

Exhibit R-2, RDT&E Budget Item Justification								DATE February 2004	
BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0207581F JOINT STARS					
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	62.103	57.760	89.247	128.415	79.361	71.838	59.371	0.000	0.000
0003 JSTARS	62.103	57.760	89.247	128.415	79.361	71.838	59.371	0.000	0.000

(U) **A. Mission Description and Budget Item Justification**

The Joint Surveillance Target Attack Radar System (Joint STARS) program produces the world's premier airborne ground surveillance platform, meeting joint combat capability requirements. The 707-based E-8C Joint STARS aircraft provides radar-derived all-weather surveillance and targeting information on moving and stationary ground targets, slowly moving rotary and fixed wing aircraft, and rotating antennas. Joint STARS provides target information for matching direct attack aircraft, standoff weapons, and ground-based attack assets against selected targets, and can be cued by other intelligence, surveillance, and reconnaissance (ISR) and target acquisition systems. This capability enables air and ground commanders to effectively make and execute battle decisions.

This program element enhances the warfighter's ability to achieve the joint vision of combat operations. It develops advanced battle management aids and information fusion to enable rapid decisions in tracking and killing time-critical targets, and helps achieve predictive battlespace awareness. Concept exploration, program definition/risk reduction efforts, and studies support continuous improvements in Command/ Control and ISR (C2ISR) capabilities. These efforts include, but are not limited to, manned and unmanned platforms, space data links, advanced Battle-Management Command, Control and Communications (BMC3) concepts, ISR Constellation, Air Moving Target Indicator (AMTI), Ground Moving Target Indicator (GMTI), Mode 5/S and other large airborne platform integration efforts. The result is greater mission capability, higher mission reliability, and maximum weapon system availability.

This program is in Budget Activity 7, Operational Systems Development, due to efforts supporting a post-Milestone III operational weapon system.

(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	60.317	58.431	89.481
(U) Current PBR/President's Budget	62.103	57.760	89.247
(U) Total Adjustments	1.786	-0.671	
(U) Congressional Program Reductions		-0.497	
Congressional Rescissions		-0.174	
Congressional Increases			
Reprogrammings	3.453		
SBIR/STTR Transfer	-1.667		

(U) **Significant Program Changes:**

- Airborne Battlefield Command and Control Center (ABCCC) project name changed to Airborne Battlefield Command and Control Center (ABCCC) Capability

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Integration (ACI)

- Wing Structural Integrity Program (WSIP) accounts for FY04 increase in test costs. It is a one-time wing structure upgrade of the dedicated test aircraft. The remaining fleet is receiving the same modification via APAF funds.
- In FY04, the majority of ASU funding was transferred to the centrally controlled Tactical Data Link program element (PE #0207448F)

## Exhibit R-2a, RDT&amp;E Project Justification

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Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
0003 JSTARS	62.103	57.760	89.247	128.415	79.361	71.838	59.371	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

**(U) A. Mission Description and Budget Item Justification**

The Joint Surveillance Target Attack Radar System (Joint STARS) program produces the world's premier airborne ground surveillance platform, meeting joint combat capability requirements. The 707-based E-8C Joint STARS aircraft provides radar-derived all-weather surveillance and targeting information on moving and stationary ground targets, slowly moving rotary and fixed wing aircraft, and rotating antennas. Joint STARS provides target information for matching direct attack aircraft, standoff weapons, and ground-based attack assets against selected targets, and can be cued by other intelligence, surveillance, and reconnaissance (ISR) and target acquisition systems. This capability enables air and ground commanders to effectively make and execute battle decisions.

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This program is in Budget Activity 7, Operational Systems Development, due to efforts supporting a post-Milestone III operational weapon system.

