

UNCLASSIFIED

PE NUMBER: 1001004F
PE TITLE: International Activities

Exhibit R-2, RDT&E Budget Item Justification									DATE May 2009		
BUDGET ACTIVITY 06 RDT&E Management Support					PE NUMBER AND TITLE 1001004F International Activities						
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total	
Total Program Element (PE) Cost	3.903	3.899	3.748	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4645 International Cooperative Research & Development	3.903	3.899	3.748	0.000	0.000	0.000	0.000	0.000	0.000	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, develop materiel solutions to harmonize coalition requirements and build interoperability with our coalition partners. 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; 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 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.

R-1 Line Item No. 113
 Page-1 of 5
 Exhibit R-2 (PE 1001004F)

Exhibit R-2, RDT&E Budget Item Justification

DATE

May 2009

BUDGET ACTIVITY

06 RDT&E Management Support

PE NUMBER AND TITLE

1001004F International Activities

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	3.903	3.899	3.812
(U) Current PBR/President's Budget	3.903	3.899	3.748
(U) Total Adjustments	0.000	0.000	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
(U) <u>Significant Program Changes:</u>			
N/A			

Exhibit R-2a, RDT&E Project Justification								DATE May 2009		
BUDGET ACTIVITY 06 RDT&E Management Support					PE NUMBER AND TITLE 1001004F International Activities			PROJECT NUMBER AND TITLE 4645 International Cooperative Research & Development		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
4645 International Cooperative Research & Development	3.903	3.899	3.748	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

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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 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(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.	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 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, technology development activities and interoperability issues with: Australian, Canada, Denmark, France, Germany, India, Israel, Italy, Japan, NATO, Netherlands, Norway, South Korea, Singapore, Spain,	2.328	2.488	2.383

Project 4645
R-1 Line Item No. 113
Page-3 of 5
Exhibit R-2a (PE 1001004F)

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BUDGET ACTIVITY 06 RDT&E Management Support				PE NUMBER AND TITLE 1001004F International Activities			PROJECT NUMBER AND TITLE 4645 International Cooperative Research & Development						
(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>							<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>				
Sweden, and UK. Funds USAF participation in initiating ICR&D relationships and activities with: Brazil, Poland, Chile, Czech Republic, India, South Africa and Turkey.													
(U) Armaments Cooperation - Funds the USAF's ability to develop and negotiate the increasing number of proposals for ICRD&A bi-lateral and multi-lateral Agreements with key allies. Work will continue on agreements developed, but not signed, during FY09 in the areas of: materials and composites, human effectiveness, robotics, nanotechnology, coalition information sharing, biometrics, virtual munitions design, hypersonics, alternative energy, IED defeat, WMD defeat, distributed mission operations, lasers, unmanned air systems, reconnaissance and surveillance, command and control, capabilities, interoperability and systems level programs.							0.875	0.686	0.750				
(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.							0.300	0.300	0.250				
(U) International Space Cooperation - Funds research and development activities to provide a foundation upon which to develop operational strategies, concepts of operations, tactics techniques and procedures, and technologies and prototype systems with our allies, which in turn provides foundation for long-term, full spectrum operational cooperation.							0.100	0.081	0.065				
Space cooperation with our allies enables the USAF access to critical geography for distributed ground systems, and remote test ranges for test and evaluation of space capabilities in electronically challenged environments, as well as joint development and acquisition of space systems.													
(U) Cyberspace Cooperation - Funds establishing cooperative relationships with allies in cyberspace missions to ensure interoperability, sharing of information on threats, and developing new capabilities to defeat threats to our critical information systems. Supports integration of air, space, and cyberspace capabilities to create global effects.							0.000	0.044	0.000				
Cyberspace requires significant research and development efforts and responsiveness to avoid technological surprise.													
(U) Total Cost							3.903	3.899	3.748				
(U) <u>C. Other Program Funding Summary (\$ in Millions)</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>FY 2014</u>	<u>FY 2015</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>Estimate</u>	<u>Complete</u>	
(U) N/A													
(U) <u>D. Acquisition Strategy</u>													
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													

Project 4645

R-1 Line Item No. 113
Page-4 of 5

Exhibit R-2a (PE 1001004F)

Exhibit R-2a, RDT&E Project Justification		DATE May 2009
BUDGET ACTIVITY 06 RDT&E Management Support	PE NUMBER AND TITLE 1001004F International Activities	PROJECT NUMBER AND TITLE 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, assessed, developed 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.		
Project 4645 R-1 Line Item No. 113 Page-5 of 5 Exhibit R-2a (PE 1001004F)		