

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2000

BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0305114F Air Traffic Control/Approach/Landing System (ATCALs)

COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	2,870	7,279	18,093	12,279	5,579	5,885	5,995	Continuing	TBD
672026 System Support	252	231	252	237	246	194	193	Continuing	TBD
673587 Air Traffic Control Systems	2,618	7,048	17,841	12,042	5,333	5,691	5,802	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

(U) A. Mission Description

Research, development, test, and engineering activities in this program originally focused on developing the Military Microwave Landing System Avionics (MMLSA) and acquisition of the commercially developed Commercial Microwave Landing System Avionics (CMLSA) as part of a two-decade effort to replace the Precision Approach Radars and Instrument Landing Systems that provide precision landing services even at night and in bad weather. However, with the advent of space-based technologies, the MMLSA program was canceled in the late 1980s. The focus of RDT&E activities in this program turned to a comprehensive modernization of fixed and mobile Air Traffic Control and Landing Systems (ATCALs) that will bridge the gap between the current aging fleet of ground-based ATCALs and future space-based infrastructure. In particular, the program is focused on developing systems that increase commonality and interoperability, reduce manpower requirements, reduce logistics supportability problems, and posture the service to move to space-based aerospace navigation infrastructure when that becomes feasible and affordable (in the second and third decades of the next century). Additionally, this program investigates and exploits emerging technologies in critical ATCALs support areas such as air traffic controller training and terminal instrument procedures development. This program complements other safety of flight and airspace access programs such as Global Air Traffic Management and Global Access, Navigation, and Safety. Project 2026 funds ongoing liaison and interagency cooperative studies, between the USAF Air Traffic Control and Landing Systems program office and various organizations to include other Services, the Federal Aviation Administration (FAA) and ICAO. Project 3587 funds research and development of new air traffic control surveillance, positioning, and precision approach capabilities (including the Mobile Approach Control System (MACS) which replaces non-standard, unsupported, large footprint mobile radar approach systems with a common, easily-transportable system for both the Air National Guard and REGAF). project 3587 also completes the

(U) B. Budget Activity Justification

This program is in budget activity 7 - Operational System Development, because it upgrades avionics in currently fielded weapon systems.

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DATE
February 2000

BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305114F Air Traffic Control/Approach/Landing System (ATCALs)
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(U) <u>C. Program Change Summary (\$ in Thousands)</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2000 PBR)	4,389	5,588	18,254	
(U) Appropriated Value	4,729	7,344		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-340			
b. Small Business Innovative Research	-145			
c. Omnibus or Other Above Threshold Reprogram				
d. Below Threshold Reprogram	-1,358			
e. Rescissions	-16	-65		
f. Other				TBD
(U) Adjustments to Budget Years Since FY 2000 PBR			-161	
(U) Current Budget Submit/FY 2001 PBR	2,870	7,279	18,093	TBD

(U) Significant Program Changes:

Funding:

1. FY 99: Below-Threshold Reprogramming of \$474 made to support higher priority programs.
2. FY00 upward adjustment transfers RDT&E funding from the National Airspace System (NAS) program (PE 305137F) to ATCALs to consolidate small RDT&E lines. The funds will still be used to complete testing and fielding of NAS systems (radars, voice switches, data automation systems, and data systems designed to assist in management of special use airspace)
3. FY01 reflects -\$161 adjustment for revised inflation assumptions

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2000		
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305114F Air Traffic Control/Approach/Landing System (ATCALs)				PROJECT 672026	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
672026 System Support	252	231	252	237	246	194	193	Continuing	TBD
<p>(U) <u>A. Mission Description</u> This continuing effort funds ongoing liaison and interagency cooperative studies, as well as interoperability analyses between the USAF Air Traffic Control and Landing Systems (ATCALs) Program Office and various organizations which include the other services, the Federal Aviation Administration (FAA), and the International Civil Aviation Organization (ICAO). Continues mission support for the ATCALs programs including several joint efforts with the FAA. RDT&E funds are used to resolve or minimize technical interface problems associated with interoperability between existing or planned DoD/FAA ATCALs equipment and capabilities.</p> <p>(U) <u>FY 1999 (\$ in Thousands)</u> (U) \$92 Supported Air Traffic Control and Landing Systems (ATCALs) projects (U) \$111 Conducted interoperability and interface evaluations (U) \$49 Supported precision landing systems studies for the Joint Special Operations Command (U) \$252 Total</p> <p>(U) <u>FY 2000 (\$ in Thousands)</u> (U) \$88 Support for all ATCALs projects (U) \$96 Conduct interoperability and interface evaluations (U) \$47 Support for precision landing studies for JSOC (U) \$231 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u> (U) \$90 Support for all ATCALs projects (U) \$113 Conduct interoperability and interface evaluations (U) \$49 Support for precision landing studies for JSOC (U) \$252 Total</p> <p>(U) <u>B. Project Change Summary</u></p>									
Project 672026			Page 3 of 12 Pages			Exhibit R-2A (PE 0305114F)			

