Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force Date: May 2017

Appropriation/Budget Activity

R-1 Program Element (Number/Name)
PE 1001004F / International Activities

3600: Research, Development, Test & Evaluation, Air Force I BA 6: RDT&E

Management Support

COST (\$ in Millions)	Prior			FY 2018	FY 2018	FY 2018					Cost To	Total
	Years	FY 2016	FY 2017	Base	oco	Total	FY 2019	FY 2020	FY 2021	FY 2022	Complete	Cost
Total Program Element	-	2.315	4.784	4.569	0.000	4.569	4.028	4.102	4.173	4.259	Continuing	Continuing
664645: International Cooperative Research & Development	-	2.315	4.784	4.569	0.000	4.569	4.028	4.102	4.173	4.259	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.

PE 1001004F: International Activities

Air Force Page 1 of 6

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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air	Force			Date	: May 2017	
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 / International Activities				
B. Program Change Summary (\$ in Millions) FY		FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018	Total
Previous President's Budget	2.315	4.784	4.556	0.000	4	1.556
Current President's Budget	2.315	4.784	4.569	0.000	4	1.569
Total Adjustments	0.000	0.000	0.013	0.000	(0.013
 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 0.000 0.000 0.013					(0.013
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2017	FY 2018
Title: Engineer and Scientist Exchange Program/Administrative and Professional Exchange Program (ESEP/APEP)					0.450	0.45
Description: Funds the USAF execution and management of eight to ten field level military and civilian personnel from Air F Centers, and Logistic Centers for tours at selected allied partref FY 2016 Accomplishments: Will continue USAF execution and management oversight of the FY 2017 Plans: Will continue USAF execution and management oversight of the FY 2018 Plans: Will continue USAF execution and management oversight of the ISAF execution and	Force Materiel Coner government land the ESEP and AF	emmand (AFMC) Faboratories and face PEP programs and PEP programs and	personnel.			
Title: International Partnership Activities				1.5	40 2.253	2.15
Description: Funds USAF management, support, and oversign support of national security objectives. Funds USAF participations USAF support and participation in OSD bi-lateral IAC frassessments and discussions that support technology developexisting relationships with: Australia, Canada, Denmark, Francouth Korea, Singapore, Spain, Sweden, and UK. Funds US	ottion in NATO for orums. Funds So pment activities a nce, Germany, Isi	ums to promote ha AF/IA Australian lia and interoperability ael, Italy, Japan, N	armonization and interopera aison office. Funds technic r. Funds USAF efforts to e NATO, Netherlands, Norwa	al nhance		

PE 1001004F: *International Activities* Air Force

UNCLASSIFIED Page 2 of 6

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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force Date: May 2017				
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 / International Activities	,		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
Republic, Hungary, Poland, India, Finland, and Turkey. Funds USAF efforts t Egypt, Brazil, Chile, and Taiwan.	o establish IAC relationships with: South Africa,			
FY 2016 Accomplishments: Will continue ongoing management, support, and oversight of IAC goals and of mutually beneficial partnerships between the US and coalition partners to meet through optimization of interoperability, integration, and interdependence betweenhanced focus on mutually beneficial partnerships within Asia.	et current and emerging global strategic challenges			
FY 2017 Plans: Will continue ongoing management, support, and oversight of IAC goals and of mutually beneficial partnerships between the US and coalition partners to meet through optimization of interoperability, integration, and interdependence betweenhanced focus on mutually beneficial partnerships within Asia.	et current and emerging global strategic challenges			
FY 2018 Plans: Will continue ongoing management, support, and oversight of IAC goals and of mutually beneficial partnerships between the US and coalition partners to meet through optimization of interoperability, integration, and interdependence betweenhanced focus on mutually beneficial partnerships in Asia.	et current and emerging global strategic challenges			
Title: International Armaments Cooperation (IAC) Agreement Activities		0.300	1.131	1.013
Description: Funds the USAF's ability to identify, develop, process, negotiate number of research, development, test, and evaluation (RDT&E) bilateral and goals, objectives, and mission of the USAF and DoD in the Air Domain. IAC a interoperability by exploring cooperation with our partners in the areas of: ma robotics, nanotechnology, coalition information sharing, biometrics, munitions explosive devices (IED) defeat, weapons of mass destruction (WMD) defeat, systems, lasers, weapon systems, remotely piloted aircraft, armaments interface (ISR) capabilities, sustainment, gap analysis, simulators, combined logistics, swide flight requirements, electronic warfare, safety, aging aircraft, airlift, tanke weapon stores, acquisition, development, co-production, interoperability, main	multilateral IAC Agreements that meet the activities will meet warfighter needs and enhance terials and composites, human effectiveness, design, hypersonics, alternative energy, improvised autonomous control, distributed missions, training ace, intelligence, surveillance and reconnaissance software updates, mission planning systems, world-rs, trainers, system modifications, directed energy,			
FY 2016 Accomplishments:				
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PE 1001004F: *International Activities* Air Force

