Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force									DATE: February 2012	

APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0207247F: Air Force TENCAP

COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	11.589	20.727	63.853	-	63.853	60.995	19.248	19.291	15.230	Continuing	Continuing
670001: Air Force TENCAP	11.589	20.727	63.853	-	63.853	60.995	19.248	19.291	15.230	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Air Force TENCAP is executed by the Space Innovation and Development Center (SIDC) at Schriever Air Force Base, Colorado. Established by Congress in 1977 as one of a family of service Tactical Exploitation of National Capabilities (TENCAP) programs, AF TENCAP increases warfighter awareness of Space and National capabilities, and promotes cross-domain integration of these systems into military and intelligence, surveillance and reconnaissance (ISR) operations through:
1) Exploiting existing Space, National and global ISR, and Non-Traditional ISR (NTISR) for operational and tactical applications by rapidly prototyping projects and demonstrating resulting capabilities (for example Battlefield Airborne Command Node (BACN) Intra-Flight Data Link System (IFDL) project). Capabilities will be transitioned to warfighters and/or National Intelligence Agencies for operational use, and/or appropriate acquisition organizations for further development.
2) Influencing the design and operation of future Space, National and global ISR, and NTISR systems for tactical users.
3) Providing education and training to warfighters and National Intelligence agencies.

The AF TENCAP Director administers and executes the AF TENCAP program. The Director coordinates and funds AF TENCAP efforts to provide robust capabilities that enhance support of Joint operations at the tactical level.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Program Change Summary ($ in Millions)

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	11.648	20.727	11.901	-	11.901
Current President's Budget	11.589	20.727	63.853	-	63.853
Total Adjustments	-0.059	-	51.952	-	51.952
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-0.059	-	51.952	-	51.952

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Change Summary Explanation
FY11: -$0.059M reduction for CGRs.

FY13: +$51.952M increase for support to USPACOM's BACN/IFDL and BACN Intra-Flight Subsystem - Multi-Domain Integration (BIS-MDI) efforts.

C. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Title: Exploitation Applications *Description:* Exploiting existing Space, National, and Global ISR, and NTISR for tactical applications by rapidly prototyping projects and demonstrating resulting capabilities and influencing the design and operation of future Space, National and global ISR, and NTISR systems for tactical users. *FY 2011 Accomplishments:* Rapidly prototyped projects, demonstrated resulting capabilities and influenced the design and operation of future Space, National and global ISR, and NTISR systems for tactical users. *FY 2012 Plans:* Rapidly prototyping projects, demonstrating resulting capabilities and influencing the design and operation of future Space, National and global ISR, and NTISR systems. *FY 2013 Plans:* Rapidly prototyping projects, demonstrating resulting capabilities and influencing the design and operation of future Space, National and global ISR, and NTISR systems for tactical users.	10.844	10.953	11.118
Title: BACN/IFDL *Description:* Support USPACOM's counter Digital Radio Frequency Memory (DRFM) tactics development efforts. *FY 2012 Plans:* Provide resources to USPACOM's counter DRFM tactics development efforts with one Battlefield Airborne Communications Node – BACN Intra-Flight Data Link Subsystem (BACN-BIS) equipped aircraft using existing BACN equipment *FY 2013 Plans:* Provide resources to USPACOM's counter DRFM tactics development efforts with one BACN-BIS equipped aircraft using existing BACN equipment	-	9.000	9.000
Title: BIS-MDI *Description:* BACN Intra-Flight Data Link Subsystem – Multi-Domain Integration (BIS-MDI) is a USPACOM effort to provide a means to broadcast multi-source information in a Link 16 compatable format.	-	-	42.000

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C. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
FY 2013 Plans: Develop, procure, install, and integrate four BIS-MDI communication pods on F-15s. Cost of all ancillary equipment including antennas is included.			
Title: Program Support	0.745	0.774	0.735
Description: Provide program support and other government support to the AFTENCAP program. **FY 2011 Accomplishments:** Provided program support and other government support to the AFTENCAP program. **FY 2012 Plans:** Provide program support and other government support to the AFTENCAP program. **FY 2013 Plans:** Provide program support and other government support to the AFTENCAP program.			
Title: BIS-MDI Program Support	-	-	1.000
Description: Provide program support and other government support for BIS-MDI. **FY 2013 Plans:** Provide management services specifically for the BIS-MDI effort.			
Accomplishments/Planned Programs Subtotals	11.589	20.727	63.853

D. Other Program Funding Summary ($ in Millions)

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• Not applicable: *N/A*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

E. Acquisition Strategy

Projects are selected for development based upon needs identified by the program's customers - DOD Departments, Combatant Commands, Components, MAJCOMs, and/or National Intelligence Agencies - and approved via the SIDC strategic planning process.

Acquisition strategies for projects are chosen on a case-by-case basis for optimum results. Many projects are executed via existing contracts maintained by other agencies; others are executed via Air Force TENCAP contracts established with vendors responding to annual Broad Agency Announcements issued by SIDC. The

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U.S. government organization sponsoring a project is responsible for assuming acquisition, deployment, logistics, and budgetary responsibilities for the developed capability after it has been successfully demonstrated by Air Force TENCAP.

The Air Force is pursuing a spiral approach to the BIS-MDI segment to rapidly respond to PACOM capability requirements. Spiral Acquisition utilizes a disciplined systems engineering approach along with a "build-test-build-test-deliver" which focuses on mitigating cost and schedule risk through a lower risk incremental delivery of mature technologies.

Contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible. Program consists of multiple small projects.

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.

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		**DATE:** February 2012
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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0207247F: *Air Force TENCAP*	**PROJECT** 670001: *Air Force TENCAP*

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force		DATE: February 2012
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Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
FY 2012 project concepts identified and approved	3	2011	4	2012
FY 2012 project contractor proposals requested/reviewed	3	2011	1	2012
FY 2012 projects approved for implementation	1	2012	1	2012
FY 2012 projects contracted	1	2012	3	2012
FY 2013 project concepts identified and approved	3	2012	4	2012
FY 2013 project contrator proposals requested/reviewed	3	2012	1	2013
FY 2013 projects approved for implementation	1	2013	1	2013
FY 2013 projects contracted	1	2013	3	2013
FY 2014 project concepts identified and approved	3	2013	4	2013
FY 2014 project contractor proposals requested/reviewed	3	2013	1	2014
FY 2014 projects approved for implementation	1	2014	1	2014