PE TITLE: Armament/Ordnance Development

PE NUMBER: 0604602F

	RDT&E BUDGET ITEN	I JUSTI	FICATI	ON SH	EET (R	-2 Exhi	bit)		DATE	June	2001
	T ACTIVITY  Engineering and Manufacturing De	velopme	ent	<b>=</b>	UMBER AND 14602F	TITLE Armame	nt/Ordna	ance Dev	velopme	ent	
	COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
	Total Program Element (PE) Cost	18,046	9,786	3,838	6,952	10,486	2,764	55,002	244,127	Continuing	TBD
3133	Bombs & Fuzes	16,742	8,473	2,475	5,555	9,060	1,310	53,517	242,610	Continuing	TBD
4696	Armament Standardization Program	1,171	1,183	1,230	1,261	1,285	1,309	1,334	1,360	Continuing	TBD
5613	Containers	133	130	133	136	141	145	151	157	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	Continuing	TBD

Note: The FY03-FY07 budget numbers do not reflect DoD's strategic review results.'

Note: FY02 funding was increased to reflect the development of an explosive fill to make conventional weapons insensitive to unplanned stimuli for MK-80 series bombs as set forth in DoD Regulation 5000.2-R. This Insensitive Munitions effort is a new start effort within the Bombs and Fuzes BPAC (653133).

### (U) A. Mission Description

The Armament Ordnance Development program provides for initial and continuing development of munition equipment for support and operational use.

Armament Standardization/Control/Munitions Material Handling Equipment (MMHE): This continuing project develops and improves the standardization and commonality of munitions handling and armament equipment to preclude duplication. This project's efforts are limited to the study, design, and development, of MMHE and armament control systems. Procurement will be performed and funded by the applicable weapons system project.

Bombs and Fuzes: This project develops and improves conventional bombs and fuzes. It currently includes the development of the Hard Target Smart Fuze (HTSF). Miniaturized Munitions Capability (MMC) continues the Concept Exploration phase in this project. Initial MMC funding was used to explore concepts to meet CAF MNS 304-97, 'Miniaturized Munitions Capability'. The Insensitive Munitions (IM) new start effort will initiate the development of an explosive fill to make conventional weapons insensitive to unplanned stimuli for MK-80 series bombs.

Containers: This project funds the operation of the tri-service Container Design Retrieval System (CDRS). This maintains a container database to preclude proliferation and duplication of munitions containers. It also supports organic container design, acquisition transportation, prototyping, testing capabilities, as well as the Joint

Page 1 of 14 Pages

Exhibit R-2 (PE 0604602F)

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

DATE

June 2001

BUDGET ACTIVITY

PE NUMBER AND TITLE

05 - Engineering and Manufacturing Development

0604602F Armament/Ordnance Development

### (U) A. Mission Description Continued

Ordnance Commander's Working Group (JOCG) for Packaging, Handling, and Loading.

### (U) B. Budget Activity Justification

This program is in budget activity 5 - Engineering and Manufacturing Development because the projects support the EMD phase of several munitions related items and functions.

### (U) C. Program Change Summary (\$ in Thousands)

		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>
(U)	Previous President's Budget (FY 2001 PBR)	23,567	8,876	1,355	TBD
(U)	Appropriated Value	23,567	21,876		TBD
(U)	Adjustments to Appropriated Value				
	a. Congressional/General Reductions		-153		TBD
	b. Small Business Innovative Research	-141			TBD
	c. Omnibus or Other Above Threshold Reprogram	-4,989			TBD
	d. Below Threshold Reprogram	-298			TBD
	e. Rescissions	-93	-48		TBD
(U)	Adjustments to Budget Years Since FY 2001 PBR		-11,889	2,483	
(U)	Current Budget Submit/FY 2002 PBR	18,046	9,786	3,838	TBD

### (U) Significant Program Changes:

FY00: \$4.989M reduction was result of reprogramming action to move funds for fixed target MMC risk reduction for Mk-82 JDAM to 64618F.