UNCLASSIFIED
Page 3 of 6

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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force Date: May 2017					
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	,			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018	
Will continue to identify, develop, process, negotiate, conclude, implement, and and multilateral IAs that meet the goals, objectives, and mission of the USAF a continue on IAs not concluded during FY15. New Air Domain agreements and	and DoD in the Air Domain. Negotiations will				
FY 2017 Plans: Will continue to identify, develop, process, negotiate, conclude, implement, and and multilateral IAs that meet the goals, objectives, and mission of the USAF a continue on IAs not concluded during FY16. New Air Domain agreements and	and DoD in the Air Domain. Negotiations will				
FY 2018 Plans: Will continue to identify, develop, process, negotiate, conclude, implement, and and multilateral IAs that meet the goals, objectives, and mission of the USAF a continue on IAs not concluded during FY17. New Air Domain agreements and	and DoD in the Air Domain. Negotiations will				
Title: Air Force Materiel Command (AFMC)		0.075	0.150	0.150	
Description: Funds AFMC's ability to support IAC RDT&E activities which directified level technical assessments and discussions that support technology identifier interoperability.					
FY 2016 Accomplishments: Will continue support of AFMC's ability to identify, assess, and develop new ar interoperability and relationship building efforts with our international partners.	nd continuing RDT&E activities which support				
FY 2017 Plans: Will continue support of AFMC's ability to identify, assess, and develop new ar interoperability and relationship building efforts with our international partners.	nd continuing RDT&E activities which support				
FY 2018 Plans: Will continue support of AFMC's ability to identify, assess, and develop new ar interoperability and relationship building efforts with our international partners.	nd continuing RDT&E activities which support				
Title: International Space Cooperation		0.100	0.500	0.500	
Description: Funds the USAF's RDT&E efforts in the area of space cooperation cooperation with our allies enables the USAF access to critical geography for of for test and evaluation of space capabilities in electronically challenged environ systems, and provides a foundation for long-term, full spectrum operational cooperations.	distributed ground systems, and remote test ranges nments, joint development and acquisition of space				

PE 1001004F: *International Activities* Air Force

UNCLASSIFIED
Page 4 of 6

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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force		Date: N	lay 2017	
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 / International Activities			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
FY 2016 Accomplishments: Will continue to identify, develop, process, negotiate, conclude, implement, an IAs that meet the goals, objectives, and mission of the USAF and DoD in the Scontinue on IAs not concluded during FY15. New Space Domain agreements	Space Domain. Development and negotiation will			
FY 2017 Plans: Will continue to identify, develop, process, negotiate, conclude, implement, an IAs that meet the goals, objectives, and mission of the USAF and DoD in the Scontinue on IAs not concluded during FY16. New Space Domain agreements	Space Domain. Development and negotiation will			
FY 2018 Plans: Will continue to identify, develop, process, negotiate, conclude, implement, an IAs that meet the goals, objectives, and mission of the USAF and DoD in the Scontinue on IAs not concluded during FY17. New Space Domain agreements	Space Domain. Development and negotiation will			
Title: International Cyberspace Cooperation		0.100	0.300	0.300
Description: Funds the USAF's ability to establish cooperative relationships vinteroperability, sharing of information on threats, and developing new capability systems. Cyberspace requires significant research and development efforts a	ities to defeat threats to our critical information			
FY 2016 Accomplishments: Will continue to establish relationships and identify, develop, process, negotiat and multilateral RDT&E IAs that meet the goals, objectives, and mission of the Development and negotiation will continue on IAs not concluded during FY15. amendments will be initiated.	e USAF and DoD in the Cyberspace Domain.			
FY 2017 Plans: Will continue to establish relationships and identify, develop, process, negotial and multilateral RDT&E IAs that meet the goals, objectives, and mission of the Development and negotiation will continue on IAs not concluded during FY16. amendments will be initiated.	e USAF and DoD in the Cyberspace Domain.			
FY 2018 Plans: Will continue to establish relationships and identify, develop, process, negotiat and multilateral RDT&E IAs that meet the goals, objectives, and mission of the				

PE 1001004F: *International Activities* Air Force

UNCLASSIFIED
Page 5 of 6

Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force		Date: May 2017
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
3600: Research, Development, Test & Evaluation, Air Force I BA 6: RDT&E	PE 1001004F I International Activities	
Management Support		

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
Development and negotiation will continue on IAs not concluded during FY17. New Cyberspace Domain agreements and amendments will be initiated.			
Accomplishments/Planned Programs Subtotals	2.315	4.784	4.569

D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

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 upfront 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.

PE 1001004F: International Activities

Air Force Page 6 of 6