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BMDO RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 1999
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BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603875C International Cooperative Programs
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COST (<i>In Thousands</i>)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	0	58903	36650	36719	0	0	0	0	TBD	TBD
1161 Advanced Sensor Technology	0	12545	0	0	0	0	0	0	TBD	TBD
2259 Israeli Cooperative Project	0	46358	36650	36719	0	0	0	0	0	119727

A. Mission Description and Budget Item Justification

This program is in budget activity 4 - Demonstration and Validation, Research Category 6.3B. A new Program Element (PE) was created in accordance with provisions of H.R. 1119; SEC. 233. Cooperative Ballistic Missile Defense Program. This provision calls for the establishment of a PE to be referred to as the "Cooperative Ballistic Missile Defense Program". The purpose of this program is to support technical and analytical cooperative efforts between the United States and other nations that contribute to ballistic missile defense capabilities.

<u>B. Program Change Summary</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (<u>FY 1999 PB</u>)	0	50676	37716	37555
Congressional Adjustments		9000		
Appropriated Value		59676		
Adjustments to Appropriated Value				
a. Congressional Reductions (FFRDC, Inflation, etc)		-413		
b. OSD Reductions		-360		
c. Emergency Supplemental				
Adjustments to Budget Years Since <u>FY 1999 PB</u>				
Current Budget Submit (<u>FY 2000 / 2001 PB</u>)	0	58903	36650	36719

Change Summary Explanation:

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BUDGET ACTIVITY 4 - Demonstration and Validation				PE NUMBER AND TITLE 0603875C International Cooperative Programs					PROJECT 1161	
COST (In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
1161 Advanced Sensor Technology	0	12545	0	0	0	0	0	0	TBD	TBD
<p>A. <u>Mission Description and Budget Item Justification</u></p> <p>To prepare for critical future active defense needs, BMDO will conduct a balanced international cooperative program of high leverage technologies that yield improved capabilities across a selected range of advanced sensors, as well as advances in innovative science. The objectives of these investments are subsystems with improved performance and reduced costs for acquisition programs.</p> <p>Russian American Cooperative Programs:</p> <ul style="list-style-type: none"> The Russian American Observation Satellites (RAMOS) program is a bilateral technology program that engages Russian early warning satellite developers in the joint definition and execution of space experiments. Near-term experiments have focused on planning and executing nearly simultaneous observations of Earth features using U.S. and Russian satellites. The final phase of the near-term experiments included developing U.S. and Russian instruments for Flying Infrared Signatures Technology Aircraft (FISTA) proof-of-concept measurements. This program investigated options for future cooperation in the joint definition and execution of space experiments using space based stereo viewing. <p>FY 1998 Accomplishments:</p> <ul style="list-style-type: none"> 0 Prior to FY 1999, the RAMOS program was in BA3 - Advanced Technology Development, PE 0603173C, Support Technologies - ATD. In FY-1998 there was \$11,926 for RAMOS in BA3. Specialized infrared sensors developed by the U.S. and Russia were flown aboard the U.S. Flying Infrared Signature Technology Aircraft (FISTA) with data collected and analyzed. Additional efforts were focused on the modeling and simulation of high altitude cloud sun glint reflection and cloud and background scene structure in the mid-to-longwave infrared band. The concept design review was completed and various program execution approaches were examined. <p>Total 0</p>										
Project 1161			Page 2 of 12 Pages				Exhibit R-2A (PE 0603875C)			

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FY 1999 Planned Program:

- 12545 A policy decision has not been made on the continuance of this program and no funding has been allocated for FY-2000 and FY-2001. BMDO has carefully planned the FY 1999 efforts to make a meaningful contribution to U.S. objectives while creating value toward either outcome. The FY 1999 effort will conclude the RAMOS modeling and data analysis efforts to maximize the DoD science returns from previous RAMOS experiments. The plan encourages Russian research into their own future early warning satellites, by having the Russians begin Mid/Long Wavelength Infrared (M/LWIR) space sensor and satellite designs using non-U.S. component technologies. The FY 1999 effort will continue research into mitigation of Short Wavelength Infrared (SWIR) solar glint effects by developing a prototype design of a space hyperspectral polarimeter for future flight. In the event the decision is to cancel RAMOS, the FY 1999 efforts will still provide utility to both the U.S. and Russia. If the decision is to continue with RAMOS the FY 1999 work is fully supportive of future preliminary design.