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

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) SATCOM EMD (FY03 only), connectivity, Airborne Battlefield Command & Control Center Capability Insertion (ACI), etc.	15.932	8.100	
(U) Spiral Development and Kill Chain (examples: Advanced Radar Modes, Automatic Target Recognition, Find-Fix-Target-Track-Engage-Assess (F2T2EA), SPO operations, etc.)	3.562	4.859	8.024
(U) Global Air Traffic Mgmt (GATM) (i.e.; TCAS, Mode 5/S, etc.) and Joint Services Work Station (JSWS in FY03 only)	6.391	8.666	42.911
(U) Training & Support Systems development (examples: Weapon System Trainer Motion/Visual, Navigation Trainer, etc.)	0.748	0.473	0.330
(U) Link 16 ASU support, connectivity efforts, etc.	8.517	0.050	7.892
(U) Test effort (examples: Joint Test Force, JSTARS Extended Test Support contract, range support, PL-2 security, support of T-3 test aircraft, test labs, etc.)	26.953	35.612	30.090
(U) Total Cost	62.103	57.760	89.247

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(U) C. Other Program Funding Summary (\$ in Millions)(U) D. Acquisition Strategy

FY03 was the last year APAF (BP10) funding was received. The AF will continue various fleetwide modifications throughout the life of the Joint STARS weapon system.

In FY03 PB marks, Congress directed DoD to decide on Joint STARS production status and to submit reprogramming to implement that decision. The Department will cease Joint STARS production at 17 aircraft.



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**Exhibit R-3, RDT&E Project Cost Analysis**

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<b>07 Operational System Development</b>				<b>0207581F JOINT STARS</b>				<b>0003 JSTARS</b>				
<u>(U) Cost Categories</u>	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>Cost to</u>	<u>Total</u>	<u>Target</u>
(Tailor to WBS, or System/Item Requirements) (\$ in Millions)			<u>Prior to FY</u>	<u>2003</u>	<u>2003</u>	<u>2004</u>	<u>2004</u>	<u>2005</u>	<u>2005</u>	<u>Complete</u>	<u>Cost</u>	<u>Value of</u>
			<u>2003</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>			<u>Contract</u>
			<u>Cost</u>		<u>Date</u>		<u>Date</u>		<u>Date</u>			
<u>(U) Product Development</u>												
Weapon System Trainer (WST)	Various	HAFB, MA	12.088	0.748	Feb-03	0.473	Oct-03	0.330	Oct-04	Continuing	TBD	TBD
SATCOM EMD	SS/CPFF	HAFB, MA	94.487	3.367	Dec-02						97.854	TBD
ASU	SS/CPAF	HAFB, MA	0.000	8.517	Jan-03	0.050	Nov-03	7.892	Nov-04	Continuing	TBD	60.161
GATM	Various	HAFB, MA	10.353	3.350	Apr-03	8.666	Feb-04	42.911	Nov-04	Continuing	TBD	TBD
Spiral Development	Various	Various	2.831	0.946	Jan-03	1.799	Feb-04	3.423	Nov-04	Continuing	TBD	TBD
Joint Service Work Station (JSWS)	Various	Various		3.041	Jun-03						3.041	TBD
ACI Migration (formally ABCCC)	SS/CPAF	HAFB, MA	0.000	12.565	Jun-03	8.100	Jan-04				20.665	TBD
Subtotal Product Development			119.759	32.534		19.088		54.556		Continuing	TBD	TBD
Remarks: Where Various Contract Method & Types take place, earliest date funds will be obligated is noted.												
<u>(U) Support</u>												
SPO Ops Support	Various	HAFB, MA	100.500	2.616	Oct-02	3.060	Oct-03	4.601	Oct-04	Continuing	TBD	TBD
Subtotal Support			100.500	2.616		3.060		4.601		Continuing	TBD	TBD
Remarks: Where Various Contract Method & Types take place, earliest date funds will be obligated is noted.												
<u>(U) Test &amp; Evaluation</u>												
E-8C JSTARS Ext. Test Spt (JETS)	SS/FFP/CPFF	Various	338.136	20.860	Nov-02	27.970	Nov-03	22.384	Nov-04	Continuing	TBD	TBD
JTF Range/Support	Various	Various	33.204	6.093	Nov-02	7.642	Nov-03	7.706	Nov-04	Continuing	TBD	TBD
Subtotal Test & Evaluation			371.340	26.953		35.612		30.090		Continuing	TBD	TBD
Remarks: Where Various Contract Method & Types take place, earliest date funds will be obligated is noted.												
<u>(U) Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
<u>(U) Total Cost</u>			591.599	62.103		57.760		89.247		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

