

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

June 2001

BUDGET ACTIVITY

7 - OPERATIONAL SYSTEMS DEV

PE NUMBER AND TITLE

0603778A - MLRS Product Improvement Program

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	64794	68886	111389	0	0	0	0	0	0	0
090 MLRS HIMARS	34816	51360	51145	0	0	0	0	0	0	0
093 MLRS JOINT TECH ARCHITECTURE	3213	0	12556	0	0	0	0	0	0	0
784 GUIDED MLRS	26765	17526	47688	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.

An evolutionary improvement program to maintain the effects of the Multiple Launch Rocket System (MLRS) is essential due to the expansion of regional power threats. This Product Improvement Program (PIP) provides for the maturation of a High Mobility Artillery Rocket System (HIMARS), the Joint Technical Architecture-Army (JTA-A), and the Engineering and Manufacturing Development (EMD) of a Guided MLRS (GMLRS) Rocket. The HIMARS will replace the M198 towed howitzer and allow MLRS capability to be C-130 transportable, mounting one rocket or missile pod on a 5-ton truck. It gives early entry forces immediate fire support within a hot landing zone without waiting for heavy-lift aircraft. The JTA-A will implement the capability for situational awareness in M270A1 and HIMARS launchers and trainers. A multinational GMLRS program will greatly enhance the capability of the existing MLRS, providing greater range, significantly enhanced accuracy, and interoperability among the nations covered under the MLRS Memorandum of Understanding (MOU). The improvement in accuracy and range will reduce the number of rockets required to defeat targets, thus dramatically reducing the logistics burden and increasing crew survivability. These systems support the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

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**0603778A - MLRS Product Improvement Program**

<u><b>B. Program Change Summary</b></u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	66595	59523	49475	0
Appropriated Value	67440	69523		
Adjustments to Appropriated Value				
a. Congressional General Reductions				
b. SBIR / STTR	-1792			
c. Omnibus or Other Above Threshold Reductions	-276			
d. Below Threshold Reprogramming	-9			
e. Rescissions	-569	-637		
f. Other Withholds				
Adjustments to Budget Years Since FY2001 PB			61914	
Current Budget Submit (FY 2002/2003 PB )	64794	68886	111389	0

Change Summary Explanation:

FY 02: Funds increased for HIMARS (\$20.239M), JTA-A (\$12.556M), and GMLRS (\$29.119M)

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001		
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV				PE NUMBER AND TITLE 0603778A - MLRS Product Improvement Program					PROJECT 090	
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
090 MLRS HIMARS	34816	51360	51145	0	0	0	0	0	0	0
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> The High Mobility Artillery Rocket System (HIMARS) fully supports the Army Transformation to a more deployable, affordable, and lethal force. It provides MLRS capability through a lighter weight, more deployable system in both early and forced entry scenarios. Mounted on a medium tactical wheeled vehicle, HIMARS is transportable on a C-130 aircraft, is self-locating and self-loading. It provides full MLRS and Army TACMS (ATACMS) Family of Munitions capability yet requires significantly reduced airlift resources to transport a battery as opposed to a MLRS tracked battery. HIMARS gives the 21st century force commander an ability to maneuver fires instead of forces. The current HIMARS supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP). HIMARS is the Light Force and Objective Force choice for high volume General Support and Reinforcing fire against time sensitive high payoff targets.</p> <p><b><u>FY 2000 Accomplishments</u></b></p> <ul style="list-style-type: none"> <li>28581 System Design</li> <li>1233 Government Furnished Equipment (GFE), Communications &amp; Trucks</li> <li>3846 Resupply Vehicle and Resupply Trailer Integration</li> <li>200 Preparation of Milestone Decision Documentation, Technical Assessments</li> <li>956 Development Testing</li> </ul> <p>Total 34816</p> <p><b><u>FY 2001 Planned Program</u></b></p> <ul style="list-style-type: none"> <li>49532 System Design, Test and Integration and Cost Reduction Initiatives</li> <li>130 GFE, Communications and Trucks</li> <li>1498 Development Testing (3 Test Articles)</li> <li>200 Technical Assessments and Milestone Documentation</li> </ul> <p>Total 51360</p>										

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0603778A - MLRS Product Improvement Program