FY01: \$13M Congressional add of which \$12M was to 'accelerate development of a 250 pound MMC variant' and \$1M was for cast ductile bomb development. \$11.889M was subsequently moved to newly established Small Diameter Bomb PE 64329F.

FY02: Funding was increased to reflect the development of an explosive fill to make conventional weapons insensitive to unplanned stimuli for MK-80 series bombs as set forth in DoD Regulation 5000.2-R. This Insensitive Munitions effort is a new start effort within the Bombs and Fuzes BPAC (653133).

Page 2 of 14 Pages

Exhibit R-2 (PE 0604602F)

	RDT&E BUDGET ITEM	JUSTIF	ICATIO	N SHE	ET (R-	2A Exh	ibit)		DATE	June 2	2001			
	GET ACTIVITY - Engineering and Manufacturing D	evelopme	ent		UMBER AND <b>4602F</b>		nt/Ordna	ance De	velopme	ent	PROJECT <b>3133</b>			
	COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost			
3133	Bombs & Fuzes	16,742	8,473	2,475	5,555	9,060	1,310	53,517	242,610	Continuing	ТВІ			
Note	: FY03-FY07 budget numbers do not reflect DoI	D's strategic 1	eview resul	ts.										
set fo	Note: FY02 funding was increased to reflect the development of an explosive fill to make conventional weapons insensitive to unplanned stimuli for MK-80 series bombs as set forth in DoD Regulation 5000.2-R. This Insensitive Munitions effort is a new start effort within the Bombs and Fuzes BPAC (653133).  (U) A. Mission Description  Bombs and Fuzes: This project develops and improves conventional bombs and fuzes including the development of the Hard Target Smart Fuze (HTSF). The HTSF is a layer counting and void sensing fuze that will be used with air-to-ground penetrator weapons. Miniaturized Munitions Capability (MMC) continues the Concept Exploration phase in this project. Insensitive Munitions development is a new start effort to initiate development of an insensitive munitions explosive fill to make conventional weapons insensitive to unplanned stimuli as set forth in DoD Regulation 5000.2-R.													
	•	stimuli as set	forth in Do	D Regulati	on 5000.2-l	R.								
(U) (U) (U) (U) (U) (U) (U)	FY 2000 (\$ in Thousands) \$4,531 Conducted HTSF contract \$3,030 Initiated HTSF developm \$4,672 Conducted MMC Concept \$3,741 Conducted and complete \$768 Program Office Support \$16,742 Total * The following net transactions are not reflected the R-docs where an FY01 total is shown.	nental test and ot Exploratio d MMC AOA	d evaluation n Contracts A Modeling	and Analys		1 SBIR = -3	15.K. The	se transactio	ons are not	reflected in	other sections c			
(U) (U) (U) (U) (U) (U)	FY 2001 (\$ in Thousands) \$1,866	nental test ar al Utility Ev	nd evaluatio aluation (O	n (DT&E)		_			CT&E)					

Exhibit R-2A (PE 0604602F)

Project 3133

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

DATE

**June 2001** 

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

### 05 - Engineering and Manufacturing Development

0604602F Armament/Ordnance Development

3133

#### (U) A. Mission Description Continued

(U) <u>FY 2002 (\$ in Thousands)</u>

(U) \$300 Start Reformulation development of insensitive explosive fill

(U) \$1,900 Start Small-scale Sensitivity and Qualification Testing and Booster Study Test

(U) \$275 Start Small-scale Performance Testing

(U) \$2,475 Total

#### (U) B. Project Change Summary

- FY01: \$13M Congressional add of which \$12M was to 'accelerate development of a 250 pound MMC variant' and \$1M was for cast ductile bomb development. \$11.889M was subsequently moved to newly established Small Diameter Bomb PE 64329F
- FY02 New Start effort to initiate Insensitive Munitions (IM) development for MK-80 series bombs.

