Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

.. _

R-1 ITEM NOMENCLATURE

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

PE 0603845F: Transformational SATCOM (TSAT)

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

,	- /										
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	428.618	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
644944: ADVANCED WIDEBAND SYSTEM	428.618	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3,383.300

Note

In FY2010, Project #4944, Advanced Wideband System, was terminated.

A. Mission Description and Budget Item Justification

Fiscal constraints have led the Department of Defense to terminate the Transformational Satellite Communications System (TSAT) program beginning FY10. The TSAT Mission Operations System (TMOS) and Systems Engineering and Integration (SE&I) contracts were terminated on 8 June and 9 June 2009, respectively. The two Space Segment Risk Reduction and System Definition (RRSD) contracts expired on 7 July 2009.

Funds are in Budget Activity 4, Advanced Component Development and Prototypes, since it funds TSAT technology development and engineering design activities including risk reduction and system definition.

Exhibit R-2, **RDT&E Budget Item Justification:** PB 2011 Air Force **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

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

PE 0603845F: Transformational SATCOM (TSAT)

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

B. Program Change Summary (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	761.285	0.000	0.000	0.000	0.000
Current President's Budget	428.618	0.000	0.000	0.000	0.000
Total Adjustments	-332.667	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 	-332.667	0.000	0.000	0.000	0.000

Change Summary Explanation

The Department terminated the TSAT program beginning FY10. Reprogrammed \$10.0M for higher priorities and Congress approved sourcing \$152M in an FY09 above threshold reprogramming action. Additionally, \$150M was rescinded in the FY09 Supplemental bill. SBIR reduction totaled \$20.667M.

DATE: Fobruary 2010

EXHIBIT K-2A, KDT&E Project Just	incation: Pr	5 ZUII AII F	orce						DATE: Feb	ruary 2010	
APPROPRIATION/BUDGET ACTIV	ΊΤΥ			R-1 ITEM N	NOMENCLA	TURE		PROJECT			
3600: Research, Development, Test				PE 060384	5F: <i>Transfor</i>	mational SA	TCOM	644944: <i>AL</i>	OVANCED V	VIDEBAND S	SYSTEM
BA 4: Advanced Component Develo	pment & Pro	ototypes (AC	D&P)	(TSAT)							
			FY 2011	FY 2011	FY 2011						
COST (\$ in Millions)	FY 2009	FY 2010	Base	000	Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To	Total

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
644944: ADVANCED WIDEBAND SYSTEM	428.618	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3,383.300
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

In FY2010, Project #4944, Advanced Wideband System, was terminated.

A. Mission Description and Budget Item Justification

Exhibit P 24 PDT9 E Project Justification: DR 2011 Air Force

Fiscal constraints have led the Department of Defense to terminate the Transformational Satellite Communications System (TSAT) program beginning FY10. The TSAT Mission Operations System (TMOS) and Systems Engineering and Integration (SE&I) contracts were terminated on 8 June and 9 June 2009, respectively. The two Space Segment Risk Reduction and System Definition (RRSD) contracts expired on 7 July 2009.

Funds are in Budget Activity 4, Advanced Component Development and Prototypes, since it funds TSAT technology development and engineering design activities including risk reduction and system definition.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Contract close-out	428.618	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: In FY2009: Terminated TMOS and SE&I contracts and allowed the two RRSD contracts to expire.					
FY 2010 Plans: In FY2010: N/A					

Exhibit R-2A, RDT&E Project Justification: PB 2011 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 0603845F: Transformational SATCOM

(TSAT)

PROJECT

644944: ADVANCED WIDEBAND SYSTEM

B. Accomplishments/Planned Program (\$ in Millions)

		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: In FY2011: N/A						
FY 2011 OCO Plans:						
In FY 2011 OCO: Not applicable						
	Accomplishments/Planned Programs Subtotals	428.618	0.000	0.000	0.000	0.000

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

			FY 2011	FY 2011	FY 2011					Cost To	
Line Item	FY 2009	FY 2010	Base	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• PE 0603854F: Project 644870,	19.629	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CCS-C, RDT&E											