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 2000
BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305114F Air Traffic Control/Approach/Landing System (ATCALs)	PROJECT 672026

(U) **C. Other Program Funding Summary (\$ in Thousands)**

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E									
(U) Other APPN									
N/A									

(U) **D. Acquisition Strategy**
Engineering Manufacturing Development, Fixed Price Incentive Fee (FPIF), No Non-Developmental Items (NDI)

(U) **E. Schedule Profile**

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Acquisition Milestones												
(U) MACS Acquisition Strategy Approved					X							
(U) MACS RFP for Airport Surveillance Radar (ASR)/Operations Systems						X						
(U) MACS RFP for Precision Approach Radar (PAR) System (See footnote)									X			
(U) Contract Milestone												
(U) MACS source selection for ASR/Ops							X					
(U) MACS source selection for PAR (See footnote)											X	
(U) Conduct Precision Landing Studies			*			X				X		

NOTE: To save costs development and long-term sustainment costs, USAF and the US Navy will cooperatively develop the Precision Approach Radar (PAR) system associated with MACS. The Navy is performing all acquisition/contracting actions associated with the PAR system, and the timelines shown reflect the Navy's estimate provided to the System Program Office (HQ ESC/GA)

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000				
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT			
07 - Operational System Development				0305114F Air Traffic Control/Approach/Landing System (ATCALs)				672026			
(U) A. Project Cost Breakdown (\$ in Thousands)											
					<u>FY 1999</u>		<u>FY 2000</u>			<u>FY 2001</u>	
(U)	System Engineering				148		141			146	
(U)	Contract Engineering				81		70			86	
(U)	Test and Evaluation Support				0		0			0	
(U)	Program Management Support				11		10			10	
(U)	Travel				12		10			10	
(U)	Total				252		231			252	
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
(U) Performing Organizations:											
	<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
	<u>Product Development Organizations</u>										
	N/A										
	<u>Support and Management Organizations</u>										
	Various	Multiple	Multiple	N/A		1,018	252	231	252		1,753
	<u>Test and Evaluation Organizations</u>										
	N/A										
(U) Government Furnished Property:											
	<u>Item</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Delivery</u>		<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>							
	<u>Product Development Property</u>										
	N/A										
Project 672026				Page 5 of 12 Pages				Exhibit R-3 (PE 0305114F)			

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)				DATE February 2000		
BUDGET ACTIVITY	PE NUMBER AND TITLE			PROJECT		
07 - Operational System Development	0305114F Air Traffic Control/Approach/Landing System (ATCALs)			672026		
<p>(U) <u>Government Furnished Property Continued:</u></p> <p style="margin-left: 20px;"><u>Support and Management Property</u> N/A</p> <p style="margin-left: 20px;"><u>Test and Evaluation Property</u> N/A</p>						
	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>	<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development	1,018	252	231	252		1,753
Subtotal Support and Management						
Subtotal Test and Evaluation						
Total Project	1,018	252	231	252		1,753