Total 12545

FY 2000 Planned Program:

- \$0
- Total 0

A policy decision has not been made on the continuance of this program and no funding has been allocated for FY-2000 and FY-2001.

FY 2001 Planned Program:

- \$0
- Total 0

A policy decision has not been made on the continuance of this program and no funding has been allocated for FY-2000 and FY-2001.

B. <u>Other Program Funding Summary</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>FY 2004</u>	<u>FY 2005</u>	<u>To</u>	<u>Total</u>
									<u>Compl</u>	<u>Cost</u>

C. Acquisition Strategy:

The U.S. prime contractor for RAMOS is the Space Dynamics Laboratory of Utah State University, a designated University Affiliated Research Center for space sensors. SDL has a prime/subcontractor relationship with the Russians. The Russian lead is Rosvoorouzhenie, a State Company, with technical execution done by NPO Cometa and Astrophysica.

RAMOS is a cooperative experiment program designed to engage the Russians in early warning and theater missile defense related technologies. Although possessing moderately strong technical rationale and high-level political support, this program has relied mostly on Congressional plus-ups for execution.

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BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603875C International Cooperative Programs	PROJECT 1161
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D. Schedule Profile	<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>FY 2004</u>	<u>FY 2005</u>
Contract Signed	3Q								
Russian Federation Presidential Approval		2Q							
Joint U.S./Russian Obs. (MSX/MSTI/RESURS-1)	1Q, 3Q								
Polarization Measurements - FISTA	3Q, 4Q	3Q, 4Q							
Concept Design Review		2Q							
Proof of Concept Sensors - FISTA	3Q, 4Q								
Proof of Concept Demonstrations		3Q, 4Q							
Data Analysis of Previous Experiments			3Q, 4Q						
Additional FISTA Measurements			4Q						
Prototype Design of Space Hyperspectral Polarimeter			4Q						
Initiate Development of Preliminary Satellite Design			4Q						

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BMDO RDT&E COST ANALYSIS (R-3)	DATE February 1999
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BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603875C International Cooperative Programs	PROJECT 1161
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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Hardware Development	SS/CPFF	USU/SDL, Logan, UT	0	11800	Jan 99	0		0		TBD	TBD	TBD
Subtotal Product Development:				11800						TBD	TBD	TBD

Remark: Prior to FY 1999, the RAMOS program was in BA3 - Advanced Technology Development, PE 0603173C, Support Technologies – ATD

The FY-1999 funding will continue data analysis and concept design efforts in support of the possible future preliminary design process for the experiment; define the work package split between the U.S. and Russia concerning launch vehicles, integration planning, mission operations concept, and data analysis capabilities; and begin the preliminary design process for the U.S. platform and instruments.

A policy decision has not been made on the continuance of this program and no funding has been allocated for FY-2000 and FY-2001.

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Development Support	Allot	AFRL, Hanscom AFB	0	245	Jan 99	0		0		TBD	TBD	TBD
Subtotal Support Costs:				245						TBD	TBD	TBD

Remark: Prior to FY 1999, the RAMOS program was in BA3 - Advanced Technology Development, PE 0603173C, Support Technologies – ATD

The FY-1999 funding will provide for conducting FISTA aircraft measurements using U.S. instruments and the Russian 6.3-micron imaging radiometer collect, compile and analyze the data.

A policy decision has not been made on the continuance of this program and no funding has been allocated for FY-2000 and FY-2001.

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a.												
Subtotal Test and Evaluation:												

Remark:

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BMDO RDT&E COST ANALYSIS (R-3)										DATE February 1999		
BUDGET ACTIVITY 4 - Demonstration and Validation					PE NUMBER AND TITLE 0603875C International Cooperative Programs					PROJECT 1161		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Program Management Support	C/CPFF	NRC, Arlington, VA	0	500	Jan 99	0		0		TBD	TBD	TBD
Subtotal Management Services:				500						TBD	TBD	TBD
Remark: Prior to FY 1999, the RAMOS program was in BA3 - Advanced Technology Development, PE 0603173C, Support Technologies – ATD A policy decision has not been made on the continuance of this program and no funding has been allocated for FY-2000 and FY-2001.												
Project Total Cost:				12545						TBD	TBD	TBD
Remark: Prior to FY 1999, the RAMOS program was in BA3 - Advanced Technology Development, PE 0603173C, Support Technologies – ATD A policy decision has not been made on the continuance of this program and no funding has been allocated for FY-2000 and FY-2001.												