#### (U) C. Other Program Funding Summary (\$ in Thousands)

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to	Total Cost
	<u>Actual</u>	<b>Estimate</b>	<u>Complete</u>							
e	3,000	6,000	6,000	12,000						

(U) Hard Target Smart Fuze (HTSF) procurement funded by Defense Threat Reduction Agency (DTRA)

### (U) D. Acquisition Strategy

The Hard Target Smart Fuze (HTSF) Acquisition Strategy was full and open competition for the EMD program with production options to meet performance specification requirements for current and future Hard Target munitions. The HTSF will be compatible with GBU-24, GBU-27, GBU-28, GBU-15, AGM-130, AGM-142, JDAM, and future hard target munitions while providing increased reliability and emphasis on life cycle management. The HTSF program was augmented with Defense Threat Reduction Agency (DTRA) funding and requirements for additional HTSF applications and follow-on fuze procurement. Acquisition strategy for MMC activities can be found in the Small Diameter Bomb PE 64329F. Acquisition strategy for Insensitive Munitions activities are TBD.

### (U) E. Schedule Profile

FY 2000 FY 2001 FY 2002

Project 3133 Page 4 of 14 Pages Exhibit R-2A (PE 0604602F)

	RDT&E BUDGET ITEM JUSTIFICAT												
	GET ACTIVITY - Engineering and Manufacturing Development	evelop	ment		PRO <b>31</b> 3	JECT <b>33</b>							
05		1 n diffic	9604 FY 2			1		2001 3 *	4	1 X X X	FY 2		
F	Project 3133	Pag	ge 5 of 14	Pages						Exhibit F	R-2A (P	E 0604	602F)_

	RDT&E PROG	RAM ELE	)	DATE	June 200	)1					
	GET ACTIVITY  Engineering and Man	nufacturing	Developm	ent		er and title <b>)2F Arman</b>	nent/Ordn	ance Dev	elopment		PROJECT 3133
(U)	A. Project Cost Breakdown	(\$ in Thousand	ds)								
								2000	FY 200		FY 2002
(U)	Contractor Total						10,	425	3,50	00	0
(U)	Government										335
(U)	Testing							236	2,54		1,605
(U)	Contractor support						· · · · · · · · · · · · · · · · · · ·	808	66		260
(U)	Management support							273	1,77		275
(U)	Total						16,	742	8,47	'3	2,475
(U)	B. Budget Acquisition Histor	ry and Plannin	g Information	ı ( <b>\$ in Thousand</b>	<u>s)</u>						
(U)	<b>Performing Organizations:</b>										
	Contractor or	Contract									
	Government	Method/Type	Award or	Performing	<b>Project</b>						
	Performing	or Funding	<b>Obligation</b>	<u>Activity</u>	<b>Office</b>	Total Prior	<b>Budget</b>	<b>Budget</b>	<b>Budget</b>	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2000	FY 2000	FY 2001	FY 2002	Complete	Program
	Product Development Organiz	zations									
	Motorola (JPF)	CPAF	Jul 93	21,357	21,357	21,357	0	0		0	21,357
	Alliant (HTSF)	C/CPIF	Aug 98	16,010	16,010	5,474	5,200	3,500		Continuing	TBD
	Boeing (MMC)	FFP	Jan 99	250	250	250	1,313	0		Continuing	TBD
	Lockheed (MMC)	FFP	Jan 99	250	250	250	1,318	0		Continuing	TBD
	Raytheon (MMC)	FFP	Jan 99	250	250	250	1,320	0		Continuing	TBD
	Northrup (MMC)	FFP	Jan 99	250	250	250	1,274	0		Continuing	TBD
	Air Force Research Lab (IM)	In-house	N/A	2,475	2,475	0	0		335		335
	Support and Management Org	anizations									
	HTSF TEAS/ TEAMS	Various	Various	N/A	N/A	1,171	979	660		Continuing	TBD
	MMC TEAS/ TEAMS	Various	Various	N/A	N/A	424	829	0		Continuing	TBD
	JPF TEAS/TEAMS	Various	Various	N/A	N/A	512	0	0		0	512
	AAC/WG (HTSF)	Various	Various	N/A	N/A	1,339	1,215	454		Continuing	TBD
	AAC/WMX (MMC)	Various	Various	N/A	N/A	1,620	1,058	0		Continuing	TBD
	Other MMC	Various	Various	N/A	N/A	1,050	0	0		0	1,050
P	roject 3133			Dogo	6 of 14 Pa	σος.			Evhih	it R-3 (PE (	0604602E)
Г	roject a raa			rage	our 14 Fa	gus			LAHID	11 11-3 (FE	JUU4UUZI")

