U)	Significant Program Changes:			
	None			

R-1 Shopping List - Item No. 78-2 of 78-14

		Exhibit R-2	a, RDT&E Pro	oject Justi	fication			DATE	February	2004
	GET ACTIVITY ystem Development and Demo	nstration (SDD)			PE NUMBER AND 0604602F Arm Development		ance	PROJECT NUME 3133 Bombs		
	Cost (\$ in Millions)	FY 2003		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	Total
0100		Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
3133		1.2	245 6.973			3.690	0.933		Continuing	TBD
	Quantity of RDT&E Articles		0 0	0) 0	0	0	0		
(U)	<u>A. Mission Description and Budg</u> There are two subprojects in the Bo performance of the weapon by mate This project funds the integration o conventional weapons insensitive to	ombs and Fuzes pr ching the fuze sett f JPF on other AF	oject: (1) Joint P ing with the target legacy weapons.	selected. JPF (2) Insensitiv	was developed	primarily for JI	DAM and fund	led by the JDAN	M program (PE	0604618).
	This program is in Budget Activity functions.	5 - System Devel	opment and Demo	nstration (SDI	D) because the pr	rojects support	the SDD phas	e of several mu	nitions related i	tems and
U)	B. Accomplishments/Planned Prog	gram (\$ in Million	ns)				FY	7 2003	FY 2004	FY 2005
	Complete Hard Target Smart Fuze I			(DT&E)				1.776	0.000	0.000
· /	Support Hard Target Smart Fuze Op	1						0.269	0.000	0.000
· · ·	Continue Insensitive Munitions (IM) bomb case development performanc	-		1	nce tests, enviro	nmental tests,		5.200	0.000	0.000
(U)	Integrating the Joint Programmable	Fuze on legacy we	apons					0.000	0.940	0.486
(U)	Formulate IM explosive developmer	nt fill and integrate	the fuze on IM fi	lled bombs				0.000	2.697	0.858
	Conduct bomb case study and compa	arative testing						0.000	3.336	5.592
(U)	Total Cost							7.245	6.973	6.936
(U)	C. Other Program Funding Sumn	nary (\$ in Million	<u>s)</u>							
		FY 2003		FY 2005	FY 2006	FY 2007	<u>FY 2008</u>	<u>FY 2009</u>	Cost to	Tetal Cest
		Actual	Estimate	<u>Estimate</u>	Estimate	Estimate	Estimate	Estimate	Complete	<u>Total Cost</u>
	Procurement of Ammunition									
· ·	(AF), (PE 0208030F Joint Programmable Fuze)	2.750	5.143	11.447	34.744	44.899	44.169	43.291	Continuing	TBD
(U)	D. Acquisition Strategy Joint Programmable Fuze (JPF) acc perform specifications requirement for concept technology development	s for current and f	uture munitions us	ing the JPF. A	cquisition strate					
Proj	ect 3133		R-1 Sł	nopping List - Ite	em No. 78-3 of 78-1	4			Exhibit R-2a (PE 0604602F)

