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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force **Date:** April 2022

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 1001004F / <i>International Activities</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	3.592	2.420	2.593	0.000	2.593	4.472	4.555	4.652	4.755	Continuing	Continuing
664645: <i>International Cooperative Research & Development</i>	-	3.592	2.420	2.593	0.000	2.593	4.472	4.555	4.652	4.755	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 DAF 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 access to remote or operational test sites; leverage economies of scale; and promote interoperability and commonality with our allies.

The DAF is party to more than 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 DAF 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, political-military interests, and the National Defense Strategy (NDS). Included in this budget are: air, space, and cyber IAC and IA activities; technology assessments; specialized working groups; Air Senior National Representative (ASNR) activities; IA 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, RDT&E Management 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.

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B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	3.592	2.420	0.000	0.000	0.000
Current President's Budget	3.592	2.420	2.593	0.000	2.593
Total Adjustments	0.000	0.000	2.593	0.000	2.593
• 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	2.593	0.000	2.593

Change Summary Explanation

The FY 2022 President's Budget submittal did not reflect FY 2023 through FY 2026 funding. Therefore, an explanation of the change between the two budget positions for FY2023 cannot be made in a relevant manner.

C. Accomplishments/Planned Programs (\$ in Millions)

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: International Partnership Activities	1.271	0.621	0.694	0.000	0.694
Description: Advocate, manage, and support IAC activities, goals, and objectives to build global partnerships in support of national security objectives and the National Defense Strategy (NDS). Funds DAF participation in NATO forums to promote harmonization and interoperability. Funds DAF support and participation in OSD bi-lateral IAC forums. Funds technical assessments and discussions that support technology development activities and interoperability. Funds DAF efforts to enhance existing relationships with Australia, Belgium, Canada, Denmark, France, Germany, Israel, Italy, Japan, NATO, Netherlands, New Zealand, Norway, South Korea, Singapore, Spain, Sweden, and UK. Funds DAF efforts to strengthen/build IAC relationships with the Czech Republic, Estonia, Finland, Hungary, India, Luxembourg, Poland, and Turkey. Funds DAF efforts to establish IAC relationships with Brazil, Chile, Columbia, Peru, South Africa, Taiwan, and other emerging partners IAW the NDS.					
FY 2022 Plans: Provide 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					

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
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<p>global strategic challenges through optimization of interoperability, integration, and interdependence between coalition forces.</p> <p>FY 2023 Base Plans: Continue to provide 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. Efforts will have an enhanced focus on mutually beneficial partnerships IAW the NDS.</p> <p>FY 2023 OCO Plans: \$0 planned for FY 2023 OCO Plans</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding increased due to increased requirements</p>					
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<p>Title: International Armaments Cooperation (IAC) Agreement Activities</p> <p>Description: 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 DAF and DoD. IAC activities provide the SAF access to: critical geography; remote test ranges; challenged environments; operational environments; threat scenarios; new capabilities; world class R&D facilities; personnel; cost sharing; economies of scale; critical information systems; and launch vehicles. IAC activities will meet warfighter needs and enhance interoperability by cooperating with our partners in the areas of: secure communications; positioning, navigation, and timing; situational awareness; materials and composites; human effectiveness; space domain awareness; robotics; nanotechnology; missile warning; satellite communications; coalition information sharing; biometrics; munitions design; hypersonics; alternative energy; improvised explosive devices defeat; weapons of mass destruction defeat; responsive space; ground and space based radars; sensors; autonomous control; distributed missions; training systems; lasers; weapon systems; weapon delivery; unmanned aerial systems; armaments interface; swarming; intelligence, surveillance and reconnaissance; sustainment; gap analysis; simulators; combined logistics; mission planning systems; world-wide flight requirements; electronic warfare; safety; aging aircraft; airlift; tankers; trainers; directed energy; weapon stores; systems acquisition; interoperability; and system development, updates, upgrades, and modifications.</p> <p>FY 2022 Plans:</p>	1.871	1.349	1.449	0.000	1.449
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UNCLASSIFIED

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>Identify, develop, process, negotiate, conclude, implement, and manage RDT&E/Acquisition bilateral and multilateral IAs that meet the goals, objectives, and mission of the DAF and DoD in the air, space, and cyber domains. Development and negotiations will continue on IAs not concluded in previous FY. New air, space, and cyber IAs will be pursued IAW the NDS.</p> <p>FY 2023 Base Plans: Continue to identify, develop, process, negotiate, conclude, implement, and manage RDT&E/Acquisition bilateral and multilateral IAs that meet the goals, objectives, and mission of the DAF and DoD in the air, space, and cyber domains. Development and negotiations will continue on IAs not concluded in FY 2022. New air, space and cyber IAs will be pursued IAW the NDS.</p> <p>FY 2023 OCO Plans: \$0 planned for FY 2023 OCO Plans</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding increased due to increased requirements</p>					
<p>Title: Engineer and Scientist Exchange Program/Administrative and Professional Exchange Program (ESEP/APEP)</p> <p>Description: Management oversight and program execution of ESEP and APEP programs and personnel. Selects military and civilian personnel from DAF Command, Product Centers, Test Centers, and Logistic Centers for 2 year tours at selected allied partner government laboratories and facilities. All placements require IAs to be in place with partner governments.</p> <p>FY 2022 Plans: Manage and support DAF execution of the ESEP and APEP personnel placed in foreign partner or DAF facilities.</p> <p>FY 2023 Base Plans: Continue to manage and support DAF execution of the ESEP and APEP personnel placed in foreign partner or DAF facilities.</p> <p>FY 2023 OCO Plans: \$0 planned for FY 2023 OCO Plans</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p>	0.300	0.300	0.300	0.000	0.300

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
N/A					
Title: Air Force Materiel Command (AFMC) Description: Support AFMC's IAC RDT&E activities which directly promotes international collaboration. Funds field level technical assessments and discussions that support technology identification and initial IAC development activities in increases interoperability. FY 2022 Plans: Support of AFMC's ability to identify, assess, continue RDT&E activities and pursue new areas of cooperation which support interoperability and relationship building efforts with our international partners. FY 2023 Base Plans: Continue support of AFMC's ability to identify, assess, continue RDT&E activities and pursue new areas of cooperation which support interoperability and relationship building efforts with our international partners. FY 2023 OCO Plans: \$0 planned for FY 2023 OCO Plans FY 2022 to FY 2023 Increase/Decrease Statement: N/A	0.150	0.150	0.150	0.000	0.150
Accomplishments/Planned Programs Subtotals	3.592	2.420	2.593	0.000	2.593

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• RDTE 06 1001004F: <i>International Activities</i>	-	0.000	0.000	-	0.000	-	-	-	-	0.000	0.000

Remarks
 There is no other program funding for the activities pursued under 1001004F International Activities.

E. Acquisition Strategy
 This program element is the only source of DAF 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

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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 DAF and our international partners in the areas of air, space and cyberspace. Once IAs are concluded they are transferred to the appropriate technology or system program office and are then funded by the program office.