RDT&E PROG	RAM ELE	MENT/PROJ	ECT C	OST BR	EAKDO\	WN (R-3)		DATE	June 2001	
BUDGET ACTIVITY <b>05 - Engineering and Man</b>	ufacturing	Development			R AND TITLE <b>PF Arman</b>	nent/Ordn	ance Deve	elopment		ROJECT 8133
(U) Performing Organizations C Support and Management Orga WL/MN (cast ductile bomb) AFRL/MN (IM) Test and Evaluation Organizat 46th Test HTSF 46th test JPF MMC Test	Continued: anizations Various In-house tions Various Various In-house	Various N/A Mar 94 Mar 94 N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	0 0 590 3,315 0 0 Total Prior to FY 2000 27,831 6,116	0 0 985 0 1,251 0 <u>Budget</u> <u>FY 2000</u> 10,425 4,081	998 320 2,541 0 0 0 <u>Budget</u> FY 2001 3,500 2,432	1,605 <u>Budget</u> <u>FY 2002</u> 335 535	Continuing Continuing  O  Budget to Complete TBD TBD	TBI TBI 3,31. 1,25 1,60 Tota Program TBI TBI
Subtotal Test and Evaluation Total Project					3,905 37,852	2,236 16,742	2,541 8,473	1,605 2,475	TBD TBD	TBI TBI
Project 3133			Page 7 of 14 Pages Exhibit R-3 (PE 0604							04602F)