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BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603875C International Cooperative Programs	PROJECT 2259
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COST (<i>In Thousands</i>)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
2259 Israeli Cooperative Project	0	46358	36650	36719	0	0	0	0	0	119727

A. Mission Description and Budget Item Justification

This project includes the Arrow Deployability Project (ADP), the Israeli Test Bed (ITB), Israeli Cooperative Research & Development (R&D), and the Israeli System Architecture and Integration (ISA&I) Project. The U.S. derives considerable benefits from its participation in these projects. The primary benefits are in U.S. gains in technology and technical information that will reduce risks in U.S. TMD development programs. The U.S. also benefits from the eventual presence of an anti-ballistic missile defense system in Israel, which provides deterrence of future tactical ballistic missile (TBM) conflicts in that region. This defensive system also contributes to a more robust defensive response should deterrence fail.

The Arrow program consists of efforts to develop a ballistic missile defense system for Israel. It includes the U.S.-Government of Israel (GOI) initiative to assist the GOI development of an anti-tactical ballistic missile (ATBM) interceptor and launcher. The program also includes an Israeli developed fire control radar (Green Pine), fire control center (Citron tree) and launch control center (Hazelnut Tree). Comprised of three phases, this initiative began with the Arrow Experiments project (Phase I) that developed the preprototype Arrow I interceptor. Followed by the ACES project (Phase II) which is a continuation of Phase I, and consists of critical lethality tests using the upgraded Arrow II interceptor. Arrow provides the basis for an informed GOI engineering and manufacturing decision for an ATBM defense capability. If successful, the Arrow II will satisfy the Israeli requirement for an interceptor for defense of military assets and population centers and will support U.S. technology base requirements for new advanced anti-tactical ballistic missile technologies that could be incorporated into the U.S. theater missile defense (TMD) systems.

The third phase is the ADP, which began in Fiscal Year 1996. This phase of the project will pursue the research and development of technologies associated with the deployment of the Arrow Weapon System (AWS) and will permit the GOI to make a decision regarding deployment (without financial participation by the U.S. beyond the R&D stage). This effort will include system-level flight tests of the total Arrow Weapon System. An interface will be developed for AWS interoperability with U.S. TMD systems. It is planned to use the U.S. Theater Missile Defense System Exerciser (TMDSE) to conduct interactive simulation exercises to test, assess, and validate JTIDS-based interoperability between the AWS and U.S. TMD systems. Lethality, kill assessment and producibility will continue to be assessed. Subsequent U.S.-Israeli cooperative R&D on other ballistic missile defense concepts may occur in the future. The International Agreement (IA) between the U.S. and Israel for the ADP was amended in June 1998 and formalizes the U.S. addition of \$45M in FY 98 RDT&E from Congressional plus-up funds. As directed by congressional language, this increased the U.S. cost share in the ADP agreement, which permitted the GOI to withdraw an equal amount from the ADP in order to initiate Israeli procurement of additional Arrow Weapon System (AWS) battery components. The amended IA also provides a \$1M addition from the ADP to the U.S.'s Arrow Project Office (APO) to provide AWS technical support.

Since program initiation in 1988, Israel successfully improved the performance of its pre-prototype Arrow I interceptor to the point that it achieved a successful intercept and target destruction in June 1994. Arrow II design and component testing progressed to the successful demonstration of the new warhead, electro-optical