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2000		
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305114F Air Traffic Control/Approach/Landing System (ATCALs)				PROJECT 673587	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
673587 Air Traffic Control Systems	2,618	7,048	17,841	12,042	5,333	5,691	5,802	Continuing	TBD
<p>(U) <u>A. Mission Description</u> This project funds research and development of new air traffic control surveillance, positioning, and precision approach capabilities (including the Mobile Approach Control System (MACS) which replaces non-standard, unsupportable, large footprint mobile radar approach systems with a common, easily-transportable system for both the Air National Guard and REGAF). This year, the project completed development of a multi-mode receiver (the Precision landing System) which will equip every C-17 with the capability to fly approaches using a variety of landing aids, including microwave landing systems and Instrument Landing Systems located close to sources of interference. This project also conducts development and testing for the National Airspace System (NAS) to support fielding of NAS hardware and software for radar systems, digital voice switches, and specialized data automation systems. Additionally, this project funds the development of a replacement system for automated development of terminal instrument procedures (the precisely-measured documents that tell pilots how to fly during final approach to avoid obstacles). This project will also investigate low-cost, high-return methods for improving interoperability between US air navigation systems and those of allied nations, especially the NATO countries.</p>									
<p>(U) <u>FY 1999 (\$ in Thousands)</u></p>									
(U) \$133	Continued to perform platform integration and system engineering analyses								
(U) \$365	Completed PLS flight testing /certification								
(U) \$1,613	Mobile Approach Control System Analysis of Alternatives								
(U) \$507	Air Force Terminal Instrument Procedures Analysis of Alternatives								
(U) \$2,618	Total								
<p>(U) <u>FY 2000 (\$ in Thousands)</u></p>									
(U) \$3,454	Begin Mobile Approach Control System Development								
(U) \$466	Support field to ensure USAF ATC interoperability with FAA and NATO								
(U) \$525	Begin technology insertion studies to determine USAF ATC applicability with coalition allies								
(U) \$847	Begin development of Air Force Terminal Instrument Procedures System								
(U) \$85	Identify interface improvements for NAS systems								
(U) \$139	Perform NAS risk reduction studies/software interoperability analyses								
(U) \$730	Complete NAS radar/automation testing								
Project 673587			Page 7 of 12 Pages				Exhibit R-2A (PE 0305114F)		

UNCLASSIFIED

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BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305114F Air Traffic Control/Approach/Landing System (ATCALs)			PROJECT 673587																																																													
<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2000 (\$ in Thousands) Continued</u></p> <p>(U) \$802 Complete development of NAS Military Airspace Management System</p> <p>(U) \$7,048 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$15,759 Continue Mobile Approach Control System Development</p> <p>(U) \$419 Support field activities to ensure USAF ATC interoperability with FAA and NATO</p> <p>(U) \$494 Continue technology insertion studies to determine USAF ATC applicability with coalition allies</p> <p>(U) \$540 Continue development of Air Force Terminal Instrument Procedures System</p> <p>(U) \$629 Investigate improvements in Mode S capabilities</p> <p>(U) \$17,841 Total</p> <p>(U) <u>B. Project Change Summary</u></p> <p>1. NOTE: Program awaiting \$7,890 reclassification of FY99 OPAF funds to RDT&E to support MACS development</p> <p>2. FY00 upward adjustment transfers RDT&E funding from the National Airspace System (NAS) program (PE 305137F) to ATCALs to consolidate small RDT&E lines. The funds will still be used to complete testing and fielding of NAS systems (radars, voice switches, data automation systems, and data systems designed to assist in management of special use airspace)</p> <p>4. FY01 includes approximately \$150 reduction to account for revised economic assumptions</p> <p>(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;"></th> <th style="width:10%;"><u>FY 1999</u></th> <th style="width:10%;"><u>FY 2000</u></th> <th style="width:10%;"><u>FY 2001</u></th> <th style="width:10%;"><u>FY 2002</u></th> <th style="width:10%;"><u>FY 2003</u></th> <th style="width:10%;"><u>FY 2004</u></th> <th style="width:10%;"><u>FY 2005</u></th> <th style="width:10%;"><u>Cost to</u></th> <th style="width:10%;"><u>Total Cost</u></th> </tr> <tr> <td></td> <td style="text-align: center;"><u>Actual</u></td> <td style="text-align: center;"><u>Estimate</u></td> <td style="text-align: center;"><u>Complete</u></td> <td></td> </tr> </thead> <tbody> <tr> <td>(U) AF RDT&E</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) National Airspace System program (PE 305137F) (See footnote)</td> <td style="text-align: center;">1,787</td> <td style="text-align: center;">0</td> <td style="text-align: center;">201</td> <td style="text-align: center;">203</td> <td style="text-align: center;">206</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Other APPN</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Aircraft procurement, AF</td> <td style="text-align: center;">0</td> <td style="text-align: center;">Continuing</td> <td style="text-align: center;">TBD</td> </tr> </tbody> </table>										<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>		<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>		(U) AF RDT&E										(U) National Airspace System program (PE 305137F) (See footnote)	1,787	0	201	203	206					(U) Other APPN										(U) Aircraft procurement, AF	0	0	0	0	0	0	0	Continuing	TBD
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>																																																											
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>																																																												
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(U) Aircraft procurement, AF	0	0	0	0	0	0	0	Continuing	TBD																																																											
Project 673587				Page 8 of 12 Pages			Exhibit R-2A (PE 0305114F)																																																													