PROJECT

090

## FY 2002 Planned Program

- 42022 Hardware Assembly, Contractor Development Test (CDT) and Critical Design Review (CDR)
- 8973 Extended System Integration Test (ESIT), Automotive Flight Test Series 1 & 2 and Ground Test, Resupply Vehicle and Resupply Trailer Integration Test (3 Test Articles)
- 150 Technical Assessments and Milestone Documentation

Total 51145

<u>B. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
Missile Procurement, Army	0	0	0	0	0	0	0	0	0	0
Budget Activity 3:	0	0	0	0	0	0	0	0	0	0
HIMARS Modifications (C67501)	0	0	0	0	0	0	0	0	0	0
Budget Activity 4:	0	0	0	0	0	0	0	0	0	0
HIMARS Modifications: Initial Spares (CA0289)	0	0	0	0	0	0	0	0	0	0
Initial Spares, HIMARS (CA0288)	0	0	0	0	0	0	0	0	0	0

C. Acquisition Strategy: The First Unit Equipped (FUE) is planned for FY05. The contracting strategy will be sole source.

<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Maturation IPR/Contract Award/WIU (40 months), Integrated Baseline Review (IBR)	1-3Q			0	0	0	0	0
Design IPR 1, Design IPR 2, First Launcher Delivered, Development Testing Begins		1-4Q		0	0	0	0	0
Functional Qualification Test (FQT), Functional Configurational Audit (FCA), Launcher 2-6 Delivered			1-4Q	0	0	0	0	0
LLI IPR, LRIP IPR				0	0	0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							June 2001				
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV				PE NUMBER AND TITLE 0603778A - MLRS Product Improvement Program				PROJECT 090			
D. Schedule Profile (continued)				FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY <b>7 - OPERATIONAL SYSTEMS DEV</b>					PE NUMBER AND TITLE <b>0603778A - MLRS Product Improvement Program</b>					PROJECT <b>090</b>		
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 . Risk Reduction/ Maturation Contract	SS/CPIF & CPAF	LMMFCS, TX	26804	43610		36022	1-3Q	0	0	0	0	0
b . Cab Improv./ OGA	N/A	TACOM (S&S)	3946	422		775	1-3Q	0	0	0	0	0
c . GFE,Comm,Trks & Trls	N/A	TACOM & CECOM	2105	130		250	1-3Q	0	0	0	0	0
d . Government Support	N/A	MRDEC, IMMC, RSA	3216	4136		813	1-3Q	0	0	0	0	0
Subtotal:			36071	48298		37860		0		0	0	0
Remarks: MRDEC - Msl Res, Dev & Eng Ctr, IMMC - Integ Matl Mgmt Ctr RSA - Redstone Arsenal, AL, S&S - Stewart & Stevenson LMMFCS - Lockheed Martin Missile and Fire Control System												
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 . Support Contract	C & CPFF	Camber Research, AL	377	197	2Q	150	2Q	0	0	0	0	0
Subtotal:			377	197		150		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY <b>7 - OPERATIONAL SYSTEMS DEV</b>					PE NUMBER AND TITLE <b>0603778A - MLRS Product Improvement Program</b>					PROJECT <b>090</b>		
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	N/A	APG MD,WSMR NM & RTTC RSA	2022	1498	1-3Q	11818	1-3Q	0	0	0	0	0
Subtotal:			2022	1498		11818		0		0	0	0
Remarks: APG MD - Aberdeen Proving Ground, Maryland WSMR NM - White Sands Missile Range, New Mexico RTTC RSA - Redstone Technical Test Center, Redstone Arsenal, AL												
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 . In-House Support	N/A	MLRS Proj Ofc , RSA	1661	1367	1-4Q	1317	1-4Q	0	0	0	0	0
Subtotal:			1661	1367		1317		0		0	0	0
Project Total Cost:			40131	51360		51145		0		0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							June 2001				
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV				PE NUMBER AND TITLE 0603778A - MLRS Product Improvement Program				PROJECT 093			
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
093	MLRS JOINT TECH ARCHITECTURE	3213	0	12556	0	0	0	0	0	0	0
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> The JTA-A hardware and software development effort will provide Force XXI, First Digitized Corps with a fully digitized launcher and will integrate situational awareness into the M270A1. This supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).</p> <p><b><u>FY 2000 Accomplishments</u></b></p> <ul style="list-style-type: none"> <li>2877 Developed Engineering Development Test (EDT) Units</li> <li>336 Development Testing</li> </ul> <p>Total 3213</p> <p><b><u>FY 2001 Planned Program</u></b></p> <p>Project not funded in FY 2001</p> <p><b><u>FY 2002 Planned Program</u></b></p> <ul style="list-style-type: none"> <li>11272 Conduct requirements analysis, configure prototype hardware, receive prototype common cards and begin integration testing.</li> <li>1284 Development testing</li> </ul> <p>Total 12556</p>											