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<p>seeker, radar fuse, first stage booster, sustainer booster, launcher canister, and launcher. The ADP International Agreement was signed in March 1996 and Presidential certification was completed in May 1996.</p> <p>The ITB Program is a medium-to-high fidelity theater missile defense simulation that provides the capability to evaluate potential Israeli missile defenses, aids the Israeli Ministry of Defense (IMOD) in the decision of which defense systems to field, provides insights into command and control in TMD, and trains personnel to function in a TMD environment. A structured set of joint U.S./Israeli experiments is being executed to evaluate the role of missile defenses in both mature and contingency Middle East theater operations. This funding also provides for a portion of the operation and maintenance of the ITB and for planned enhancements. Completed experiments identified additional enhancements needed to improve the ITB as an analysis tool. The enhancements incorporated in the ITB to date include radar and weapons models, and a Boost Phase Intercept (BPI) simulation capability. The BPI enhancement benefited the Israeli BPI study completed in January 1996. The Adaptive Battle Management Center (ABMC) enhancement benefits the U.S. by enabling the ITB to simulate a wide variety of command and control and interoperability issues. The planned inclusion of the Distributed Interactive Simulation (DIS) will enable joint exercise experiments to be conducted both in Israel and across the water between US TMD and IS TMD systems.</p> <p>ITB experiments are used to validate the performance of the prospective near-term Israel Theater Missile Defense System and provides valuable insight into the potential role of Human-In-The-Loop (HIL) for a TMD system. The ITB is being used to determine Combined Standard Operating Procedures (CSOP) between the US European Command (USEUCOM) and Israel for TMD. Early warfighter activities in developing the CSOP at the ITB were invaluable during U.S contingency operations in late FY 98.</p> <p>The Israeli Cooperative R&D program supports the advancement of emerging TMD technologies. This support will advance the technology demonstration phase, which will provide for the defense of the State of Israel. It further supports the U.S. technology base needs for these technologies, and furthers the pursuit of interoperability with U.S. TBMD systems. This task supports efforts in developing an interface to allow for interoperability between Israeli TMD systems and U.S. TBMD systems and the implementation of such a system.</p> <p>The ISA&I tasks provide ongoing analysis and assessment of the baseline, evolutionary, and responsive threats to support the definition and evaluation of an initial Israeli Reference Missile Architecture (IRMA), a baseline missile configuration. Evolutionary growth paths to enhance the IRMA robustness against future threats will be identified. Critical TMD system architecture issues and technologies will be analyzed, and the conformance to established requirements of various Israeli anti-tactical ballistic missile (ATBM) programs, including the Arrow missile development activity, the ADP, and the ITB will be conducted. Finally, previously developed simulations and models will be used selectively to address significant TMD issues. Collectively, the tasks conducted under this cooperatively sponsored ISA&I project will provide critical insights and technical data to both the U.S. and Israeli governments for improving near-term and evolutionary defenses against ballistic missile threats.</p> <p>The ISA&I Project activities demonstrated that defense of the State of Israel from tactical ballistic missile (TBM) attacks is necessary, feasible and cost-effective. The ISA&I effort analyzed and addressed numerous TMD system issues including HIL, resource allocation, and threat analysis. The U.S. benefited from the architecture analysis work, including identification and progress toward resolution of critical TMD system issues such as kill assessment and the lethality study of a novel interceptor warhead.</p>		
Project 2259	<i>Page 8 of 12 Pages</i>	Exhibit R-2A (PE 0603875C)

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BMDO RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)		DATE
BUDGET ACTIVITY 4 - Demonstration and Validation		February 1999
PE NUMBER AND TITLE 0603875C International Cooperative Programs		PROJECT 2259
<p>FY 1998 Accomplishments:</p> <ul style="list-style-type: none"> Accomplished under PE 0603872C <p>Total 0</p>		
<p>FY 1999 Planned Program:</p> <ul style="list-style-type: none"> 42903 Arrow Deployability Project and Support. Continue AWS integrated flight and intercept tests. Evaluate U.S. and Arrow components for electro-magnetic interference. Transfer the results of the AWS tests to U.S. TMD interceptor developers. Continue interoperability, lethality, kill assessment and producibility studies leading to an initial Israeli operational capability. Conduct Arrow Link-16 Upgrade Converter (ALUC) Proof of Concept II (APOC II). Develop and begin testing of a US/Israeli interoperability capability. 1869 Continue ITB experiments on near-term improvements to the Israeli TMD system and on deployability. Provide improved threat model and Arrow II enhancements. Continue supporting U.S. EUCOM/IAF CSOP requirements and the potential for ITB II experiments. 1449 ISA&I. Analyze results of ITB Interoperability experiments. Continue evaluations of the performance of the near-term TMD system based on ADP system flight tests. Continue analysis of TMD refinements for future threats such as the evolving Iranian MRBM threat. 137 Government Personnel and Support <p>Total 46358</p>		
<p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> 33269 Arrow Deployability Project and Support. Continue AWS integrated flight tests. Evaluate U.S. and Arrow components for electro-magnetic interference. Transfer the results of the AWS tests to U.S. TMD interceptor developers. Continue interoperability, lethality, kill assessment and producibility studies leading to an Israeli operational capability. Conduct Arrow Link-16 Upgrade Converter (ALUC) Proof of Concept I (APOC I). Develop and test US/Israeli interoperability capability using the Theater Missile Defense System Exerciser (TMDSE). Conduct distributed interactive simulation experiments. 1827 Continue ITB experiments on near-term improvements to the Arrow TMD system deployability. Provide improved threat model and Arrow II update enhancements. Support U.S. EUCOM/IAF CSOP and CINC EUCOM exercise requirements if feasible within budget. 1416 ISA&I. Analyze results of ITB Interoperability experiments. Continue evaluations of the performance of the near- and far-term TMD system based on ADP system flight tests and evolving regional threats. Continue analysis of TMD system refinements necessary to defeat future threats such as the evolving Iranian MRBM threat 138 Government Personnel and Support <p>Total 36650</p>		
<p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> 33333 Arrow Deployability Project and Support. Complete ADP. Continue to transfer system development and flight test results to U.S. TMD interceptor developers. Continue activities for achieving interoperability, lethality, and high confidence kill assessment. Complete Arrow Link-16 Upgrade Converter (ALUC) development and test program to fully achieve Arrow interoperability with U.S. TMD systems. 		
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BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603875C International Cooperative Programs	PROJECT 2259
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- 1831 Continue ITB experiments related to the operational Arrow TMD system deployability. Provide improved threat model and Arrow II update enhancements. Support U.S. EUCOM/IAF CSOP development and CINC EUCOM exercise requirements if feasible within budget.
 - 1418 ISA&I. Analyze results of ITB Interoperability experiments. Continue evaluations of the performance of the AWS. Continue analysis of TMD refinements for future emerging threats
 - 137 Government Personnel and Support
- Total 36719