		Exhibit R-3, RI	DT&E Project Cost	Analysis	5					DATE	Februa	rv 200	94
BUDGET AG 05 Syste	CTIVITY m Development and Demon	stration (SDD)							IBER AND TIT		-		
(U) <u>Cost (</u>	Categories	Contract Metho	d Performing Activity &	Total	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	Cost to	Total	Target
(Tailo	or to WBS, or System/Item	<u>& Type</u>	Location	Prior to FY	2003	2003	2004	2004	2005	<u>2005</u>	<u>Complete</u>	Cost	Value of
Requi	irements)			<u>2003</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	Award	<u>Cost</u>	Award			Contract
(\$ in N	Millions)			<u>Cost</u>		<u>Date</u>		<u>Date</u>		Date			
(U) <u>Produ</u>	act Development												
Allian	nt (HTSF)	CPIF	Hopkins, MN	17.863	1.746	Aug-98	0.000	N/A	0.000	N/A	0.000	19.609	19.609
Air Fo	orce Research Lab/MN (IM)	In-house	Eglin AFB, FL	0.000	2.233	N/A	2.697	N/A	0.784	N/A	1.141	6.855	6.855
	ral Dynamics OTS (IM)	CPFF	Niceville, FL	0.000		May-03	0.5681	May-03		May-03		4.221	4.221
AAC/	/WMO	In-house	Eglin AFB, FL	0.000	0.180	N/A	0.000	N/A	0.000	N/A	0.000	0.180	0.180
Subto	otal Product Development			17.863	5.185		3.265		2.639		1.913	30.865	30.865
Rema	arks: AAC/WMO is part of the I	Program Office. CPI	F = Cost Plus Insentive Fe	e; CPFF = C	Cost Plus	Fixed Fe	ee						
(U) <u>Suppo</u>	ort												
TEAS	S/ TEAMS (HTSF)	FFP	Eglin AFB, FL	2.150	0.103	N/A	0.000	N/A	0.000	N/A	0.000	2.253	2.253
AAC/	/WMG (Fuzes)	In-house	Eglin AFB, FL	2.554	0.106	N/A	0.940	N/A	0.486	N/A	Continuing	TBD	TBD
AAC/	/WMG (IM)	In-house	Eglin AFB, FL	0.000	0.756	N/A	1.352	N/A	1.120	N/A	1.379	4.607	4.607
TEAS	S/TAMS (IM)	FFP	Eglin AFB, FL	0.000	0.730	N/A	0.614	N/A	0.685	N/A	1.099	3.128	3.128
Subto	otal Support			4.704	1.695		2.906		2.291		Continuing	TBD	TBD
Rema	part of the Program Office.			SPO) for tec	hnical (TEAS) aı	nd mana	gement/f	inancial	(TAMS	b) services. A	AAC/WI	MG is
	& Evaluation												
	Test Wing (HTSF)	In-house	Eglin AFB, FL	1.575	0.060		0.000	N/A	0.000		0.000	1.635	1.635
	Test Wing (IM)	In-house	Eglin AFB, FL	0.000	0.200		0.377	N/A	1.006	N/A	3.393	4.976	4.976
•	, China Lake (IM)	Navy	China Lake, CA	0.000	0.105	N/A	0.425	N/A	1.000	N/A	0.000	1.530	1.530
Subto	otal Test & Evaluation			1.575	0.365		0.802		2.006		3.393	8.141	8.141
Rema													
$(\mathbf{I}\mathbf{I})$ (\mathbf{T}) (\mathbf{I})	Cost			24.142	7.245		6.973		6.936		Continuing	TBD	TBD

	Exhibit R-4, RDT&	E Sche	dule Profile	•		DAT	February 2004
T ACTIVITY stem Development and Demons	stration (SDD)		06046	MBER AND TITLE 02F Armament/ opment	Ordnance	PROJECT NU 3133 Bomb	MBER AND TITLE
	ensitive gramma			and the second	Contraction of the second second		
1	FY01 FY	14-14 Par 14	FY03	FY04	FY05	FY06	FY07
IM Pre-Phase I	Lethality Study	SAC 12-301 1.0		112 0 4			
IM Concept & Technology Development (CTD)			ive Fill Dev Bomb Study	Aux Bo	oster Dev •		
IM Weapons Qualification				Sys Int	Sys Int MK-84	MK-82 I Qual	Qual
JPF - FAAT JPF - INTEG				FAAT	Integratio	n on Legar	y weapons

	PROJECT NUMBER AND T 3133 Bombs & Fuzes					
<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>				
	1-3Q					
	4Q	1-4Q				
1-4Q	1-3Q					
1-4Q	1-2Q					
	2-4Q					
	2-4Q	1-4Q				
		2-4Q				
	0604602F Armament/Ordnance Development FY 2003 1-4Q	0604602F Armament/Ordnance Development 3133 Bombs & Fuzes FY 2003 FY 2004 1-3Q 4Q 1-3Q 4Q 1-4Q 1-3Q 1-4Q 1-4Q 1-3Q 1-2Q 2-4Q				

