Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

APPROPRIATION/BUDGET ACTIVITY

e

PE 0603790F: NATO Research and Development

DATE: April 2013

BA 4: Advanced Component Development & Prototypes (ACD&P)

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	4.424	4.507	4.568	-	4.568	4.633	4.715	4.795	4.881	Continuing	Continuing
64NATO: Nato Coop R&D	-	4.424	4.507	4.568	-	4.568	4.633	4.715	4.795	4.881	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

These funds will be used to initiate air, space, and cyber international cooperative research, and development (ICR&D) agreements with North Atlantic Treaty Organization (NATO) member states, major non-NATO allies and friendly foreign countries. Each of the selected programs and projects are required to have a concluded international agreements (IA), prior to funds being released, that implements the provisions of Title 10 U.S. Code, Section 2350a. The legislation (Title 10 U.S. Code, Section 2350) authorizes funds to significantly improve U.S. and allied conventional defense capabilities by leveraging the best defense technologies, eliminating costly duplication of R&D efforts, accelerating the availability of defense systems, and promoting US and allied interoperability or commonality. These funds will not be used for government civilian salaries, permanent construction, or spent overseas. This program element funds the implementation of Air Force ICR&D agreements in (1) Basic Research (2) Applied Research (3) Advanced Technology Development (4) Advanced Component Development and Prototypes (5) System Development and Demonstration and (6) RDT&E Management Support.

This PE is designated in Budget Activity 4 because most of the ICR&D projects support specific systems, include all efforts necessary to evaluate integrated technologies in as realistic an operating environment as possible to assess the performance or cost reduction potential of advanced technology, and help expedite technology transition from the laboratory to operational use.

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^{##} The FY 2014 OCO Request will be submitted at a later date

	e				DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOME	NCLATURE				
3600: Research, Development, Test & Evaluation, Air Force PE 0603790F: NATO Research and Development				elopment			
BA 4: Advanced Component Development & Prototypes (ACD&P)							
B. Program Change Summary (\$ in Millions) FY 2012		FY 2013	FY 2014 Base	FY 2014	OCO	FY 2014 Total	
Previous President's Budget	4.424	4.507	4.568		-	4	.568
Current President's Budget	4.424	4.507	4.568		-	4	.568
Total Adjustments	0.000	0.000	0.000		-	0	.000
 Congressional General Reductions 	-	0.000					
 Congressional Directed Reductions 	-	0.000					
 Congressional Rescissions 	0.000	0.000					
 Congressional Adds 	-	0.000					
 Congressional Directed Transfers 	-	0.000					
 Reprogrammings 	0.000	0.000					
 SBIR/STTR Transfer 	0.000	0.000					
 Other Adjustments 	0.000	0.000	0.000		-	0	.000
C. Accomplishments/Planned Programs (\$ in Millions)						FY 2013	FY 2014
Fitle: International Cooperative Research and Development					FY 2012 4.424	4.507	4.56
cooperative projects that receive funding must meet one or more or	f the following	ng requirements:	enhance warfighter capa	bilities	4.424	1.507	1.00
Description: Supports bi- and multi-lateral international agreement cooperative projects that receive funding must meet one or more or and coalition interoperability; accelerate the availability of defense access to the best defense technologies, capabilities and technique duplication of R&D efforts.	f the following systems; str	ng requirements: engthen and reinf	enhance warfighter capa orce strategic partnership	bilities os; gain	4.424	1.007	
cooperative projects that receive funding must meet one or more or and coalition interoperability; accelerate the availability of defense access to the best defense technologies, capabilities and technique	f the following systems; strees; build related and Control and Con	ng requirements: engthen and reinfo ationships and influent entrolling Multiple A Coalition Training, DTAMS Tools; Cul	enhance warfighter capa orce strategic partnership uence with allies; and/or Assets within Complex Rehearsal, and Exercise Itural Radar for Human T	bilities os; gain eliminate	4.424	1.001	
cooperative projects that receive funding must meet one or more or and coalition interoperability; accelerate the availability of defense access to the best defense technologies, capabilities and technique duplication of R&D efforts. FY 2012 Accomplishments: FY12 cooperative projects included but were not limited to: Monito Environments; Closed Loop Alternative Navigation Demonstrations Research; Life Prediction for Metallic Aircraft Structures; Aero Advi	f the following systems; strees; build related by the following and Construction and Penetral Construction of the following sory and Not peed Penetral Construction of the following sory and Not peed Penetral Construction of the following sory and Not peed Penetral Construction of the following sory and Not peed Penetral Construction of the following sory and the fo	ng requirements: engthen and reinforments and influentionships and influentrolling Multiple A Coalition Training, DTAMS Tools; Cultrator Cases; and of mal Hypersectral II is; Background Oriobility Assessment;	enhance warfighter capa orce strategic partnership uence with allies; and/or Assets within Complex Rehearsal, and Exercise ltural Radar for Human Tothers maging Exploitation and ented Schlieren Compari Multi-Interoperability Exp	bilities bs; gain eliminate errain son; periment	7.424		
cooperative projects that receive funding must meet one or more of and coalition interoperability; accelerate the availability of defense access to the best defense technologies, capabilities and technique duplication of R&D efforts. FY 2012 Accomplishments: FY 2012 Accomplishments: FY 2012 Accomplishments: FY 2012 Research; Closed Loop Alternative Navigation Demonstrations Research; Life Prediction for Metallic Aircraft Structures; Aero Advietfects; Computational Multi-Scale Modeling of Explosives; High Spread Plans: FY 2013 Plans: FY 2014 Accomplishments: FY 2015 Plans: FY 2015 Plans: FY 2015 Plans: FY 2015 Plans: FY 2016 Plans: FY 2016 Plans: FY 2017 Plans: FY 2017 Plans: FY 2018 Plans: FY	f the following systems; strees; build related by the following and Construction and Penetral Construction of the following sory and Not peed Penetral Construction of the following sory and Not peed Penetral Construction of the following sory and Not peed Penetral Construction of the following sory and Not peed Penetral Construction of the following sory and the fo	ng requirements: engthen and reinforments and influentionships and influentrolling Multiple A Coalition Training, DTAMS Tools; Cultrator Cases; and of mal Hypersectral II is; Background Oriobility Assessment;	enhance warfighter capa orce strategic partnership uence with allies; and/or Assets within Complex Rehearsal, and Exercise ltural Radar for Human Tothers maging Exploitation and ented Schlieren Compari Multi-Interoperability Exp	bilities bs; gain eliminate errain son; periment	7.427		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force	DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
3600: Research, Development, Test & Evaluation, Air Force	PE 0603790F: NATO Research and Development	

