

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)	DATE February 2002
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BUDGET ACTIVITY 06 - Management and Support	PE NUMBER AND TITLE 1001004F International Activities	PROJECT 4645
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COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4645 International Cooperative Research & Development	3,574	3,808	3,878	3,945	4,016	4,137	4,216	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

(U) **A. Mission Description**
 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 (LTTP) 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).

(U) **FY 2001 (\$ in Thousands)**

(U) \$100 NATO Command, Control, and Communications Agency (NC3A) - Funded the US R&D Coordination Office and administrative support for the assigned US Engineering and Technical professionals and cooperative R&D activities.

(U) \$170 ESEP/APEP - Funded the USAF execution and the management oversight of ESEP agreements. Funded approximately eight field level military and civilians from Air Force Research Laboratory (AFRL), Product Centers, Test Centers and Air Logistics Centers (ALCs) for two year tours at selected European and Asian government laboratories or other institutions. ESEP agreements are signed with 14 countries and under negotiation with 5 other countries.

(U) \$1,964 ICR&D - Funded USAF overseas R&D liaison offices. Funded management support and oversight of International Affairs Armaments Cooperation Division (SAF/IAPQ), AFMC, FCT and NATO Cooperative R&D Program. Funded USAF participation at the NATO

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06 - Management and Support	1001004F International Activities	4645
(U) <u>A. Mission Description Continued</u>		
(U) <u>FY 2001 (\$ in Thousands) Continued</u>		
	Four-Power Forum, NAFAG, and its subgroups to promote NATO harmonization of requirements, standardization, and new cooperative R&D programs. Funded USAF participation at the US-Japan Systems and Technology Forum and Defense Cooperation Committee Meetings with Singapore and South Korea. Funded expanded technology acquisition contracts and follow-on cooperative opportunities with Russia, Ukraine, and Eastern Europe. Partially funds technical assessments and international agreements negotiation start-up costs associated with promising cooperative R&D programs. Funded upgrades to the DoD International Agreements Management System. Funded continued development of phase 1 of the USAF CPIMS. Funded negotiation and support costs associated with the NATO AWACS Board of Directors. Funded ICOG efforts to harmonize Four-power requirements and initiate agreements to explore these opportunities.	
(U) \$400	Armaments Cooperation - Funded the USAF to process the rapidly increasing number of proposals for ICR&D agreements. Work continued on agreements developed, but not signed, during FY00 and work initiated in the following areas of interest and others resulting from prior year technology assessments: Asia: Unmanned Aerial Vehicles, Early Warning Systems, Theater Missile Defense, Satellites, Command, Control, Communication, Computer, Information and Intelligence, Effects on Global Positioning Systems; Europe: Distributed Simulation Technology, Unmanned Aerial Vehicles, Aging Aircraft, Programmable Integrated Ordinance Suite, Agent Defeat Weapon, Joint Targeting Tool, Satellites, Space, Environmental Issues; Middle East: Intelligence, Sensors, Monitoring of Chemical/Biological Warfare; Central and South America: Monitoring of Chemical/Biological Warfare, Satellites, Space, Environmental Issues.	
(U) \$200	NATO RTO - Funded USAF participation in the NATO RTO panel activities. The FY01 program of work will consist of studies, technical exchanges, and reports in the following areas: (1) Operational and Technical Studies and Analysis, (2) Modeling and Simulation, (3) Advanced System Concepts, Integration and Engineering Techniques Across the Spectrum of Platforms and Operating Environments, (4) Affordable Electronics, (5) Active and Passive Sensors, (6) Information Warfare Systems, (7) Communication and Networks, (8) Improved Performance, Affordability, and Safety of Vehicle, Platform, Propulsion, and Power Systems, (9) Optimize Performance, Health, Well Being and Safety of the Human in Operational Environments with consideration of Affordability. Continues Partnership for Peace initiative through the R&T outreach program with scientists and engineers from the former Soviet Union and Central Europe.	
(U) \$740	Air Force Material Command (AFMC) - Funded AFMC activities to identify, assess, develop, and report International Cooperative Agreements as required by statute for new and existing projects. Supported AFMC activities for the NATO Cooperative R&D Programs. Funded USAF participation in panel meetings of TTCP, Air Standardization Coordinating Committee, and NATO forums. Funded periodic bilateral/multilateral meetings to define new areas of possible cooperation and exploratory visits to France, Germany, Israel, United Kingdom, Canada, and other countries on new technology exchange projects. Funded the project engineers at centers and AFRL for identifying, creating and staffing new international cooperative agreements. Funded MAJCOM staff to support and promote ICR&D throughout AFMC. Funded	
Project 4645	Page 2 of 7 Pages	Exhibit R-2 (PE 1001004F)