B. Other Program Funding Summary	<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>FY 2004</u>	<u>FY 2005</u>	<u>To Compl</u>	<u>Total Cost</u>
3359 - TMDSE Development, PEs 0603872C/0603873C	14920	12850	13426	12164	12119	12074	12340	12611		

C. Acquisition Strategy: This is an ongoing cooperative U.S./GOI development program. By completing the Arrow Deployability Project, U.S. TMD programs will be afforded state-of-the-art technical data for program risk reduction and the GOI will have developed information to make a sound Arrow Weapon System deployment decision. Through the ADP, interoperability between the AWS and U.S. TMD systems will be achieved. The planned ISA&I and ITB efforts will continue to refine the operational tactics and techniques of the fielded near-term TMD system. The U.S. and the GOI, under the umbrella of the various Memoranda of Agreements, share project costs. The U.S. share of total funding is based upon the maturity of the development. Each contract associated with the individual projects is a firm-fixed price (FFP) contract.

D. Schedule Profile	<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>FY 2004</u>	<u>FY 2005</u>
Complete ITB Enhancements	2 Q	3 Q	1 Q						
Initiate Interoperability Requirements	1 Q								
U.S./Israel ADP First Amendment Signed		2 Q							
U.S./Israel ADP Seconded Amendment Signed		3 Q							
Complete Arrow II ACES Flight Test		4 Q							
Arrow Weapon System Flight Tests		4Q	4Q	2Q & 4Q	2Q				
Initiate Interoperability Tests (APOC I)		2 Q							
Conduct APOC II		4 Q							
Interoperability Tests w/ U.S. TMDSE			2 Q	1 Q					
U.S. Benefits Review			4 Q						
Complete ADP, ITB, and ISA&I					4 Q				

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BMDO RDT&E COST ANALYSIS (R-3)

DATE **February 1999**

BUDGET ACTIVITY
4 - Demonstration and Validation

PE NUMBER AND TITLE
0603875C International Cooperative Programs

PROJECT
2259

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. ADP Development	International Agreement with Israel	Israel Ministry of Defense, Israel		39976		30365		30411			100752	
b. ISA&I	FFP with Cost Share	Wales, Ltd., Israel		1449		1416		1418			4283	
c. ITB	FFP	USA/SMDC Huntsville, AL		1869		1827		1831			5527	
d. Gov Personnel & Spt	Direct Funding	USA/SMDC Huntsville, AL		137		138		137			412	
Subtotal Product Development:				43431		33746		33797			110974	

Remark:
Prior year cost were incurred under PE 060372C

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. ADP Arrow Project Office	Direct Funding	PEO/AMD		2927	N/A	2904	N/A	2922	N/A		8753	
Subtotal Support Costs:				2927		2904		2922			8753	

Remark:

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. N/A												
Subtotal Test and Evaluation:												

Remark:

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BUDGET ACTIVITY 4 - Demonstration and Validation					PE NUMBER AND TITLE 0603875C International Cooperative Programs					PROJECT 2259		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. N/A												
Subtotal Management Services:												
Remark:												
Project Total Cost:						46358		36650		36719		119727
Remark:												