

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

June 2001

BUDGET ACTIVITY
4 - DEM/VAL

PE NUMBER AND TITLE
0603802A - WEAPONS & MUNITIONS - ADV DEV

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	14874	35847	31670	0	0	0	0	0	0	0
066 SHOULDER-LAUNCHED MULTIPURPOSE ASSAULT WEAPON	2864	0	0	0	0	0	0	0	0	0
AS2 SMALL ARMS IMPROVEMENT	1691	2767	1430	0	0	0	0	0	0	0
AS3 OBJECTIVE INDIVIDUAL COMBAT WEAPON (OICW) PD/RR	10319	33080	30240	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This program element addresses the modernization of existing Small Arms Weapon systems. This program develops existing and emerging technology to enhance lethality, target acquisition, fire control, training effectiveness and reliability for small arms weapon systems and munitions. It also supports development of the Objective Individual Combat Weapon (OICW) which represents the next generation individual soldier's weapon and provides the soldier with significant increases in individual weapon performance. In addition, it supports development of the Shoulder-Launched Multipurpose Assault Weapon in FY01 and the Mortar Systems in FY02 and FY03. These systems support the Legacy and Objective transition paths of the Transformation Campaign Plan (TCP).

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<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	4681	28679	10148	0
Appropriated Value	4751	36179	0	
Adjustments to Appropriated Value	0	0	0	
a. Congressional General Reductions	0	0	0	
b. SBIR / STTR	-126	0	0	
c. Omnibus or Other Above Threshold Reductions	-19	0	0	
d. Reprogrammings	10319	0	0	
e. Rescissions	-51	-332	0	
Adjustments to Budget Years Since FY2001 PB	0	0	21522	
Current Budget Submit (FY 2002/2003 PB)	14874	35847	31670	0

Change Summary Explanation:

FY00/02/03 funds were realigned from EMD PE 0604802A/D134, Objective Individual Combat Weapn (OICW), to PE 0603802A/DAS3, to conduct Program Definition and Risk Reduction (PDRR) efforts.

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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
066 SHOULDER-LAUNCHED MULTIPURPOSE ASSAULT WEAPON	2864	0	0	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: The Bunker Defeat Munition (BDM) Shoulder-launched Multipurpose Assault Weapon - Disposable (SMAW-D) is being acquired to meet an urgent FORSCOM requirement to fill the "Bunker Buster" void in the Army inventory. The system is effective against various targets including earth and timber bunkers, masonry walls and light armored vehicles at ranges of 15-500 meters. Currently, the system cannot be fired from enclosed spaces. This effort will be to determine the feasibility of adapting the SMAW-CS (Confined Space) propulsion concept developed by Talley Defense Systems, Mesa, AZ, for the U.S. Marine Corps to the SMAW-D. The USMC program has been continually funded since FY 1997.

FY 2000 Accomplishments

- 375 Conduct feasibility study adapting SMAW-CS to BDM CS
 - 218 Initiate engineering analysis and support
 - 175 Component testing and evaluation
 - 50 Conduct modeling and simulation
 - 500 Fabricate prototypes
 - 671 Continue feasibility study
 - 150 Conduct limited test and evaluation
 - 725 Continue to provide engineering support and analysis
- Total 2864

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FY 2001 Planned Program

Project not funded in FY01.

B. Other Program Funding Summary: Not applicable for this item.

Not applicable.

C. Acquisition Strategy: The BDM SMAW-D was Type Classified Limited Procurement in 4QFY94 and was Full Materiel Released in 1QFY00. A sole source Firm Fixed Price contract will be awarded to the contractor to conduct a feasibility study to adapt USMC Confined Space technology to the BDM resulting in a product improved version which would be able to be fired from enclosed spaces. Additional funding would be required to qualify the system and provide for Type Classification.

<u>D. Schedule Profile</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
Initiate BDM CS Study	2Q			0	0	0	0	0
Conclude Feasibility Study		4Q		0	0	0	0	0

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PROJECT
066

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Concept Study	FFP	Talley Defense Systems	2000	0		0		0	0	0	0	0
Subtotal:			2000	0		0		0		0	0	0

II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Engineering Support		ARDEC	683	0		0		0	0	0	0	0
Subtotal:			683	0		0		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)

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PROJECT
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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Test Support		TECOM	200	0		0		0	0	0	0	0
Subtotal:			200	0		0		0		0	0	0

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

Remarks: Not Applicable

Project Total Cost:			2883	0		0		0		0	0	0
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AS2