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(U) <u>A. Mission Description Continued</u>		
(U) <u>FY 2001 (\$ in Thousands) Continued</u>		
	support for the USAF Technology Booth at International Airshows. Funded small contracts in support of technology initiatives.	
(U) \$3,574	Total	
(U) <u>FY 2002 (\$ in Thousands)</u>		
(U) \$100	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.	
(U) \$200	ESEP/APEP - Funds the USAF execution and the management oversight of ESEP and APEP agreements. Funds approximately eight field level military and civilian 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. ESEP agreements will be signed with 14 countries and under negotiation with 6 other countries. 1 APEP agreement will be signed, 2 other countries agreements are under negotiation.	
(U) \$2,183	ICR&D - Funds USAF overseas R&D liaison offices. Funds management support and oversight of International Affairs Armaments Cooperation Division (SAF/IAPQ), AFMC, FCT and NATO Cooperative R&D Program. Funds USAF participation at the NATO Four-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 Systems and Technology Forum and Defense Cooperation Committee Meetings with Singapore and South Korea. Funds expanded technology acquisition contracts and follow-on cooperative opportunities with Russia, Ukraine, and Eastern Europe. Partially funds 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 phase 1 development of the USAF International Activities Database (IADB). Funds negotiation and support costs associated with the NATO AWACS Board of Directors. Funds ICOG efforts to harmonize Four-power requirements and initiate agreements to explore these opportunities.	
(U) \$400	Armaments Cooperation - Funds the USAF to process the rapidly increasing number of proposals for ICR&D Agreements. Work will continue on agreements developed, but not signed, during FY01 and work will be initiated in the following areas: Asia: Unmanned Aerial Vehicles, Early Warning Systems, Theater Missile Defense, Satellites, Command, Control, Communication, Computer, Information and Intelligence, Effects on Global Positioning Systems; Europe: Distributed Simulation Technology, Unmanned Aerial Vehicles, Aging Aircraft, Programmable Integrated Ordinance Suite, Agent Defeat Weapon, Joint Targeting Tool, Satellites, Space, Environmental Issues; Middle East: Intelligence, Sensors, Monitoring of Chemical/Biological Warfare; Central and South America: Monitoring of Chemical/Biological Warfare, Satellites, Space, Environmental Issues.	
(U) \$175	NATO RTO - Funds USAF participation in the NATO RTO activities. The FY02 program of work will consist of studies, technical	
Project 4645	Page 3 of 7 Pages	Exhibit R-2 (PE 1001004F)