	RDT&	E BUDGET ITEM	JUSTIF	ICATIO	N SHE	ET (R-	2A Exh	ibit)		DATE	June :	2001	
	GET ACTIVITY	d Manufacturing De			PE N	UMBER AND <b>4602F</b>	TITLE	-	ance De	velopme		PROJECT <b>4696</b>	
	COST (\$ in	Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost	
4696	Armament Standard	lization Program	1,171	1,183	1,230	1,261	1,285	1,309	1,334	1,360	Continuing	TBD	
* 'Th	The FY03-FY07 budget numbers do not reflect DoD's strategic review results.'												
(U) (U)	Armament Standardization/Control/Munitions Material Handling Equipment (MMHE): This continuing project develops and improves the standardization and commonality of improved munitions handling and armament equipment to preclude duplication. This project's efforts are limited to the study, design, and development, of MMHE and armament control systems. Procurement will be performed and funded by the applicable weapons system project.  FY 2000 (\$ in Thousands)												
(U)	Designed, prototyped, and tested various MMHE projects, i.e., Flightline Service Cart, F-16 Pylon Load Adapter, Practice Bomb Transport Module and ADU-537 Upgrade. Completed development of M61 Gun Firing Stand, Containter Dolly, MJ-1 Platform, Trailer Stabilizer Jack, Flare Squibbing Fixture, AME Maintenance Stand, B-1B Practice Bomb Adapter Rack Fixture, Missile Lift Beam Modification, JDAM Strap Adapter Redesign, Common Maintence Table, Y-stand Dolly, evaluation of Next Generation Muntions Handler and Missile Dislodge Tools. Continued AGM-84 Loading Adapter, B-52 Loading Adapter.												
(U) (U) (U) (U) (U) (U)	\$293 \$74 \$49 \$72 \$100 \$1,171	Continued development of Completed development of Completed development of Continued development of Continued development of Total	f ALE-50 F f B-1B Rot Joint JASS	lare Transp ary Launche SM Handlin	ort Module er Adapter. g Adapters.			tinued evalu	aation of Ne	ext Generat	ion Munitio	ns Handler.	
(U) (U)	FY 2001 (\$ in Thous: \$1,183	ands)  Design, prototype, and test Replenisher Upgrade, AM Cable Seating Tool, JASSI development of Aluminum Adapter, MAC Dolly-Stop Actuator Redesign, Live D Launcher-Module Storage	E Mobility M Downloa n Rail Set, 7 Redsign, F Prop BDU-5	Rack, Chaf d Adapter, G-2 Pallet L G-16 Pylon/I GO Stand, St	f/Flare Trar MHU-110 ' ocking Dev Launcher St rake/Lug A	nsport Modu Trailer Upg ice, JASSM torage Stand lignment To	nle, Missile rade, Stora Loading/F I, FMU-139 pol, B-1B S	e-Munitions ge and Practional Handling Actional Of Closure Rowing Arm	Loading Actice Bomb lapters, AG ing Tool, F Tool. Cont	Adapter ( M Transport I M-84 Fork MU-139 Ca inue develo	MLA) Upgr Module. Co Adapter, B- able Seating opment of B-	ade, FMU-139 mplete .52 Loading Tool, MMLA -1B	
Р	roject 4696				Page 8 of 1	4 Pages				Exh	ibit R-2A (F	PE 0604602F)	

	RDT&	E BUDGET ITE	M JUS	TIFICAT	TION S	HEE	T (R-:	2A Ex	(hib	oit)		DATE		une 2	001	
	GET ACTIVITY - <b>Engineering ar</b>	nd Manufacturing	Develop	ment			BER AND <b>02F</b> /		nent	/Ordnan	ce Dev	elopn	nent		PRO. <b>469</b>	
(U)	A. Mission Descript	ion Continued														
(U)	FY 2001 (\$ in Thous	ands) Continued  Torque Retainer, MM  Loader Replenisher U	10		•					•				_	Adapter,	, Ammo
(U)	\$1,183	Total	10	1 3		•				1	·	C				
(U) (U)	FY 2002 (\$ in Thous \$1,230	ands) Design, prototype, an LAU-106 Maintenand Stand Redesign, Pract B-52 Launcher Hydra Upgrade. Perform M Mobility Rack, LAU- International Service Weapon System Prog Total	ce Stand, Gu tice Bomb T tulic Power V HU-110 Tra 106 Mainter Organization	n Maintenar Fransport Mo Unit, B-52 M iler Upgrade nance Stand, n (ISO) Cont	nce Stand. Odule and Mine Loadine, Ammo L Triple Eje	Comple MAC To ng Adap oader T ctor Ra	ete deve orque Re pter, Ne Cest Fixt ck (TER	lopment etainer. kt Gener ure, JAS ) Storag	of B-Contination SM Dec Rac	-1B Launch nue develop Munitions I Download A k, B-52 Yo	er-Module oment of I Handler an dapter, Al ke Stand/L	Storage MAC Und Amn ternate Lift Bea	ge Stand pgrade, no Load Mission m, Gun	l, AIM- MMLA er Reple Equipr Mainter	9 Assem A Upgradenisher ment (AM nance St	nbly le, ME) and,
(U)	B. Project Change S															
(U)		Summary Sunding Summary (\$ i	n Thousand	(c)												
(0)	C. Other Trogram I	FY 2000	FY 2001	FY 2002	FY 2003		2004	FY 20		FY 2006	FY 200		Cost		<u>To</u>	otal Cost
(U)	N/A	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimat</u>	e <u>Es</u>	<u>stimate</u>	<u>Estim</u>	ate	<u>Estimate</u>	<u>Estimat</u>	<u>te</u>	Comp	<u>lete</u>		
( <b>U</b> )		egy g effort program with a ble equipment project.	ctivites cont	racted throu	gh Military	Interd	epartme.	ntal Purc	chase l	Requests (N	MIPR). Pr	ocurem	ent will	be perfe	ormed aı	nd
( <b>U</b> )	E. Schedule Profile															
					1	<u>FY 2</u> 2	<u>000</u> 3	4	1	<u>FY 2</u> 2	3	4	1	<u>FY 2</u>	2 <u>002</u> 3	4
(U)	N/A				-	_	3	•	•	_		·	•	-	5	•
_	11	HE does not execute in	accordance	with standar	•			Project	activit	ties are perf	ormed on		Ü		E 000 45	) )
P	roject 4696				Page 9	ot 14 P	ages					E	xnibit k	:-2A (PI	E 06046	JU2F)