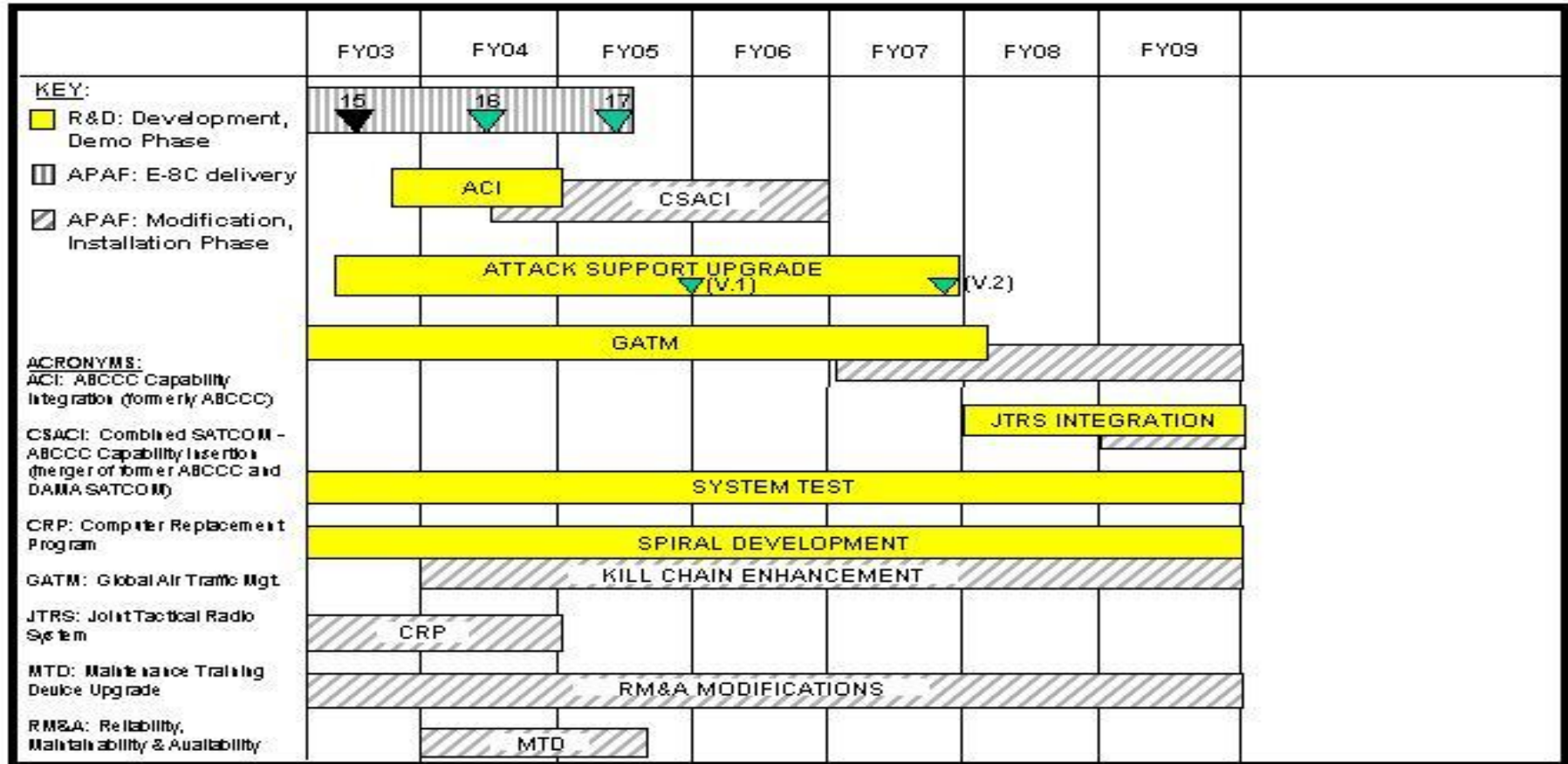
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## Joint STARS Schedule



As of 30 Jan 04

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**Exhibit R-4a, RDT&E Schedule Detail**

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	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) <b>Schedule Profile</b>			
(U) Support & Training Sys. EMD Complete	1Q		
(U) SATCOM Development Complete	2Q		
(U) ASU Contract Award	2Q		
(U) Flight Crew Training System (FCTS) Delivered	2Q		
(U) ACI Contract Award (formally ABCCC)	3Q		
(U) Weapon System Trainer Delivered (WST)		2Q	
(U) GATM RFP Release		2Q	
(U) ACI Development Complete (formally ABCCC)		4Q	
(U) ASU Air Control/Theater Missile Defense capability delivered			2Q