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
AS2 SMALL ARMS IMPROVEMENT	1691	2767	1430	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: This project element addresses the modernization of existing Small Arms Weapon systems. The existing Small Arms Weapon Systems support the Army Transformation Campaign Plan and will be utilized by legacy, interim and objective forces. This program provides funds to develop existing and emerging technology to enhance lethality, target acquisition, fire control, training effectiveness and reliability for small arms weapon systems and munitions. Current small arms include a variety of personal defense weapons (.38 caliber, .45 caliber; 9mm), individual weapons (5.56mm), crew-served weapons (5.56mm-40mm) and related equipment such as fire control, training devices, hand grenades and ammunition. Current efforts focus on improvements to the M249 Squad Automatic Weapon, M16/M4 Rifle, M203 Grenade Launcher, MK19 Grenade Machine Gun and M240B Medium Machine Gun and hand grenades.

FY 2000 Accomplishments

- M249 MG Barrel Life Extension Program
- 50 Prototype Model Definition/Market Survey/Prototype Model Evaluation
- 50 Requirements Definition and Specification
- 180 Feasibility Study
- 20 Evaluation of Study
- M203 Upgrade
- 251 Technical Assessments
- 150 Trade-off Analysis
- 59 Defined Work Packages
- M249 Short Range Training Ammo
- 50 Market/Survey/Program Documentation
- 100 MS B Packages

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FY 2000 Accomplishments (Continued)

- 50 Procurement Package
- 50 Technical Evaluation/Negotiations
- 50 Best & Finals/Source Selection
- 150 Prepared Temp & Acquisition Strategy
M240 Weight Reduction
- 59 Established Parameters
- 88 Survey Materials
- 47 Awarded Trade Off Studies/Analysis Task Order
- 44 Trade Off Analysis
- 243 Fabricated Prototype Hardware

Total 1691

FY 2001 Planned Program

- M203 Upgrade
- 304 Prototype Development
- 416 Design/Fabricate Hardware
- 150 Test and Simulation
M249 Short Range Training Ammo
- 250 Contract Award
- 40 Develop and Fabricate Prototype
- 150 Conduct Proof of Principle Test
- 100 Requirements Review/Prepare Performance Spec
- 60 Prepare Technical Assessment
M240 Weight Reduction

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FY 2001 Planned Program (Continued)

- 300 Evaluate Alternate Material Receivers
- 158 Trade Off Analysis
- 200 Test and Evaluation
- 210 Material Analysis/Welding
- 116 Demo/Report/MS B
Family Of Light Weight Hand Grenades
- 75 Prepare Concussion/Mini-Frag Grenades Program Documentation
- 25 Conduct Market Survey
- 75 Prepare Procurement Package-Concussion/Mini-Frag Grenades Concept Development
- 55 Procurement Admin Lead Time (PALT)
- 83 Small Business Innovation Research/Small Business Technology Transfer

Total 2767

FY 2002 Planned Program

- M203 Upgrade
- 256 Finalize Prototype
- 50 System Demo
- 50 Update Systems Development and Demonstration Plan
- 50 Prepare/Staff IPR Package
- M240 Weight Reduction
- 335 Fabricate Welded Prototypes
- 200 Test and Evaluation
- 75 Systems Demonstration/IPR

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FY 2002 Planned Program (Continued)

Family of Light Weight Hand Grenades

- 54 Award Concussion/Mini-Frag Grenades Concept Development Contract
- 120 Design and Fabricate Prototype
- 190 Proof of Principle Testing
- 50 Final Report

Total 1430

B. Other Program Funding Summary

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
RDTE 0604802A, Project DAS1	7633	6979	1361	0	0	0	0	0	0	0

C. Acquisition Strategy: Primary strategy is to solcitate industry, make technical assessments, trade-off analysis, formulate and refine designs, test and evaluate items, and make determinations as to whether the item should be transitioned into Engineering Development.

D. Schedule Profile

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
M249 MG Barrel Life Extension Program				0	0	0	0	0
Prototype Model Definition/Market Survey/Prototype Model Evaluation	2-3Q			0	0	0	0	0
Requirements Definition and Specification	3Q			0	0	0	0	0
Feasibility Study	3-4Q			0	0	0	0	0
Evaluation of Study		1Q		0	0	0	0	0
M203 Upgrade				0	0	0	0	0
Technical Assessments	2-3Q			0	0	0	0	0
Trade-off Analysis	3-4Q			0	0	0	0	0
Define Work Packages	4Q			0	0	0	0	0
Prototype Development		1-2Q		0	0	0	0	0
Design/Fabricate Hardware		1-4Q	1Q	0	0	0	0	0