	RDT&E PROC	RAM ELE	MENT/P	ROJECT CO	OST BI	REAKDO	WN (R-3)		DATE	June 200	)1
	SET ACTIVITY  Engineering and Ma	nufacturing	Developr	ment		ER AND TITLE D <b>2F Arman</b>	nent/Ordn	ance Dev	elopment	i	PROJECT <b>4696</b>
(U)	A. Project Cost Breakdown	n (\$ in Thousand	ds)								
(T.T)	W' MATER'						<u>FY 2</u>		FY 20		FY 2002
(U)	Various MMHE Projects			CN COMM				583 293	1,18	33	1,230
(U) (U)	Aluminum Rail Set, T-2 Pall Next Generation Munition H		ce, evaluation	i of Next Generatio	n Munitior	ns Handler		293 100			
(U) (U)	B-1B Rotary Launcher Adap	0						49			
(U)	ALE-50 Transport Module	ici						74			
(U)	JASSM Handling Adapters							72			
(U)	Total						1	171	1,18	33	1,230
		I DI	T 0 41	(A • AD)	`		1,	1/1	1,10		1,230
(U)	B. Budget Acquisition History	ory and Plannin	g Informatio	on (\$ in Thousands	<u>s)</u>						
( <b>U</b> )	<b>Performing Organizations:</b>										
	Contractor or	Contract									
	Government	Method/Type	Award or	<u>Performing</u>	<b>Project</b>						
	Performing	or Funding	<b>Obligation</b>	<u>Activity</u>	<u>Office</u>	Total Prior	<b>Budget</b>	<u>Budget</u>	<u>Budget</u>	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2000	FY 2000	FY 2001	FY 2002	Complete	<u>Program</u>
	Product Development Organi										
	Dept. of Energy/NASA	MIPR				740	224	219	227	Continuing	TBD
	Support and Management Or		0 . 00	27/4	37/4	1.550	600	62.6	641	a .: :	TD D
	TEAS/TAMS	MIPR	Oct 99	N/A	N/A	1,550	609	626	641	Continuing	TBD
	AFDTC/FM	MIPR	Oct 99	N/A	N/A	365	123	123	124	Continuing	TBD
	64SSUPS/LGS WL/MN	MIPR MIPR	Cont.	N/A N/A	N/A	146	40	40 25	46	Continuing	TBD
	Test and Evaluation Organiza		Cont.	1 <b>N</b> / <i>A</i>	N/A	105	25	23	30	Continuing	TBD
	46th Test Wing	MIPR	Cont.	N/A	N/A	400	150	150	162	Continuing	TBD
(U)	<b>Government Furnished Pro</b>	perty:									
		Contract									
		Method/Type	Award or								
	<u>Item</u>	or Funding	Obligation	<u>Delivery</u>		<b>Total Prior</b>	<b>Budget</b>	<b>Budget</b>	<u>Budget</u>	Budget to	<u>Total</u>
	<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>		to FY 2000	FY 2000	FY 2001	FY 2002	Complete	<u>Program</u>
Р	roject 4696			Page	10 of 14 Pa	ages			Exhib	oit R-3 (PE 0	604602F)