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

FY 2012

FY 2013

FY 2014

FY 2014

FY 2015

FY 2016

FY 2016

FY 2016

FY 2017

FY 2017

FY 2017

FY 2018

FY 2018

FY 2018

FY 2019

FY 2

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

BA 4: Advanced Component Development & Prototypes (ACD&P)

N/A

Remarks

E. Acquisition Strategy

A principal goal of the NATO Cooperative R&D program is to effectively utilize the aggregate resources invested by the US and our allies in air, space, and cyber R&D. This program element provides the critical funding incentive needed to pursue air, space and cyber related ICRD&A agreements and helps to (a) leverage USAF and allied resources through cost sharing and economies of scale; (b) exploit the best US and allied technologies for equipping coalition forces; (c) demonstrate areas of commonality or interoperability with our allies; and (d) accelerate the availability of defense technology and systems. Candidate projects are reviewed against USAF goals, DoD objectives, and warfighter needs prior to being approved. An international agreement defining project objectives, responsibilities and costs is required prior to release of funds. To obtain these funds and ensure service commitment, projects are selected from existing or new RDT&E programs funded in the Future Years Defense Plan (FYDP). Project offices must show matching funds and contributions from associated program elements and equitable allied funding. As appropriate, funding responsibility for out-year requirements and follow-on efforts are transferred to the project office and associated program elements. Any new contracts are awarded after full and open competition.

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 0603790F: NATO Research and Development

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DATE: April 2013 Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 3600: Research, Development, Test & Evaluation, Air Force PE 0603790F: NATO Research and 64NATO: Nato Coop R&D Development BA 4: Advanced Component Development & Prototypes (ACD&P) FY 2014 FY 2014 FY 2014 **Product Development (\$ in Millions)** oco FY 2012 FY 2013 Base Total Contract Target Method Performing All Prior Award Award Award Award **Cost To** Total Value of **Cost Category Item** & Type **Activity & Location** Years Cost Date Date Cost Date Cost Date Complete Contract Cost Cost Cost Subtotal 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 FY 2014 FY 2014 FY 2014 Support (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract Target **Cost To** Method Performing All Prior Award Award Award Award Total Value of **Cost Category Item** Years Cost Date Cost Cost Contract & Type Activity & Location Cost Date **Date** Date Cost Complete Cost International Research Various Feb 2013 Feb 2014 Various:. 3 998 Feb 2012 3 887 3 568 3.568 Continuing Continuing **Projects** Subtotal 0.000 3.568 3.998 3.887 0.000 3.568 FY 2014 FY 2014 FY 2014 Test and Evaluation (\$ in Millions) FY 2012 FY 2013 oco Total Base Contract Target Method Performing All Prior Award Award Award Award **Cost To** Total Value of **Activity & Location** Contract **Cost Category Item** & Type Years Cost Date Cost Date Cost Date Cost Date Cost Complete Cost International Research 0.426 Feb 2012 0.620 Feb 2013 1.000 Feb 2014 Various Various:. 1.000 Continuing Continuing **Projects** Subtotal 0.000 0.426 0.620 1.000 0.000 1.000 FY 2014 FY 2014 FY 2014 Management Services (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract Target Method Performing All Prior Award Award Award Award **Cost To** Total Value of **Cost Category Item** & Type **Activity & Location** Years Cost Date Cost Cost Cost Date Cost Complete Contract Date Date Cost 0.000 Subtotal 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Target **All Prior** FY 2014 FY 2014 FY 2014 **Cost To** Total Value of FY 2012 FY 2013 oco Contract Years Base Total Complete Cost **Project Cost Totals** 0.000 4.424 4.507 4.568 0.000 4.568