	Ext	nibit R-2a, F	RDT&E Pro	ject Justifi	ication			DATE	February	2004
	GET ACTIVITY ystem Development and Demonstrat	tion (SDD)		0	e NUMBER AND 604602F Arm Development		ance	PROJECT NUME 4696 Armam Program		lization
	Cost (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	Total
		Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
469		1.150	1.238	1.275		1.305	1.326		Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0		
(U)	A. Mission Description and Budget Item Armament Standardization/Control/Munit commonality of improved munitions hand development of MMHE and armament co This program is in Budget Activity 5 - Sys functions.	tions Material H lling and armam ntrol systems. I	ent equipment Procurement w	to preclude du ill be performe	plication and paid and funded by	roliferation. The applicable	nis project's ef e weapons sys	forts are limited tem project.	l to the study, d	
(U)	B. Accomplishments/Planned Program (Design, prototype, and test various MMHE Total Cost							<u>2003</u> 1.150 1.150	<u>FY 2004</u> 1.238 1.238	<u>FY 2005</u> 1.275 1.275
(U)	C. Other Program Funding Summary (S		<u>2004</u> <u>F</u>	Y 2005	FY 2006	FY 2007	FY 2008	EV 2000	Cost to	
				Estimate	<u>Estimate</u>	<u>FY 2007</u> Estimate	<u>FY 2008</u> Estimate	FY 2009 Estimate	<u>Cost to</u> Complete	Total Cost
(U)	-		<u></u>	<u>Istilluce</u>	Listimate		Dottinuto	Dottimute	compiete	
(U)	D. Acquisition Strategy MMHE is a continuing effort program wit will be performed and funded by the appli	-	-	lly and/or cont	tracted through	Military Interd	epartmental P	urchase Reques	ts (MIPR). Pro	ocurement
Pro	ect 4696		R-1 Sh	opping List - Item	n No. 78-7 of 78-1	4			Exhibit R-2a (PE 0604602F)

	Exhibit R-3,	RDT&E Project Cos	st Analysis	5					DATE	Februa	ry 200	94
BUDGET ACTIVITY 05 System Development and Demo	nstration (SDD)		0604602F Armament/Ordnance 4696						ECT NUMBER AND TITLE Armament Standardization ram			
(U) Cost Categories	Contract Met	hod Performing Activity a	<u>& Total</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	Cost to	<u>Total</u>	Target
(Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>& Type</u>	Location	Prior to FY 2003 Cost	<u>2003</u> <u>Cost</u>	2003 Award Date	<u>2004</u>	2004 Award Date	<u>2005</u>	2005 Award Date		<u>Cost</u>	Value of Contract
(U) <u>Support</u>			<u></u>		Dute		Dute		Dute	í		
TEAS/TAMS	FFP	Eglin AFB, FL	2.785	0.534	N/A	0.709	N/A	0.738	N/A	Continuing	TBD	
AAC/FM	In-house (RREO)	Eglin AFB, FL	0.611	0.063	N/A	0.070	N/A	0.077	N/A	Continuing	TBD	
64 SSUPS/LGS	In-house (RREO)	Eglin AFB, FL	0.226	0.290	N/A	0.294	N/A	0.298	N/A	Continuing	TBD	
EDSC	In-house (RREO)	Eglin AFB, FL	0.030	0.013	N/A	0.015	N/A	0.017	N/A	Continuing	TBD	
Remarks: part of the Program Office Order/Request for Supppr U) <u>Test & Evaluation</u> 46th Test Wing				-							2	
40th Test Wing	(RREO)	Lgiii Ai D, I L	0.800	0.250	N/A	0.150	N/A	0.145	N/A	Continuing	TBD	
Subtotal Test & Evaluation Remarks:	(11120)		0.800	0.250		0.150		0.145		Continuing	TBD	0.000
U) Total Cost			4.452	1.150		1.238		1.275		Continuing	TBD	0.000

Exhibit R-4, RD	T&E Schedule Profile	DATE February 2004
DGET ACTIVITY System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604602F Armament/Ordnance Development	PROJECT NUMBER AND TITLE
Armament Standardization	Program Schedule	
	r rogram seneware	
Not Applicable		
roject 4696	R-1 Shopping List - Item No. 78-9 of 78-14	Exhibit R-4 (PE 060460

	RDT&E Schedule Detail		DATE February	y 2004
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604602F Armament/Ord Development	dnance 469	DJECT NUMBER AND TITLE 6 Armament Standar 9 gram	
 (U) <u>Schedule Profile</u> (U) N/A 	<u>F</u>	<u>Y 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Project 4696	R-1 Shopping List - Item No. 78-10 of 78-14		Exhibit R-4a	(PE 0604602F)