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(U) <u>A. Mission Description Continued</u>		
(U) <u>FY 2002 (\$ in Thousands) Continued</u>		
	exchanges, and reports in the following areas: (1) Vehicle and Platform, (2) Propulsion and Power, (3) Human Protection in Adverse Environments, (4) Operational Medicine, (5) Information Warfare and Assurance, (6) Information and Knowledge, (7) Modeling and Simulation, (8) Systems Architecture/ Mechanization, (9) Mission Management, (10) Phenomenology, and (11) Sensors, Electronics, Processing and Components. Continues Partnership for Peace initiative through the R&T outreach program with scientists and engineers from the former Soviet Union and Central Europe.	
(U) \$750	AFMC - Funds AFMC activities to identify, assess, develop, and report International Cooperative Agreements as required by statute for new and existing projects. Supports AFMC activities for the USAF NATO Cooperative R&D Programs. Funds USAF participation in panel meetings of TTCP, Air Standardization Coordinating Committee, NATO Working Groups, and other NATO forums. Funds periodic bilateral/multilateral meetings to define new areas of possible cooperation and exploratory visits to France, Germany, Israel, United Kingdom, Canada, and other countries on new technology exchange projects. Funds the project engineers at centers and AFRL for identifying, creating and staffing new international cooperative agreements. Funds MAJCOM staff to support and promote ICR&D throughout AFMC. Funds support for the USAF Technology Booth at International Airshows. Funds small contracts in support of technology initiatives.	
(U) \$3,808	Total	
(U) <u>FY 2003 (\$ in Thousands)</u>		
(U) \$100	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.	
(U) \$200	ESEP/APEP - Funds the USAF execution and the management oversight of ESEP and APEP agreements. Funds approximately eight field level military and civilian 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. ESEP agreements will be signed with 14 countries and under negotiation with 6 other countries. 1 APEP agreement will be signed, 2 other countries agreements are under negotiation.	
(U) \$2,208	ICR&D - Funds USAF overseas R&D liaison offices. Funds management support and oversight of International Affairs Armaments Cooperation Division (SAF/IAPQ), AFMC, FCT and NATO Cooperative R&D Program. Funds USAF participation at the NATO Four-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 Systems and Technology Forum and Defense Cooperation Committee Meetings with Singapore and South Korea. Funds expanded technology acquisition contracts and follow-on cooperative opportunities with Russia, Ukraine, and Eastern Europe. Partially funds technical assessments and international agreements negotiation start-up costs associated with promising cooperative	
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(U) <u>A. Mission Description Continued</u>		
(U) <u>FY 2003 (\$ in Thousands) Continued</u>		
	R&D programs. Funds upgrades to the DoD International Agreements Management System. Funds phase 2 development of the USAF IADB. Funds negotiation and support costs associated with the NATO AWACS Board of Directors. Funds ICOG efforts to harmonize Four-power requirements and initiate agreements to explore these opportunities.	
(U) \$470	Armaments Cooperation - Funds the USAF to process the rapidly increasing number of proposals for ICR&D Agreements. Work will continue on agreements developed, but not signed, during FY02 and work will be initiated in the following areas: Asia: Radar, Munitions, Space and Materials, Unmanned Aerial Vehicles, Early Warning Systems, Electronics, Satellites, Command, Control, Communications, Computer, Information and Intelligence, Distributed Simulation Technology, Aging Aircraft; Europe: Distributed Simulation Technology, Unmanned Aerial Vehicles, Aging Aircraft, Chemical/Biological Warfare Protection, Satellites, Space, Environmental Issues, Laser Technology, Airborne Radar, Human Factors, Interoperability, Command, Control, Communications, Counter Air Weapons; Middle East: Laser Technology, Human Factors; Central and South America: Aircraft Structural Integrity, Wind Tunnel Design, Materials, Environmental Analysis and Space.'	
(U) \$150	NATO RTO - Funds USAF participation in the NATO RTO activities. The FY03 program of work will consist of studies, technical exchanges, and reports in the following areas: (1) Vehicle and Platform, (2) Propulsion and Power, (3) Human Protection in Adverse Environments, (4) Operational Medicine, (5) Information Warfare and Assurance, (6) Information and Knowledge, (7) Modeling and Simulation, (8) Systems Architecture/ Mechanization, (9) Mission Management, (10) Phenomenology, and (11) Sensors, Electronics, Processing and Components. Continues Partnership for Peace initiative through the R&T outreach program with scientists and engineers from the former Soviet Union and Central Europe.	