RDT&E PROG	RAM ELEMENT/	PROJEC	T COST BI	REAKDO	WN (R-3)		DATE	June 2001	
BUDGET ACTIVITY  05 - Engineering and Mar	nufacturing Develop	ment		ER AND TITLE <b>)2F Arman</b>	nent/Ordn	ance Dev	elopment		PROJECT <b>1696</b>
(U) Government Furnished Pro  Item Description Product Development Propert N/A Support and Management Pro	Contract Method/Type Award or or Funding Obligation Vehicle Date ty	<u>Delivery</u> <u>Date</u>		Total Prior to FY 2000	Budget FY 2000	Budget FY 2001	Budget FY 2002	Budget to Complete	<u>Total</u> <u>Program</u>
Test and Evaluation Property  Subtotals Subtotal Product Developmer Subtotal Support and Manage Subtotal Test and Evaluation Total Project	nt ement			Total Prior to FY 2000 740 2,166 400 3,306	Budget FY 2000 224 797 150 1,171	Budget FY 2001 219 814 150 1,183	Budget FY 2002 227 841 162 1,230	Budget to Complete TBD TBD TBD TBD	Total Program TBD TBD TBD TBD
Project 4696			Page 11 of 14 Pa	iges			Exhib	it R-3 (PE 06	604602F)

	RDT&E	BUDGET ITEM .	JUSTIF	ICATIO	N SHE	ET (R-	2A Exh	ibit)		DATE	June :	2001
	SET ACTIVITY  Engineering and I	Manufacturing De	velopme	ent		UMBER AND <b>4602F</b>		nt/Ordna	ance De	velopme	ent	PROJECT <b>5613</b>
	COST (\$ in Tho	usands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
5613	Containers		133	130	133	136	141	145	151	157	Continuing	TBD
* 'Th	e FY03-FY07 budget num	nbers do not reflect DoD's	s strategic 1	eview resul	ts.'				ļ.			
(U)	Containers: This project funds the operation of the tri-service Container Design Retrieval System (CDRS). This system includes the maintenance of a container database to preclude proliferation and duplication of munitions containers. It also supports organic container design, prototyping, testing capabilities, as well as the Joint Ordnance Commander's Working Group (JOCG) for Packaging, Handling, and Loading. This project's efforts are limited to study, design, and development of container systems. The project also provides world wide acquisition transportation support and participates in Tri-Service groups and organizations for packaging, handling, logistic and transportation. Any procurement will be performed and funded by the applicable weapons system project.											
(U) (U) (U) (U)	\$5 In \$5 Pr A0 \$123 M	2000 (\$ in Thousands)  Initiate/continue/complete design/development of various CDRS projects, including a modular mobility container system, and special projects.  Provide container design expertise, management, and technical support to programs such as CALCM, JASSM, AMRAAM, AGM-142, MALD, AGM-130, and WCMD.  Manage and operate the CDRS data base and support service.										
(U) (U) (U) (U) (U)	Total  FY 2001 (\$ in Thousands)  Initiate/continue/complete design/development of various CDRS projects, including a modular mobility container system, and special projects.  Frovide container design expertise, management, and technical support to programs such as CALCM, JASSM, AMRAAM, AGM-142, MALD, AGM-130, and WCMD.  Manage and operate the CDRS data base and support service.											
(U) (U) (U) (U)	U) \$6 Initiate/continue/complete design/development of various CDRS projects, including a modular mobility container system, and special projects. U) \$5 Provide container design expertise, management, and technical support to programs such as CALCM, JASSM, AMRAAM, AGM-142, MALD, AGM-130, and WCMD.											
Р	roject 5613			]	Page 12 of 1	14 Pages				Exh	ibit R-2A (F	PE 0604602F)