	Ext	nibit R-2a, F	RDT&E Pro	ject Justifi	cation			DATE	DATE February 2004			
BUDGET ACTIVIT 05 System Dev	Y Velopment and Demonstrat	ion (SDD)		0	E NUMBER AND 604602F Arm evelopment			PROJECT NUME 5613 Contair				
	Cost (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete Continuing abase to preclude handling and lo	Total		
	· · · · ·	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate				
5613 Contain		0.135	0.136	0.142	0.145	0.151	0.153		Continuing	TBD		
Quanti	ty of RDT&E Articles	0	0	0	0	0	0	0				
Containers proliferatio In addition	 Description and Budget Iten This project funds the operation and duplication of munitions CDRS supports organic containant is in Budget Activity 5 - System 	on of the Tri-Se containers. It iner design, acq	also supports the uisition transponder	he Joint Ordnar ortation, protot	nce Commande yping and testin	r's Working Gr ng capabilities.	oup (JOCWG)) for packaging	, handling and l	loading.		
(U) Initiate/con(U) Provide corMaterial Ha	lishments/Planned Program (Stinue/complete design/developm tainer design expertise and tech andling Equipment, and Small D l operate the CDRS database an	nent of various on nical support to nical support to Diameter Bomb	programs such		loff Weapon, N	Iunitions		2003 0.006 0.006 0.123 0.135	0.006 0.006 0.124	<u>FY 2005</u> 0.006 0.006 0.130 0.142		
(U) <u>C. Other F</u>	rogram Funding Summary (\$	in Millions)										
(U) N/A					<u>FY 2006</u> <u>Estimate</u>	FY 2007 Estimate	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>		
(U) <u>D. Acquis</u> Not Applie Project 5613	ition Strategy eable				No. 78-11 of 78-					PE 0604602F)		

	Exhibit R-3, F	RDT&E Project Cost	Analysis	5				DATE	Februa	ry 200	4
BUDGET ACTIVITY 05 System Development and Demo r	stration (SDD)							ROJECT NUMBER AND TITL 613 Containers			
 U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions) U) <u>Support</u> 	<u>Contract Meth</u> <u>& Type</u>	od Performing Activity & Location	<u>Total</u> Prior to FY <u>2003</u> <u>Cost</u>	<u>FY</u> 2003 <u>Cost</u>	<u>FY</u> 2003 <u>Award</u> Date	FYFY20042004CostAwardDate	<u>FY</u> 2005 <u>Cost</u>	<u>FY</u> 2005 Award Date	-		<u>Targe</u> Value o Contrad
Sverdrup (TEAS) AAC/WMO Subtotal Support Remarks: AAC/WMO is part of the	FFP In-house	Eglin AFB, FL Eglin AFB, FL	1.575 0.811 2.386	0.014 0.121 0.135		0.015 Jun-01 0.121 N/A 0.136			Continuing Continuing Continuing	TBD TBD TBD	0.00
J) Total Cost	C		2.386	0.135		0.136	0.142		Continuing	TBD	0.0
Project 5613		R-1 Shopping List -	Itom No. 78.12	o of 79 14					Evhikit D	-3 (PE 06(14602E

Exhibit R-4, RDT&E Schedule Profile		DATE February 2004
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604602F Armament/Ordnance Development	PROJECT NUMBER AND TITLE 5613 Containers

Containers Program Schedule

Not Applicable

Project 5613

R-1 Shopping List - Item No. 78-13 of 78-14

Exhibit R-4 (PE 0604602F)

UNCLASSIFI	ED
------------	----

Exhibit R-4a, RDT&E Schedule Detail		DATE February 2004
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604602F Armament/Ordnance Development	PROJECT NUMBER AND TITLE 5613 Containers
 (U) <u>Schedule Profile</u> (U) Not Applicable 	<u>FY 2003</u>	<u>FY 2004</u> <u>FY 2005</u>
Project 5613	R-1 Shopping List - Item No. 78-14 of 78-14	Exhibit R-4a (PE 0604602F)