(U) \$750	AFMC - Funds AFMC activities to identify, assess, develop, and report International Cooperative Agreements as required by statute for new and existing projects. Supports AFMC activities for the NATO Cooperative R&D Program. Funds AFMC participation in panel meetings of TTCP, Air Standardization Coordinating Committee, NATO Working Groups, and other NATO forums (excluding NAFAG and RTO). Funds periodic bilateral/multilateral meetings to define new areas of possible cooperation and exploratory visits to France, Germany, Israel, United Kingdom, Canada, and other countries on new technology exchange projects. Funds the efforts of project engineers at AFMC subordinate units to identify, create and staff new international cooperative agreements. Funds AFMC staff to support and promote ICR&D throughout AFMC and other major commands, to include training, cooperative assistance visits, conferences/workshops, and international agreement reviews. Funds support for the Defense Technology Booth at International Air and Trade shows. Funds small contracts in support of technology initiatives.	
(U) \$3,878	Total	
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<p>(U) <u>B. Budget Activity Justification</u> This program is in Budget Activity 6, Management and Support, because it provides for general R&D Management support for all aspects of ICR&D activities in the USAF.</p>																																																																																																																																	
<p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;"></th> <th style="text-align: right;"><u>FY 2001</u></th> <th style="text-align: right;"><u>FY 2002</u></th> <th style="text-align: right;"><u>FY 2003</u></th> <th style="text-align: right;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: right;">3,773</td> <td style="text-align: right;">3,825</td> <td style="text-align: right;">3,878</td> <td></td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: right;">3,773</td> <td style="text-align: right;">3,825</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> a. Congressional/General Reductions</td> <td style="text-align: right;">-34</td> <td style="text-align: right;">-17</td> <td></td> <td></td> </tr> <tr> <td> b. 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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 US and allied technologies for equipping coalition forces. We obtain these benefits only after international cooperative opportunities are identified, explored, developed, assessed and after the international agreements are negotiated and concluded. This PE provides funds to execute up-front armaments cooperation responsibilities, rationalize 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</p> </td> </tr> <tr> <td colspan="3">Project 4645</td> <td colspan="3">Page 6 of 7 Pages</td> <td colspan="3">Exhibit R-2 (PE 1001004F)</td> </tr> </tbody></table>										<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>	(U) Previous President's Budget	3,773	3,825	3,878		(U) Appropriated Value	3,773	3,825			(U) Adjustments to Appropriated Value					a. Congressional/General Reductions	-34	-17			b. Small Business Innovative Research	-123				c. Omnibus or Other Above Threshold Reprogram					d. Below Threshold Reprogram	-42				e. Rescissions					(U) Adjustments to Budget Years Since FY 2002 PBR					(U) Current Budget Submit/FY 2003 PBR	3,574	3,808	3,878	TBD	<p>(U) <u>Significant Program Changes:</u> N/A</p>									<p>(U) <u>D. 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		<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>		
	1	2	3	4	1	2	3	4	1	2	3	4
(U) -NATO C3 Agency Program Review				*				X				X
(U) -NATO Research & Technology Board	*		*		X		X		X		X	
(U) -Bilateral Technology R&D Projects MOUs	*	*	*	*	X	X	X	X	X	X	X	X
(U) -Cooperative R&D Projects	*	*	*	*	*	X	X	X	X	X	X	X
(U) -FCT Prioritization Board		*				X				X		
(U) -NATO Cooperative R&D Prioritization Board			*				X				X	
(U) -R&D Loans of Defense Equipment	*	*	*	*	*	X	X	X	X	X	X	X
(U) -Systems & Technology Forum (JA)	*		*		*		X		X		X	
(U) -Other Bilateral forums	*	*	*	*	*	X	X	X	X	X	X	X
(U) -Data/Information Exchange Annexes	*	*	*	*	*	X	X	X	X	X	X	X
(U) -Engineer and Scientist Exchanges	*	*	*	*	*	X	X	X	X	X	X	X
(U) -Administrative and Professional Exchanges				*				X				X
(U) -NATO Air Force Armaments Group	*		*		*		X		X		X	
(U) -Four-Power Air Senior National Representatives	*		*		*		X		X		X	
(U) -Four-Power Long-Term Technology Working Group		*		*		X		X		X		X