	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)									DATE June 2001		
	GET ACTIVITY - <mark>Engineering and Man</mark> ı	ufacturing	g Develop	ment		NUMBER ANI <b>04602F</b>	D TITLE <b>Armamen</b>	t/Ordnan	ce Devel	opment	PROJECT <b>5613</b>	
( <b>U</b> )	A. Mission Description Conti	nued										
(U) (U)	FY 2002 (\$ in Thousands) Con \$133 Total	tinued										
( <b>U</b> )	<b>B. Project Change Summary</b> No significant program change	s.										
( <b>U</b> )	C. Other Program Funding S	ummary (\$ i FY 2000 Actual	in Thousand FY 2001 Estimate	<u>FY 2002</u> Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to		
(U)	Not Applicable	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complet	<u>.c</u>	
( <b>U</b> )	D. Acquisition Strategy Not Applicable											
	E. Schedule Profile					<u>FY 2000</u> 2 3	4 1	<u>FY 2</u> 2	001 3 4	1	<u>FY 2002</u> 2 3 4	
(U)	Not Applicable. The Containers basis.	s project does	s not execute	in accordance	ce with stand	ard acquisition	on milestones	s. Design and	l support eff	orts are perform	med on a continuing	
P	Project 5613				Page 13 of	f 14 Pages				Exhibit R-2	2A (PE 0604602F)	

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)									DATE	DATE June 2001			
BUDGET ACTIVITY  05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE  0604602F Armament/Ordnance Deve				•		PROJECT <b>5613</b>		
( <b>U</b> )	A. Project Cost Breakdow	n (\$ in Thousand	ds)										
							<u>FY </u>	<u>2000</u>	FY 20		FY 2002		
(U)	Travel/Transportation							72 ~1		70 70	72 •		
(U)	Supplies/Equipment							51		50	50		
(U)	Mission Support							10		10	11		
(U)	Total							133	1,	30	133		
( <b>U</b> )	<b>B. Budget Acquisition Hist</b>	tory and Plannin	g Information	n (\$ in Thousand	<u>ls)</u>								
( <b>U</b> )	<b>Performing Organizations</b>												
	Contractor or	<b>Contract</b>											
	Government	Method/Type	Award or	<u>Performing</u>	<b>Project</b>								
	Performing	or Funding	<b>Obligation</b>	<u>Activity</u>	<b>Office</b>	Total Prior	<u>Budget</u>	<b>Budget</b>	<u>Budget</u>	Budget to	<u>Total</u>		
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2000	<u>FY 2000</u>	FY 2001	FY 2002	Complete	<u>Program</u>		
	Product Development Organ	<u>nizations</u>											
	Not Applicable												
	Support and Management O	rganizations											
	Sverdrup (TEAS)	Various	Oct 93	N/A	N/A	1,455	0	0	0	Continuing			
	ASC/YHS	Various	Various	N/A	N/A	588	10	10	11	Continuing	TBD		
	Other	Various	Various	N/A	N/A	688	123	120	122	Continuing	TBD		
	Test and Evaluation Organiz	<u>zations</u>											
	46th Test Wing	Various	Various	N/A	N/A	190	0	0	0	Continuing	TBD		
						Total Prior	<b>Budget</b>	<b>Budget</b>	<u>Budget</u>	Budget to	<u>Total</u>		
	Subtotals					to FY 2000	FY 2000	FY 2001	FY 2002	Complete	<u>Program</u>		
	Subtotal Product Developme												
	Subtotal Support and Manag					2,731	133	130	133	TBD			
	Subtotal Test and Evaluation	n				190	0	0	0	TBD			
	Total Project					2,921	133	130	133	TBD	TBD		
Pı	roject 5613	e 14 of 14 Pages				Exhibit R-3 (PE 0604602F)							