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

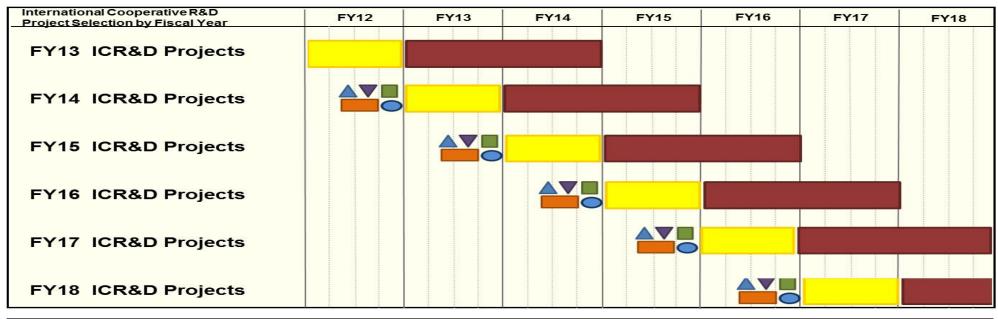
PE 0603790F: NATO Research and

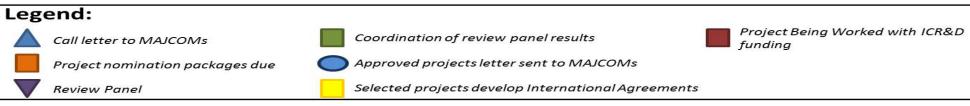
Development

PROJECT

64NATO: Nato Coop R&D

PE 63790F – International Cooperative Research and Development Schedule





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DATE: April 2013 Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE **PROJECT** 3600: Research, Development, Test & Evaluation, Air Force PE 0603790F: NATO Research and

64NATO: Nato Coop R&D BA 4: Advanced Component Development & Prototypes (ACD&P) Development

Schedule Details

	Sta	art	End		
Events	Quarter	Year	Quarter	Year	
FY14 ICR&D Projects - Call Letter	2	2012	2	2012	
FY14 ICR&D Projects - nomination package development	2	2012	3	2012	
FY14 ICR&D Projects - Review panel	3	2012	3	2012	
FY14 ICR&D Projects - Coordination of review panel results	4	2012	4	2012	
FY14 ICR&D Projects - Approved projects letter sent to MAJCOMs	4	2012	4	2012	
FY14 ICR&D Projects - Agreement development, negotiations, and signature	1	2013	4	2013	
FY14 ICR&D Projects - RDT&E cooperative project work	1	2014	4	2015	
FY15 ICR&D Projects - Call Letter	2	2013	2	2013	
FY15 ICR&D Projects - Approved projects letter sent to MAJCOMs	4	2013	4	2013	
FY15 ICR&D Projects - RDT&E cooperative project work	1	2015	4	2016	
FY16 ICR&D Projects - Call Letter	2	2014	2	2014	
FY16 ICR&D Projects - Approved projects letter sent to MAJCOMs	4	2014	4	2014	
FY16 ICR&D Projects - RDT&E cooperative project work	1	2016	4	2017	
FY17 ICR&D Projects - Call Letter	2	2015	2	2015	
FY17 ICR&D Projects - Approved projects letter sent to MAJCOMs	4	2015	4	2015	
FY17 ICR&D Projects - RDT&E cooperative project work	1	2017	4	2018	
FY18 ICR&D Projects - Call Letter	2	2016	2	2016	
FY18 ICR&D Projects - Approved projects letter sent to MAJCOMs	4	2016	4	2016	
FY18 ICR&D Projects - RDT&E cooperative project work	1	2018	4	2018	

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