D. Acquisition Strategy

Program Terminated

E. 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-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

_ _

R-1 ITEM NOMENCLATURE

PROJECT

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

PE 0603845F: Transformational SATCOM (TSAT)

644944: ADVANCED WIDEBAND SYSTEM

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

Product Development (\$ in Millions)

		A Desferming		FY 2010		FY 2 Ba		FY 2	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Architecture Studies	C/CPAF	Various Various	14.900	0.000		0.000		0.000		0.000	0.000	14.900	0.000
Lockheed Martin: Technology Maturation/ Risk Reduction & Program System Definition	C/CPFF	Lockheed Martin Sunnyvale, CA	726.495	0.000		0.000		0.000		0.000	0.000	726.495	0.000
Boeing: Technology Maturation/Risk Reduction & Program System Definition	C/CPFF	Boeing El Segundo, CA	730.619	0.000		0.000		0.000		0.000	0.000	730.619	0.000
Booz Allen Hamilton: System Engineering & Integration / SE&I Follow-on Contractor TBD	TM	Booz Allen Hamilton El Segundo, CA	268.511	0.000		0.000		0.000		0.000	0.000	268.511	0.000
TMOS PRDAs	C/FFP	Various Various	55.139	0.000		0.000		0.000		0.000	0.000	55.139	0.000
TMOS: Lockheed Martin Integrated Systems and Solutions	C/CPAF	Lockheed Martin Integrated Systems and Solutions San Jose, CA	407.532	0.000		0.000		0.000		0.000	0.000	407.532	0.000
Risk Reduction: Technology Maturation	Various/ Various	Various Various	536.356	0.000		0.000		0.000		0.000	0.000	536.356	0.000
Risk Reduction: Technology Maturation	C/CPFF	Lockheed Martin Sunnyvale, CA	27.651	0.000		0.000		0.000		0.000	0.000	27.651	0.000

UNCLASSIFIED

(TSAT)

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

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

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

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

R-1 ITEM NOMENCLATURE PROJECT

PE 0603845F: Transformational SATCOM

644944: ADVANCED WIDEBAND SYSTEM

Product Development (\$ in Millions)

	•	•											
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
(Space Segment) Lockheed Martin													
Risk Reduction: Technology Maturation (Space Segment) Boeing	C/CPFF	Boeing El Segundo, CA	27.651	0.000		0.000		0.000		0.000	0.000	27.651	0.000
Radiation Hardened Parts Developers	Various/ Various	Various Various	42.752	0.000		0.000		0.000		0.000	0.000	42.752	0.000
		Subtotal	2,837.606	0.000		0.000		0.000		0.000	0.000	2,837.606	0.000

Remarks

Support (\$ in Millions)

- appoint (+	,												
					2010	FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Support	Various/ Various	Various Various	254.583	0.000		0.000		0.000		0.000	0.000	254.583	0.000
Program Support	Various/ Various	Various Various	63.444	0.000		0.000		0.000		0.000	0.000	63.444	0.000
	•	Subtotal	318.027	0.000		0.000		0.000		0.000	0.000	318.027	0.000

UNCLASSIFIED

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

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

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

R-1 ITEM NOMENCLATURE

PE 0603845F: Transformational SATCOM

(TSAT)

PROJECT

644944: ADVANCED WIDEBAND SYSTEM

	Total Prior Years Cost	FY 2010		2011 ise	FY 2	-	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	3,155.633	0.000	0.000		0.000		0.000	0.000	3,155.633	0.000

Remarks

Total Prior Years Cost may include only FY 2009 data.

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603845F: Transformational SATCOM (TSAT)

(TSAT)

TSAT Program Terminated

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

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

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

R-1 ITEM NOMENCLATURE

PE 0603845F: Transformational SATCOM

(TSAT)

PROJECT

644944: ADVANCED WIDEBAND SYSTEM

Schedule Details

	St	art	End		
Event	Quarter	Year	Quarter	Year	
Program Terminated	1	2010	4	2011	