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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force										Date: February 2018		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 6: RDT&E Management Support					R-1 Program Element (Number/Name) PE 1001004F I International Activities							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	4.626	4.569	3.998	0.000	3.998	4.071	4.142	4.228	4.306	Continuing	Continuing
664645: International Cooperative Research & Development	-	4.626	4.569	3.998	0.000	3.998	4.071	4.142	4.228	4.306	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The mission of this program is to establish, sustain, expand, and enhance mutually beneficial international partnerships through the implementation of air, space, and cyber international armament cooperation (IAC) agreements thereby supporting USAF and DoD goals and objectives. These International Agreements (IAs) will: significantly improve US and allied conventional defense capacity and capabilities; accelerate the availability of defense systems; realize solutions to meet capability gaps; acquire, upgrade, sustain, and/or support common or interoperable equipment with our allies; create cooperative acquisition, production, or logistic partnerships; promote mutual and equitable sharing of effort, cost, information, and risk; provide operational access; leverage economies of scale; and promote interoperability and commonality with our allies.

The USAF is party to numerous (+500) air, space, and cyber bilateral and multilateral IAs to solve common US and allied military capability gaps, develop materiel solutions, harmonize requirements, and build interoperability with our international partners. This program element funds the USAF to identify, develop, process, negotiate, conclude, implement, and manage IAs in compliance with statutory provisions, legal authorities, fiscal constraints, technology transfer controls, intellectual property rights, third party transfer provisions, equitability criteria, industrial base factors, and political-military interests. Included in this budget are: air, space, and cyber IAC IAs activities; technology assessments; specialized working groups; Air Senior National Representative (ASNR) activities; IAC program and project reviews; bilateral and multilateral staff talks; Engineering and Scientist Exchange Program (ESEP); and Administrative and Professional Exchange Program (APEP).

This program is in Budget Activity 6, Management and Support, because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation. These funds are not to be used for civilian salaries or the construction of permanent facilities.

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B. Program Change Summary (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget		4.784	4.569	4.028	0.000	4.028
Current President's Budget		4.626	4.569	3.998	0.000	3.998
Total Adjustments		-0.158	0.000	-0.030	0.000	-0.030
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		-0.158	0.000	-0.030	0.000	-0.030
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2017	FY 2018	FY 2019
Title: International Partnership Activities				2.095	2.156	1.870
Description: Funds USAF management, support, and oversight of IAC goals and objectives to build global partnerships in support of national security objectives. Funds USAF participation in NATO forums to promote harmonization and interoperability. Funds USAF support and participation in OSD bi-lateral IAC forums. Funds SAF/IA Australian liaison office. Funds technical assessments and discussions that support technology development activities and interoperability. Funds USAF efforts to enhance existing relationships with: Australia, Canada, Denmark, France, Germany, Israel, Italy, Japan, NATO, Netherlands, Norway, South Korea, Singapore, Spain, Sweden, and UK. Funds USAF efforts to strengthen/build IAC relationships with: Czech Republic, Hungary, Poland, India, Finland, and Turkey. Funds USAF efforts to establish IAC relationships with: South Africa, Egypt, Brazil, Chile, and Taiwan.						
FY 2018 Plans:						
Will continue ongoing management, support, and oversight of IAC goals and objectives to establish, sustain, expand and enhance mutually beneficial partnerships between the US and coalition partners to meet current and emerging global strategic challenges through optimization of interoperability, integration, and interdependence between coalition forces. Continuing efforts will have an enhanced focus on mutually beneficial partnerships in Asia.						
FY 2019 Plans:						
Will continue ongoing management, support, and oversight of IAC goals and objectives to establish, sustain, expand and enhance mutually beneficial partnerships between the US and coalition partners to meet current and emerging global strategic challenges						

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C. Accomplishments/Planned Programs (\$ in Millions) through optimization of interoperability, integration, and interdependence between coalition forces. Continuing efforts will have an enhanced focus on mutually beneficial partnerships in Asia. FY 2018 to FY 2019 Increase/Decrease Statement: Priorities will be adjusted to meet budget allocation. Current activities will be prioritized higher than new efforts to establish mutually beneficial partnership.		FY 2017	FY 2018	FY 2019
Title: International Armaments Cooperation (IAC) Agreement Activities Description: Funds the USAF's ability to identify, develop, process, negotiate, conclude, implement, and manage an increasing number of research, development, test, and evaluation (RDT&E) bilateral and multilateral IAC Agreements that meet the goals, objectives, and mission of the USAF and DoD in the Air Domain. IAC activities will meet warfighter needs and enhance interoperability by exploring cooperation with our partners in the areas of: materials and composites, human effectiveness, robotics, nanotechnology, coalition information sharing, biometrics, munitions design, hypersonics, alternative energy, improvised explosive devices (IED) defeat, weapons of mass destruction (WMD) defeat, autonomous control, distributed missions, training systems, lasers, weapon systems, remotely piloted aircraft, armaments interface, intelligence, surveillance and reconnaissance (ISR) capabilities, sustainment, gap analysis, simulators, combined logistics, software updates, mission planning systems, world-wide flight requirements, electronic warfare, safety, aging aircraft, airlift, tankers, trainers, system modifications, directed energy, weapon stores, acquisition, development, co-production, interoperability, maintenance, system development, and upgrades. FY 2018 Plans: Will continue to identify, develop, process, negotiate, conclude, implement, and manage the increasing number of RDT&E bilateral and multilateral IAs that meet the goals, objectives, and mission of the USAF and DoD in the Air Domain. Negotiations will continue on IAs not concluded during FY17. New Air Domain agreements and amendments will be initiated. FY 2019 Plans: Will continue to identify, develop, process, negotiate, conclude, implement, and manage the increasing number of RDT&E bilateral and multilateral IAs that meet the goals, objectives, and mission of the USAF and DoD in the Air Domain. Negotiations will continue on IAs not concluded during FY18. New Air Domain agreements and amendments will be initiated. FY 2018 to FY 2019 Increase/Decrease Statement: Priorities will be adjusted to meet budget allocation. Current agreement activities will be prioritized higher than developing new IAC efforts to identify, develop, negotiate, and conclude international agreements.		1.131	1.013	0.978
Title: International Space Cooperation Description: Funds the USAF's RDT&E efforts in the area of space cooperation with our international partners. Space cooperation with our allies enables the USAF access to critical geography for distributed ground systems, and remote test ranges		0.500	0.500	0.450