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7 - OPERATIONAL SYSTEMS DEV

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0603778A - MLRS Product Improvement Program

PROJECT

093

<b>B. Other Program Funding Summary</b>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
Missile Procurement, Army	0	0	0	0	0	0	0	0	0	0
Budget Activity 2:	0	0	0	0	0	0	0	0	0	0
MLRS Launcher (C65900)	140680	186958	148294	0	0	0	0	0	0	0
Budget Activity 3:	0	0	0	0	0	0	0	0	0	0
MLRS Mods(C67500)	5791	16347	23599	0	0	0	0	0	0	0
Budget Activity 4:	0	0	0	0	0	0	0	0	0	0
MLRS Initial Spares (CA0257)	3108	6397	9979	0	0	0	0	0	0	0
MLRS Mod Initial Spares (CA0265)	3	830	862	0	0	0	0	0	0	0

**C. Acquisition Strategy:** The Joint Technical Architecture-Army (JTA-A) standards will be implemented for the M270A1 launcher to provide Force XXI capabilities for the First Digitized Corps.

<b>D. Schedule Profile</b>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Prototype hardware, system integration and test	3Q			0	0	0	0	0
Conduct rqts analysis, configure prototype h/w and receive common cards, begin integration test			2-4Q	0	0	0	0	0
Perform system integration test				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0603778A - MLRS Product Improvement Program					PROJECT 093		
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 . Contract (FBCB2 Integration)	CPAF	LMMFC Dallas, TX	4344	0		9647	1-3Q	0	0	0	0	0
b . Government Support	N/A	RDEC,IMMC,RSA	983	0		0		0	0	0	0	0
Subtotal:			5327	0		9647		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
Subtotal:			0	0		0		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0603778A - MLRS Product Improvement Program					PROJECT 093		
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	N/A	TBD	442	0		1284	1-3Q	0	0	0	0	0
Subtotal:			442	0		1284		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 . In-House Support	N/A	MLRS Proj Ofc, RSA	725	0		1625	1-4Q	0	0	0	0	0
Subtotal:			725	0		1625		0		0	0	0
Project Total Cost:			6494	0		12556		0		0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							June 2001				
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV				PE NUMBER AND TITLE 0603778A - MLRS Product Improvement Program				PROJECT 784			
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
784	GUIDED MLRS	26765	17526	47688	0	0	0	0	0	0	0
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> The Guided Multiple Launch Rocket System (GMLRS) is a precision strike, artillery rocket system. Coupled with the HIMARS launcher platform, the GMLRS provides the warfighter with a highly mobile, rapidly deployable, precision guided munition with a reduced logistics burden effective against counterfire, air defense, light materiel, and personnel targets. The GMLRS is a major upgrade to the M26 series rocket and replaces the aging M26 inventory. GMLRS will integrate a guidance and control package and a new rocket motor to achieve greater range and precision accuracy requiring fewer rockets to defeat targets than current artillery rockets. Since fewer rockets will be required to defeat a target, the logistics burden will be reduced. The GMLRS will also become the primary munition for the artillery units fielded with the M270A1 launcher. The GMLRS supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).</p> <p><b><u>FY 2000 Accomplishments</u></b></p> <ul style="list-style-type: none"> <li>• 26167 Engineering Development Test (EDT) Ground Tests, Hardware Assembly and Integration</li> <li>• 130 Technical Assessments/Evaluations and Simulation Support</li> <li>• 468 Development Testing</li> </ul> <p>Total 26765</p> <p><b><u>FY 2001 Planned Program</u></b></p> <ul style="list-style-type: none"> <li>• 15156 EDT Ground and Flight Tests, Hardware Assembly, Test Results Analysis</li> <li>• 150 Technical Assessments/Evaluations and Simulation Support</li> <li>• 1699 Development Testing (8 Test Articles)</li> <li>• 521 Small Business Innovation Research Program (SBIR) and Science and Technology Transfer (STTR)</li> </ul> <p>Total 17526</p>											

