

UNCLASSIFIED

PE NUMBER: 1001004F
 PE TITLE: International Activities

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2008
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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 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	3.787	4.016	3.910	3.812	3.867	3.932	4.003	Continuing	TBD
4645 International Cooperative Research & Development	3.787	4.016	3.910	3.812	3.867	3.932	4.003	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 element funds the USAF to discover, 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 international technology assessment teams; space cooperation; specialized working groups; Research Technology Project development; NATO Research and Technology Organization; Air Senior National Representative activities; support for cooperative opportunity assessments; developing, processing, negotiating and managing international agreements; oversight of ICR&D projects; program reviews; overseas R&D liaison and coordination offices; bilateral and multilateral staff talks; USAF displays at International Trade Shows to promote cooperation and interoperability activities; Engineering and Scientist Exchange Program (ESEP); and Administrative and Professional Exchange Program (APEP).

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.

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	3.896	4.041	4.124
(U) Current PBR/President's Budget	3.787	4.016	3.910
(U) Total Adjustments	-0.109		
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-0.109		
(U) <u>Significant Program Changes:</u>			
N/A			

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Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
4645 International Cooperative Research & Development	3.787	4.016	3.910	3.812	3.867	3.932	4.003	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

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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 element funds the USAF to discover, 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 international technology assessment teams; space cooperation; specialized working groups; Research Technology Project development; NATO Research and Technology Organization; Air Senior National Representative activities; support for cooperative opportunity assessments; developing, processing, negotiating and managing international agreements; oversight of ICR&D projects; program reviews; overseas R&D liaison and coordination offices; bilateral and multilateral staff talks; USAF displays at International Trade Shows to promote cooperation and interoperability activities; Engineering and Scientist Exchange Program (ESEP); and Administrative and Professional Exchange Program (APEP).

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. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</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.	0.030	0.000	0.000
(U) ESEP/APEP - Funds the USAF execution and management oversight of ESEP and APEP agreements. Funds eight to ten field level military and civilian personnel from AFMC Facilities, Product Centers, Test Centers, Logistic Centers, and the Academy for tours at selected European and Asian government laboratories or other institutions. By FY09, the USAF will have signed ESEP agreements with 18 countries, signed APEP agreements with 1 country and be in negotiations with at least 4 other countries for the Exchange of Defense Professional Personnel (EDPP) which is one agreement that allows for the exchange of engineers, scientist and administrative personnel.	0.300	0.300	0.300
(U) ICR&D - Funds USAF overseas R&D liaison offices. Funds management support and oversight of International Affairs Armaments Cooperation Division (SAF/IAPQ). Funds USAF participation in NATO Forums to promote	2.206	2.441	2.524

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Project 4645

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

NATO harmonization of requirements, standardization, and new cooperative R&D programs. Funds USAF support and participation in OSD bi-lateral Acquisition forums. Funds technical assessments and international agreements negotiation start-up costs associated with promising cooperative R&D programs. Funds USAF efforts to expand existing relationships and technology development activities with: Australian, Canada, Denmark, France, Germany, Italy, Japan, NATO, Netherlands, Norway, South Korea, Singapore, Spain, Sweden, and UK. Funds USAF participation in initiating ICR&D relationships and activities with: Brazil, Poland, Chile, Czech Republic, India, South Africa and Turkey.

FY 2007 FY 2008 FY 2009

(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 FY08 in the areas of: materials and composites, human effectiveness, nanotechnology, coalition information sharing, biomimetics, virtual munitions design, hypersonics, alternative energy, IED defeat, distributed mission operations, lasers, unmanned air systems, reconnaissance and surveillance, command and control, electronic warfare, space surveillance, satellite communication, hyperspectral imaging. 0.751 0.875 0.686

(U) Air Force Material Command (AFMC) - Funds support and oversight of International Armaments Cooperation R&D efforts within the Air Force Research Laboratories (AFRL). Funds AFRL support of technical assessments and discussions to identify, create, and develop promising cooperative R&D programs. Funds AFRL participation in meetings of the Technical Coordination Program (TTCP) and NATO Research and Technology Organization. 0.400 0.300 0.300

(U) International Space Cooperation - Existing and expanding mission requirement to be supported by the International Activities. Funds research and development cooperation to provide a foundation upon which to develop operational strategies, concepts, and technologies with our allies, which in turn provides foundation for long-term operational cooperation. Cooperation with our allies in space will allow the USAF to geographically distribute ground systems and provides invaluable access to remote test ranges for test and evaluation of space systems. 0.100 0.100 0.100

(U) Total Cost 3.787 4.016 3.910

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</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

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**4645 International Cooperative
Research & Development**

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.