

UNCLASSIFIED

PE NUMBER: 1001004F
 PE TITLE: International Activities

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2004
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BUDGET ACTIVITY 06 RDT&E Management Support	PE NUMBER AND TITLE 1001004F International Activities
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Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	3.640	3.834	3.945	4.026	4.099	4.164	4.228	0.000	0.000
4645 International Cooperative Research & Development	3.640	3.834	3.945	4.026	4.099	4.164	4.228	0.000	0.000

(U) A. Mission Description and Budget Item Justification

The mission of this program is to gain access to our Allies' best defense technologies, eliminate costly duplication of Research and Development (R&D) efforts, accelerate availability of defense systems, and to deploy and sustain common or interoperable USAF and Allied equipment through International Cooperative Research and Development (ICR&D).

The USAF is party to multiple international cooperative agreements to solve common US and Allied military scientific and technological problems and to develop materiel solutions to harmonize coalition requirements. This program funds the USAF to support, develop, process, negotiate, implement, and manage these international cooperative agreements and projects in compliance with statutory reporting provisions and exacting legal statutes, fiscal constraints, technology transfer controls, intellectual property rights, third party transfer provisions, quid-pro-quo criteria, industrial base factors, and political-military interests. Included in this budget are domestic and international technology assessment teams; specialized working groups; Long-Term Technology Project developments; support for cooperative opportunity assessments; developing, processing, negotiating and managing international agreements; oversight of ICR&D projects; overseas R&D liaison and coordination offices; bilateral and multilateral staff talks; Engineering and Scientist Exchange Program (ESEP); and Administrative and Professional Exchange Program (APEP). Funds USAF participation in the NATO Air Force Armaments Group (NAFAG) and NATO Research and Technology Organization (RTO).

This program is in Budget Activity 6, Management and Support, because the funding provides for general R&D Management support for all aspects of ICR&D activities in the USAF.

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(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	3.772	3.867	3.955
(U) Current PBR/President's Budget	3.640	3.834	3.945
(U) Total Adjustments	-0.132	-0.033	
(U) Congressional Program Reductions			
Congressional Rescissions	-0.064		
Congressional Increases			
Reprogrammings	-0.068	-0.033	
SBIR/STTR Transfer			
(U) <u>Significant Program Changes:</u>			
N/A			

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Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
4645 International Cooperative Research & Development	3.640	3.834	3.945	4.026	4.099	4.164	4.228	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

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(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) NC3A - Funds the US R&D Coordination Office and administrative support for the assigned US Engineering and Technical professionals and cooperative Research and Development activities assigned to the NC3A.	0.100	0.100	0.100
(U) ESEP/APEP - Funds the USAF execution and the management oversight of ESEP and APEP agreements. Funds approximately eight to ten field level military and civilian personnel from AFMC Facilities, Product Centers, Test Centers, Logistic Centers, and the Academy for two-year tours at selected European and Asian government laboratories or other institutions. In FY05, the USAF will have signed ESEP agreements with 16 countries and be in negotiation with at least 4 other countries. In FY05, the USAF will have signed APEP agreements with 2 countries and be in negotiatic with at least one other country.	0.200	0.220	0.200
(U) ICR&D - Funds USAF overseas R&D liaison offices. Funds management support and oversight of International Affairs Armaments Cooperation Division (SAF/IAPQ), AFMC and NATO Cooperative R&D Program. Funds USAF	2.420	2.589	2.690

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participation at the NATO Five-Power Forum, NAFAG, and its subgroups to promote NATO harmonization of requirements, standardization, and new cooperative R&D programs. Funds USAF participation at the US-Japan System and Technology Forum and Defense Cooperation Committee Meetings with Singapore and South Korea. Partially fund technical assessments and international agreements negotiation start-up costs associated with promising cooperative R&D programs. Funds upgrades to the DoD International Agreements Management System. Funds negotiation and support costs associated with the NATO AWACS Board of Directors. Funds AFMC activities to identify, assess, develop, and report International Cooperative Agreements as required by statute for new and existing projects. Support AFMC activities for the International Cooperative R&D Program. Funds AFMC participation in panel meetings of the Technical Coordination Program (TTCP), Air Standardization Coordinating Committee and NATO Conference of National Armaments Directors (CNAD) Working Groups. Funds periodic bilateral/multilateral meetings to define new areas of possible cooperation and exploratory visits to United Kingdom, Australia, Canada, Poland, Spain, Israel, Singapore, Sweden and other countries on new technology exchange projects. Funds the efforts of project engineers and scientists at AFMC subordinate units to identify, create, and staff new international cooperative agreements.

(U) Armaments Cooperation - Funds the USAF's ability to develop and negotiate the increasing number of proposals for ICR&D bi-lateral and multi-lateral Agreements with key allies. Work will continue on agreements developed, but not signed, during FY04 and work will be initiated in the areas of: Reconnaissance and Surveillance; Global Positioning Satellites; SATCOM; Space Surveillance; Ground Based Relay Stations; Unmanned Combat Aerial Vehicles; Munitions; Airborne Radar; Early Warning Systems; Counter Air Weapons; Command and Control; Biological Warfare Protection; Distributed Simulation Technology; Laser Technology; Human Factors; Propulsion; and Wind Tunnel Design.	0.770	0.800	0.830
(U) NATO RTO - Funds USAF participation in the NATO RTO activities. The FY04/05 activities will include but are not limited to: 1) Mitigation and Control of High Cycle Fatigue; 2) Critical Technologies for Hypersonic Vehicle Development; 3) Unmanned Material Vehicles as Force Multipliers; 4) Network Centric Operations Security; 5) Test and Evaluation of Precision Airdrop Systems; 6) Information and Knowledge; 7) Mission Management; and 8) Sensors, Electronics, Processing and Components.	0.150	0.125	0.125
(U) Total Cost	3.640	3.834	3.945

(U) **C. Other Program Funding Summary (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) N/A									

(U) **D. Acquisition Strategy**

This program element is the only source of USAF funds to identify and initiate opportunities for international armaments cooperation to (a) deploy and support common or interoperable equipment with our allies; (b) leverage USAF resources with our allies through cost sharing and economies of scale; and (c) exploit the best US and allied

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technologies for equipping coalition forces. We obtain these benefits only after international cooperative opportunities are identified, explored, developed, assessed and international agreements are negotiated and concluded. This PE provides funds to execute up-front armaments cooperation responsibilities, realize cooperative opportunities, assess allied technologies, and generate sound, cost-effective cooperative programs between the USAF and our international partners. Once these initiatives and programs are started as international efforts they are transferred to the appropriate technology or systems program office and are funded by the program office.