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D. Schedule Profile (continued)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Test and Simulation		1-4Q	1Q	0	0	0	0	0
Finalize Prototype			2-3Q	0	0	0	0	0
System Demo			4Q	0	0	0	0	0
Update Systems Development and Demonstration Plan			3Q	0	0	0	0	0
Prepare/Staff IPR Package			4Q	0	0	0	0	0
M249 Short Range Training Ammo				0	0	0	0	0
Market Survey/Program Documentation	1-2Q			0	0	0	0	0
MS B Packages (Use of FY00 c/o funds)		4Q		0	0	0	0	0
Prepare Procurement Package	3-4Q			0	0	0	0	0
Technical Evaluation/Negotiations		1-2Q		0	0	0	0	0
Best & Finals/Source Selection		4Q		0	0	0	0	0
Prepare TEMP & Acquisition Strategy		1-2Q		0	0	0	0	0
Contract Award		4Q		0	0	0	0	0
Develop/Fabricate Prototype		4Q		0	0	0	0	0
Conduct Proof of Principle Test		4Q	1Q	0	0	0	0	0
Requirements Review/Prepare Performance Spec		2-3Q		0	0	0	0	0
Prepare Technical Assessment			4Q	0	0	0	0	0
M240 Weight Reduction				0	0	0	0	0
Establish Parameters	1-2Q			0	0	0	0	0
Survey Materials	2-3Q			0	0	0	0	0
Award Trade Off Study/Analysis Task Order	3Q			0	0	0	0	0
Trade Off Analysis	4Q	1Q		0	0	0	0	0
Fabricate Prototype Hardware	4Q	1Q		0	0	0	0	0
Evaluate Alternate Material Receivers		2Q		0	0	0	0	0
Trade Off Analysis		2-3Q		0	0	0	0	0
Test and Evaluation		2-3Q		0	0	0	0	0
Material Analysis/Welding		2-3Q		0	0	0	0	0
Demo/Report/MS B		4Q		0	0	0	0	0
Fabricate Welded Prototypes			1Q	0	0	0	0	0
Test and Evaluation			2-3Q	0	0	0	0	0
Systems Demonstration/IPR			4Q	0	0	0	0	0
Family Of Light Weight Hand Grenade*				0	0	0	0	0

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<u>D. Schedule Profile (continued)</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Prepare Concussion/Mini-Frag Grenades Program Documentation		1Q		0	0	0	0	0
Conduct Market Survey		1Q		0	0	0	0	0
Prepare Proc Pkg - Concussion/Mini-Frag Grenades Concept Development		2-3Q		0	0	0	0	0
Procurement Admin Lead Time (PALT)		2-3Q		0	0	0	0	0
Award Concussion/Mini-Frag Grenades Concept Development Contract			1Q	0	0	0	0	0
Design and Fabricate Prototype			1-3Q	0	0	0	0	0
Proof of Principle Testing			3-4Q	0	0	0	0	0
Final Report			4Q	0	0	0	0	0
Prepare Obscuration/Signaling Grenades Program Documentation				0	0	0	0	0
Conduct Market Survey for Obscuration/Signaling Grenades				0	0	0	0	0
Prepare Procurement Package - Obscuration/Signaling Concept Development				0	0	0	0	0
Procurement Admin Lead Time (PALT)				0	0	0	0	0
MB B				0	0	0	0	0
Award Concept Development Contract for Obscuration Grenades				0	0	0	0	0
MK19 Self Destruct Cartridge				0	0	0	0	0
Market Survey/Program Documentation				0	0	0	0	0
Procurement Package				0	0	0	0	0
Source Selection				0	0	0	0	0
MS B				0	0	0	0	0
Contract Award				0	0	0	0	0

*C/M-F - Concussion/Mini-Frag Grenades **O/S - Obscuration/signaling Grenades

ARMY RDT&E COST ANALYSIS(R-3)

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PROJECT
AS2

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Hardware Development	TBD	TBD	743	1350		620		0	0	0	0	0
Subtotal:			743	1350		620		0		0	0	0

II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Development Support	MIPR	ARDEC	621	658		287		0	0	0	0	0
b . ILS Support	MIPR	ACALA	25	48		30		0	0	0	0	0
Subtotal:			646	706		317		0		0	0	0

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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Testing	MIPR	ARDEC/ATC	100	401		347		0	0	0	0	0
Subtotal:			100	401		347		0		0	0	0

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Program Mgt	ALLOT	OPMSA	177	280		126		0	0	0	0	0
b . TDY	ALLOT	OPMSA	25	30		20		0	0	0	0	0
Subtotal:			202	310		146		0		0	0	0

Project Total Cost:			1691	2767		1430		0		0	0	0
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AS3

