PE NUMBER: 1001004F
PE TITLE: International Activities

Exhibit R-2, RDT&E Budget Item Justification							DATE F	February 2005			
BUDGET ACTIVITY 06 RDT&E Management Support					PE NUMBER AND TITLE 1001004F International Activities						
	Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
	Total Program Element (PE) Cost	3.594	3.910	3.739	3.867	3.939	4.006	4.099	4.175	Continuing	TBD
4645	International Cooperative Research & Development	3.594	3.910	3.739	3.867	3.939	4.006	4.099	4.175	Continuing	TBD

(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 Research and Technology Organization (RTO). Funding in support of International Space Cooperation.

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

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

1		<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U	Previous President's Budget	3.834	3.945	4.026	4.099
(U	Current PBR/President's Budget	3.594	3.910	3.739	3.867
(U	7) Total Adjustments	-0.240	-0.035		
(U	Congressional Program Reductions				
	Congressional Rescissions				
	Congressional Increases				
	Reprogrammings	-0.240	-0.035		
	SBIR/STTR Transfer				
α	() Significant Program Changes:				

(U) <u>Significant Program Changes</u>

N/A

R-1 Shopping List - Item No. 117-1 of 117-4

Exhibit R-2 (PE 1001004F)

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Exhibit R-2a, RDT&E Project Justification								DATE	February 2005		
BUDGET ACTIVITY 06 RDT&E Management Support					1001004F International Activities 46			PROJECT NUMBER AND TITLE 4645 International Cooperative Research & Development			
	Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
4645	International Cooperative Research & Development		3.910	3.739	3.867		4.006	4.099			TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(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 Research and Technology Organization (RTO). Funding in support of International Space Cooperation.

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

J)	U) B. Accomplishments/Planned Program (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
J)	U) NC3A - Funds the US R&D Coordination Office and administrative support for the assigned US	0.100	0.100	0.100	0.000
П	Engineering and Technical professionals and cooperative Research and Development activities assigned				
	to the NC3A.				
J)	U) ESEP/APEP - Funds the USAF execution and the management oversight of ESEP and APEP agreements.	0.175	0.175	0.175	0.175
ı	Funds approximately eight to ten field level military and civilian personnel from AFMC Facilities,				
ı	Product Centers, Test Centers, Logistic Centers, and the Academy for two-year tours at selected				
	European and Asian government laboratories or other institutions. By FY06, the USAF will have signed				
	ESEP agreements with 18 countries and be in negotiation with an additional 3 countries. By FY06, the				
	USAF will have signed APEP agreements with 2 countries and be in negotiations with at least one other				
	country.				
J)	U) ICR&D - Funds USAF overseas R&D liaison offices. Funds management support and oversight of	1.799	2.140	1.994	2.222
	International Affairs Armaments Cooperation Division (SAF/IAPQ). Funds USAF participation at the				
	Project 4645 R-1 Shopping List - Item No. 117-2 of 117-4			Exhibit R-2a (F	PE 1001004F)

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Exhibit R-2a, RDT&E Project	DATE	DATE February 2005			
BUDGET ACTIVITY 06 RDT&E Management Support	PE NUMBER AND TITLE 1001004F Internationa	al Activities	PROJECT NUMBER AND TITLE 4645 International Cooperative Research & Development		
NATO Five-Power Forum to promote NATO harmonization of requirements, so cooperative R&D programs. Funds USAF participation at the US-Japan System and Defense Cooperation Committee Meetings with Singapore and South Korea technical assessments and international agreements negotiation start-up costs as cooperative R&D programs. Funds upgrades to the DoD International Agreeme Funds negotiation and support costs associated with the NATO AWACS Board periodic bilateral/multilateral meetings to define new areas of possible cooperat to Brazil, Czech Republic, Denmark, India, Israel, Italy, Netherlands, Poland, P Sweden, Taiwan, Ukraine, and other countries on new technology exchange pro (U) Armaments Cooperation - Funds the USAF's ability to develop and negotiate the	ns and Technology Forum a. Partially funds associated with promising ents Management System. I of Directors. Funds tion and exploratory visits fortugal, Spain, Singapore, ojects.	0.800	0.800	0.800	0.800
proposals for ICR&D bi-lateral and multi-lateral Agreements with key allies. V agreements developed, but not signed, during FY05 and work will be initiated i Communication and Information; Interoperability; Coalition Warfare; Reconnated Global Positioning Satellites; SATCOM; Space Surveillance; Ground Based Recombat Air System; Airborne Radar; Early Warning Systems; Counter Air West Control; Biological Warfare Protection; Distributed Simulation Technology; No Laser Technology; Propulsion; Directed-Energy Technology; and Electromagnets	n the areas of: issance and Surveillance; elay Stations; Unmanned apons; Command and on-lethal Technologies; etic Technology.				
(U) AFRL - Funds support and oversight of International Armaments Cooperation I Air Force Research Laboratories (AFRL). Funds AFRL technical assessments identify, create, and develop promising cooperative R&D programs. Funds AF meetings of The Technical Coordination Program (TTCP), Air Standardization and NATO Conference of National Armaments Directors (CNAD) Working Gr	and discussions to MC participation in panel Coordinating Committee	0.600	0.600	0.600	0.600
(U) NATO RTO - Funds USAF participation in the NATO RTO activities. The FY include but are not limited to: 1) Mitigation and Control of High Cycle Fatigue for Hypersonic Vehicle Development; 3) Unmanned Material Vehicles as Force Centric Operations Security; 5) Testing of Precision Airdrop Systems; 6) Inform Mission Management; and 8) Sensors, Electronics, Processing and Components	e; 2) Critical Technologies e Multipliers; 4) Network mation and Knowledge; 7)	0.075	0.050	0.025	0.025
(U) International Space Cooperation - New and growing mission requirement to be International Activities. Funds research and development cooperation to provid which to develop operational strategies, concepts, and technologies with our all a foundation for long-term operational cooperation. Cooperation with our allie USAF to geographically distributed ground systems and provides invaluable action test and evaluation of space systems	supported by the le a foundation upon ies which in turn provides es in space will allow the	0.045	0.045	0.045	0.045
(U) Total Cost		3.594	3.910	3.739	3.867
Project 4645 R-1 Shopping L	ist - Item No. 117-3 of 117-4			Exhibit R-2a (P	E 1001004F)

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DATE Exhibit R-2a, RDT&E Project Justification February 2005 BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT NUMBER AND TITLE 06 RDT&E Management Support 1001004F International Activities 4645 International Cooperative Research & Development (U) C. Other Program Funding Summary (\$ in Millions) FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011

Estimate

Estimate

Estimate

Estimate

Estimate

(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 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 then funded by the program office.

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Estimate

Actual

Estimate

Exhibit R-2a (PE 1001004F)

Total Cost