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)		June 2001
BUDGET ACTIVITY <b>7 - OPERATIONAL SYSTEMS DEV</b>	PE NUMBER AND TITLE <b>0603778A - MLRS Product Improvement Program</b>	PROJECT <b>784</b>
<p><b><u>FY 2002 Planned Program</u></b></p> <ul style="list-style-type: none"> <li>• 24807 EDT Flight Test, PQT Ground and Flight Tests, Test Results Analysis, Hardware Assembly and Prove Out</li> <li>• 10000 Qualification and Integration of an Alternative Self Destruct Fuze</li> <li>• 1800 Advanced Field Artillery Tactical Data System (AFATDS) Interface Development</li> <li>• 300 Technical Evaluations/Assessments and Support</li> <li>• 10781 Development Tests (32 Test Articles)</li> </ul> <p>Total 47688</p>		

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

June 2001

BUDGET ACTIVITY

7 - OPERATIONAL SYSTEMS DEV

PE NUMBER AND TITLE

0603778A - MLRS Product Improvement Program

PROJECT

784

<b>B. Other Program Funding Summary</b>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
Missile Procurement, Army	0	0	0	0	0	0	0	0	0	0
Budget Activity 2:	0	0	0	0	0	0	0	0	0	0
ER-MLRS (C65402)	4447	9327	0	0	0	0	0	0	0	0
GMLRS (65404)	0	0	8480	0	0	0	0	0	0	0

**C. Acquisition Strategy:** The GMLRS acquisition strategy is a streamlined product improvement program which permits entrance into Low Rate Initial Production (LRIP) and subsequent Full-Scale Production after completion of the EMD program. The primary objective of the EMD phase is to develop a rocket with greater range and significantly enhanced accuracy with minimum impact on existing MLRS companion hardware and software. This effort will incorporate the results of other development efforts for a modified submunition and increased range for a new rocket motor. The acquisition alternative most advantageous to the government is a sole source EMD contract with the system prime contractor, Lockheed Martin Missile & Fire Control Systems (LMMFCS), and maximum competition of non-developmental item (NDI) components at the vendor level.

<b>D. Schedule Profile</b>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
EDT Grd & Flt Test, CDR		1-4Q	1-3Q	0	0	0	0	0
PQT Grd Test, PQT Flt Test			2-4Q	0	0	0	0	0
Functional Configuration Audit (FCA), Facilitization IPR, Final PDDP, LRIP IPR				0	0	0	0	0
Production Validation Test (PVT) Grd & Flt Test, 1st LRIP Rocket Development				0	0	0	0	0
Initial Operational Test (IOT), Ground and Flight Test				0	0	0	0	0
MS III, FSP Contract, Initial Operational Capability (IOC)				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0603778A - MLRS Product Improvement Program					PROJECT 784		
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 . EMD Contract	SS & CPAF	LMMFCS Dallas, TX	45896	9855	1-3Q	15600	1-3Q	0	0	0	0	0
b . Government Support	N/A	RDEC, IMMC, RSA	5765	3660	1-3Q	8022	1-3Q	0	0	0	0	0
Subtotal:			51661	13515		23622		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 . Support Contract	C & CPFF	Camber Research, AL	802	188	1-3Q	556	1-3Q	0	0	0	0	0
Subtotal:			802	188		556		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0603778A - MLRS Product Improvement Program					PROJECT 784		
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	N/A	WSMR NM & Meppen,GE	979	1699	1-3Q	20781	1-3Q	0	0	0	0	0
Subtotal:			979	1699		20781		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 . In-House Support	N/A	MLRS Proj Ofc, RSA	2827	2124	1-4Q	2729	1-4Q	0	0	0	0	0
Subtotal:			2827	2124		2729		0		0	0	0
Project Total Cost:			56269	17526		47688		0		0	0	0