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
AS3 OBJECTIVE INDIVIDUAL COMBAT WEAPON (OICW) PD/RR	10319	33080	30240	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: Objective Individual Combat Weapon (OICW) - represents the next generation of individual weapon system for U.S. Armed Services. This modular dual barrel weapon system includes revolutionary 20mm air bursting munitions, standard NATO 5.56mm kinetic energy projectiles and an integrated, multifunctional, all environment, full-solution fire control. The OICW will provide decisively violent and suppressive target effects to ~1,000 meters. The OICW provides the soldier with a 300-500% increase in hit probability to defeat point, area and defilade targets out to ~1,000 meters. It will dramatically increase soldier survivability and versatility. The OICW will replace selected M16 Rifles and M4 Carbines.

FY 2000 Accomplishments

- 2839 System Development (Government)
- 1945 PD&RR Development Contract-System Design, Analysis & Development-Weapon
- 3890 PD&RR Development Contract-System Design, Analysis & Development-Fire Control
- 1421 PD&RR Development Contract-System Design, Analysis & Development-Ammunition
- 224 PD&RR Development Contract-Testing

Total 10319

FY 2001 Planned Program

- 4131 System Development (Government)
- 5340 PD&RR Development Contract-System Design, Analysis & Development-Weapon
- 10679 PD&RR Development Contract-System Design, Analysis & Development-Fire Control
- 3900 PD&RR Development Contract-System Design, Analysis & Development-Ammunition

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FY 2001 Planned Program (Continued)

- 615 PD&RR Development Contract- Testing of the Weapon, Fire Control & Ammunition
- 7431 FY01 Congressional Plus-Up to be realigned to Tech Base PE/Project 633607.D627
- 984 Small Business Innovation Research/Small Business Technology Transfer

Total 33080

FY 2002 Planned Program

- 5460 System Development (Government)
- 6445 PD&RR Development Contract- Preliminary Design, Analysis & Development-Weapon
- 12885 PD&RR Development Contract- Preliminary Design, Analysis & Development-Fire Control
- 4708 PD&RR Development Contract-Preliminary Design, Analysis & Development-Ammunition
- 742 PD&RR Development Contract- Testing of the Weapon, Fire Control & Ammunition

Total 30240

B. Other Program Funding Summary: Not applicable for this item.

C. Acquisition Strategy: The OICW has been demonstrated in an Advanced Technology Demonstration (ATD) in FY 1999/2000. Based on the results of the ATD and the requirements of the Operational Requirements Document (ORD) for the OICW System, a decision was made to enter the PD&RR Phase rather than EMD in FY00. The PD&RR Phase (PE 603802A DAS3) is utilizing modeling and simulation, as well as, developing, building and testing three (3) full systems (with spares). A full compliment of tests will be conducted including a man-rating test. This phase will produce a near final design for the OICW, as well as, the simulators, which will form the basis of the trainers. The PD&RR Phase will be completed in FY2005. The EMD Phase (PE 604802A D134) which begins in FY 2005 will complete the final design, development and validation of the training simulators and complete the Developmental, Operational and Live Fire Tests necessary to reach Milestone III in FY2008.

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AS3

D. Schedule Profile	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Contract Preparation	3-4Q			0	0	0	0	0
System Development	4Q	1-4Q	1-4Q	0	0	0	0	0
Quality Design & Build				0	0	0	0	0
Developmental (PD&RR) Technical Testing				0	0	0	0	0
Developmental Evaluation				0	0	0	0	0

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Hardware Development	Cost plus award fee	Alliant Technology Systems	7480	20534	2Q	24780	1Q	0	0	0	0	0
Subtotal:			7480	20534		24780		0		0	0	0

II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Development Support	MIPR	Multiple	1369	2134		3190		0	0	0	0	0
b . ILS Support	MIPR	Multiple	200	170		200		0	0	0	0	0
c . Training and Sims	MIPR	Multiple	230	453		500		0	0	0	0	0
d . AMSAA	MIPR	APG	150	132		240		0	0	0	0	0
Subtotal:			1949	2889		4130		0		0	0	0

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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Developmental Technical Testing	MIPR	ATEC	400	262		350		0	0	0	0	0
Subtotal:			400	262		350		0		0	0	0
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Program Mgt	ALLOT	PMSA	460	950		950		0	0	0	0	0
b . Travel			30	30		30		0	0	0	0	0
c . *Congressional Plus-Up to be realigned			0	7431		0		0	0	0	0	0
d . SBIR/STTR			0	984		0		0	0	0	0	0
Subtotal:			490	9395		980		0		0	0	0
Project Total Cost:			10319	33080		30240		0		0	0	0