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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0603791F I International Space Cooperative R&D							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	0.569	0.379	0.833	-	0.833	0.796	0.695	0.708	0.722	Continuing	Continuing
645035: Intl Space Coop R&D	-	0.569	0.379	0.833	-	0.833	0.796	0.695	0.708	0.722	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

# The FY 2015 OCO Request will be submitted at a later date.

## A. Mission Description and Budget Item Justification

These funds will be used to initiate International Space Cooperative Research and Development (ISCR&D) projects with North Atlantic Treaty Organization (NATO) member states, major non-NATO allies and friendly foreign countries. Each of the selected projects are required to have a concluded international agreement (IA), prior to funds being released, that implement the provisions of Title 10 US Code, Section 2350a. This legislation (Title 10 US Code, Section 2350) authorizes funds to significantly improve US 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 be spent overseas. This program element funds the implementation of Air Force ISCR&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 programs is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or protytype systems in a high fidelity and realistic operating environment.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>
Previous President's Budget	0.652	0.379	0.843	-	0.843
Current President's Budget	0.569	0.379	0.833	-	0.833
Total Adjustments	-0.083	-	-0.010	-	-0.010
• Congressional General Reductions	-0.001	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-0.082	-	-0.010	-	-0.010

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<b>Title:</b> International Space Cooperative Research and Development		0.569	0.379	0.833
<b>Description:</b> Supports bi- and multi-lateral space-related international agreements that meet USAF RDT&E objectives and goals. Each of the cooperative projects that receive funding must meet one or more of the following requirements: enhance warfighter capabilities and coalition interoperability; accelerate the availability of defense systems; strengthen and reinforce strategic partnerships; gain access to the best defense technologies, capabilities and techniques; build relationships and influence with allies; and/or eliminate duplication of R&D efforts.				
<b>FY 2013 Accomplishments:</b> FY13 cooperative projects included but were not limited to: Nanosatellites Plug and Play Architectures II; Hyper-Temporal Imaging Exploitation and Validation of Technology; and others.				
<b>FY 2014 Plans:</b> FY14 cooperative projects include but are not limited to: Spacecraft Plasma Expansion Test; Combat Search and Rescue/Blue Force Tracking Enhancements for Nanosatellites; and others.				
<b>FY 2015 Plans:</b> FY15 cooperative projects involve, but are not limited to, RDT&E efforts in space situational awareness, missile warning, military satellite communications, global positioning systems, responsive space capabilities, cyber network defense and information assurance, and space vehicles. These projects include but are not limited to Tessellated Nanosatellite-enhanced Communications Feasibility; and others.				
<b>Accomplishments/Planned Programs Subtotals</b>		0.569	0.379	0.833
<b>D. Other Program Funding Summary (\$ in Millions)</b> N/A				
<b>Remarks</b>				
<b>E. Acquisition Strategy</b> A principal goal of the International Space Cooperative R&D program is to effectively utilize the aggregate resources invested by the US and our allies in space-related R&D. This program element provides the critical funding incentive needed to pursue space-related International Cooperative Research Development and Acquisition (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 space-related RDT&E programs funded in the Future Years Defense Plan (FYDP). Project offices must show matching funds and contributions from				

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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. Most contracts are awarded after full and open competition.		
<b>F. Performance Metrics</b> 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.		

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**Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force**

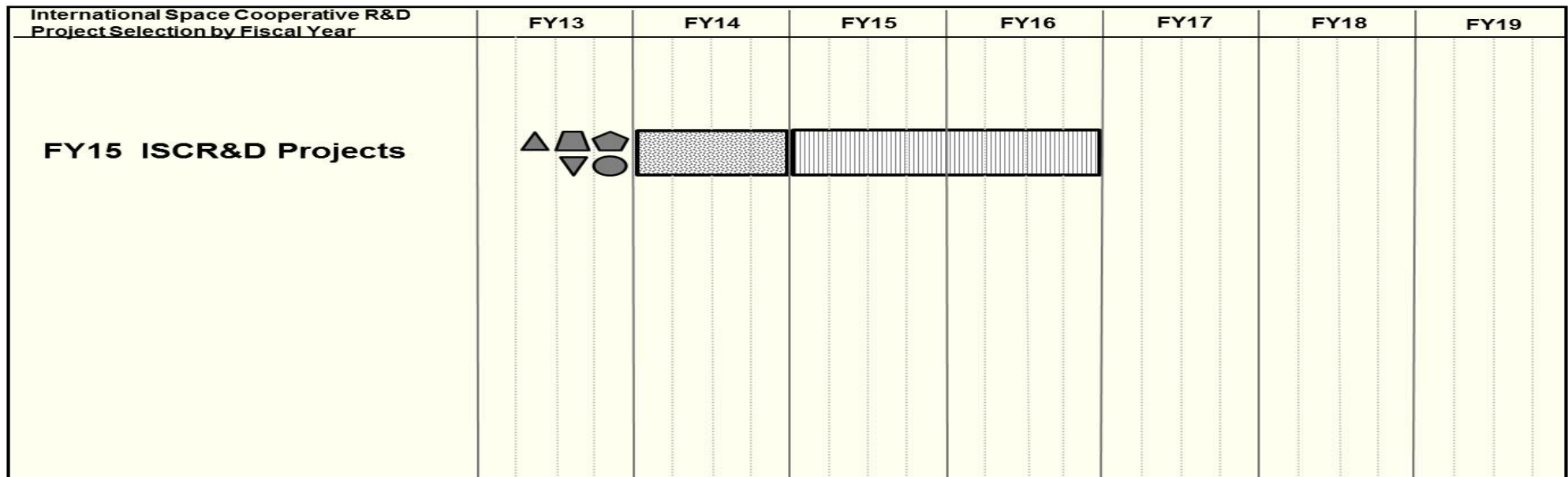
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**R-1 Program Element (Number/Name)**  
PE 0603791F / *International Space Cooperative R&D*

**Project (Number/Name)**  
645035 / *Intl Space Coop R&D*

## PE 0603791F – International Space Cooperative Research and Development Schedule



**Legend:**

- |  |   |   |
|--|---|---|
|  <i>Call letter to MAJCOMs</i>          |  <i>Coordination of review panel results</i>               |  <i>Project Being Worked with ISCR&amp;D funding</i> |
|  <i>Project nomination packages due</i> |  <i>Approved projects letter sent to MAJCOMs</i>           |   |
|  <i>Review Panel</i>                    |  <i>Selected projects develop International Agreements</i> |   |