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C. Accomplishments/Planned Programs (\$ in Millions) for test and evaluation of space capabilities in electronically challenged environments, joint development and acquisition of space systems, and provides a foundation for long-term, full spectrum operational cooperation. FY 2018 Plans: Will continue to identify, develop, process, negotiate, conclude, implement, and manage the bilateral and multilateral RDT&E IAs that meet the goals, objectives, and mission of the USAF and DoD in the Space Domain. Development and negotiation will continue on IAs not concluded during FY17. New Space Domain agreements and amendments will be initiated. FY 2019 Plans: Will continue to identify, develop, process, negotiate, conclude, implement, and manage the bilateral and multilateral RDT&E IAs that meet the goals, objectives, and mission of the USAF and DoD in the Space Domain. Development and negotiation will continue on IAs not concluded during FY18. New Space Domain agreements and amendments will be initiated. FY 2018 to FY 2019 Increase/Decrease Statement: Priorities will be adjusted to meet budget allocation. Current space activities will be prioritized higher than initiating new efforts in the Space domain with international partners.		FY 2017	FY 2018	FY 2019
Title: International Cyberspace Cooperation Description: Funds the USAF's ability to establish cooperative relationships with allies in the Cyberspace Domain to ensure interoperability, sharing of information on threats, and developing new capabilities to defeat threats to our critical information systems. Cyberspace requires significant research and development efforts and responsiveness to avoid technological surprises. FY 2018 Plans: Will continue to establish relationships and identify, develop, process, negotiate, conclude, implement, and manage bilateral and multilateral RDT&E IAs that meet the goals, objectives, and mission of the USAF and DoD in the Cyberspace Domain. Development and negotiation will continue on IAs not concluded during FY17. New Cyberspace Domain agreements and amendments will be initiated. FY 2019 Plans: Will continue to establish relationships and identify, develop, process, negotiate, conclude, implement, and manage bilateral and multilateral RDT&E IAs that meet the goals, objectives, and mission of the USAF and DoD in the Cyberspace Domain. Development and negotiation will continue on IAs not concluded during FY18. New Cyberspace Domain agreements and amendments will be initiated. FY 2018 to FY 2019 Increase/Decrease Statement:		0.300	0.300	0.250

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019
Priorities will be adjusted to meet budget allocation. Current cyberspace activities will be prioritized higher than initiating new efforts in the Cyberspace domain with international partners.				
Title: Engineer and Scientist Exchange Program/Administrative and Professional Exchange Program (ESEP/APEP) Description: Funds the USAF execution and management oversight of ESEP and APEP programs and personnel. Funds eight to ten field level military and civilian personnel from Air Force Materiel Command Facilities, Product Centers, Test Centers, and Logistic Centers for tours at selected allied partner government laboratories and facilities. FY 2018 Plans: Will continue USAF execution and management oversight of the ESEP and APEP programs and personnel. FY 2019 Plans: Will continue USAF execution and management oversight of the ESEP and APEP programs and personnel. FY 2018 to FY 2019 Increase/Decrease Statement: The number of USAF ESEP/APEP placements overseas will be adjusted down based on funding available.		0.450	0.450	0.300
Title: Air Force Materiel Command (AFMC) Description: Funds AFMC's ability to support IAC RDT&E activities which directly promotes international collaboration. Funds field level technical assessments and discussions that support technology identification and development activities in support of interoperability. FY 2018 Plans: Will continue support of AFMC's ability to identify, assess, continue RDT&E activities from 2017 and pursue new areas of cooperation which support interoperability and relationship building efforts with our international partners. FY 2019 Plans: Will continue support of AFMC's ability to identify, assess, continue RDT&E activities from 2018 and pursue new areas of cooperation which support interoperability and relationship building efforts with our international partners.		0.150	0.150	0.150
Accomplishments/Planned Programs Subtotals		4.626	4.569	3.998
D. Other Program Funding Summary (\$ in Millions) N/A Remarks There is no other program funding for the activities pursued under 1001004F International Activities.				

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E. Acquisition Strategy This program element is the only source of USAF funds to identify, develop, process, negotiate, conclude, implement, and manage IAC opportunities to: (a) acquire, develop, upgrade, sustain, and support common or interoperable equipment with our allies; (b) leverage USAF resources through cost sharing and economies of scale with our partners; (c) exploit the best US and allied technologies for equipping coalition forces; and (d) foster interoperability and commonality with our allies. We obtain these benefits only after IAC opportunities are identified, explored, assessed, developed and IAs are negotiated and concluded. This PE provides funds to execute up-front IAC responsibilities, realize cooperative opportunities, assess allied technologies and generate sound, cost-effective cooperative programs between the USAF and our international partners in the areas of Air, Space and Cyberspace. Once IAs are concluded they are transferred to the appropriate technology or systems program office and are then funded by the program office.		
F. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.		