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BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305114F Air Traffic Control/Approach/Landing System (ATCALs)				PROJECT 673587			
(U) C. Other Program Funding Summary (\$ in Thousands)											
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>		
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>			
(U) OPAF - BA 3 (PE 305114F) Weapon System Code 833010	7,890	9,025	10,624	33,903	42,157	76,033	85,132	Continuing	TBD		
(U) OPAF, BA 3, (PE 305137F) Weapon System Code 833020	13,904	45,394	59,240	63,367	54,275	48,179	48,417	Continuing	6,675		
(U) OPAF, BA 5, (PE 305137F) Weapon System Code 86190A (initial Spares)	1,386	4,259	4,993	5,405	4,596	4,030	4,130	Continuing			
(U) MILCON, AF (1) The FY00 funding (\$1,756) was transferred from the NAS program element to this PE in the FY00 Defense Appropriations Act. For FY01-FY03, RDT&E, AF funds shown in this line will be consolidated in PE 305114F to provide greater management flexibility.	16,514	4,000	0	0	0	0	0	Continuing	TBD		
(U) D. Acquisition Strategy Engineering Manufacturing Development, Fixed Price Incentive Fee (FPIF), No Non-Developmental Items (NDI)											
(U) E. Schedule Profile											
				<u>FY 1999</u>			<u>FY 2000</u>		<u>FY 2001</u>		
				1	2	3	4	1	2	3	4
(U) Acquisition Milestones:											
(U) NAS Milestone II (MS II) (Jul 95)											
(U) NAS Revised Acquisition Pgm Baseline						*					
(U) NAS Amended MSII Acquisition Decision Memorandum						*					
(U) NAS Voice Switch LRIP Decision						*					
(U) NAS Radar LRIP Decision							X				
(U) NAS Automation LRIP Decision							X				
(U) NAS Radar & Automation MSIII								X			
(U) NAS IOC									X		
(U) NAS FOC (3QFY10)										X	
Project 673587											

UNCLASSIFIED

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BUDGET ACTIVITY					PE NUMBER AND TITLE						PROJECT		
07 - Operational System Development					0305114F Air Traffic Control/Approach/Landing System (ATCALs)						673587		
(U) E. Schedule Profile Continued													
		<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
		1	2	3	4	1	2	3	4	1	2	3	4
(U)	Contract Milestones												
(U)	NAS Radar												
(U)	Contract Award (Aug 96)												
(U)	Complete Operational Test & Eval											X	
(U)	NAS Automation												
(U)	Contract Award (Sep 96)												
(U)	Complete Operational Test & Eval											X	
(U)	NAS Voice Switch												
(U)	Contract Award (Sep 95)												
(U)	Completed operational Test & Eval			*									
(U)	NAS Military Airspace Mgt System												
(U)	Contract Award (Nov 95)												
(U)	First Delivery/IOC			*									
(U)	MAMS Central Facility activation											X	
(U)	MACS												
(U)	Analysis of Alternatives				*								
(U)	Contract Award								X				
(U)	Developmental Operational Testing												X

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000			
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT			
07 - Operational System Development				0305114F Air Traffic Control/Approach/Landing System (ATCALs)			673587			
(U) A. Project Cost Breakdown (\$ in Thousands)										
						<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>
(U)	Primary Hardware Development					365		3,454		15,759
(U)	Primary Hardware Test and Evaluation					0		1,532		0
(U)	Test and Evaluation Support					41		80		87
(U)	Engineering/Technical Support					92		265		442
(U)	Technology Insertion Studies/integration activities					0		611		903
(U)	NAS Interoperability/Software Analyses					0		139		0
(U)	Mobile Approach Control System (MACS) AOA					1,571		0		0
(U)	Air Force Terminal Instrument Procedures Development					507		847		540
(U)	Program Management Support and Travel					42		120		110
(U)	Total					2,618		7,048		17,841
NOTE: Until FY2000, National Airspace System costs were captured in PE 305137F (National Airspace System). As of FY2000, those costs are captured in this program element.										
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
<u>Product Development Organizations</u>										
GEC Marconi-Hazeltine	FPIF	Jun 93	19,400	19,400	10,165	365				10,530
Lear Astronics	FFP	Dec 97	2,900	2,900	2,900				0	2,900
Various	Multiple	Multiple	Continuing	Continuing	0	2,054	5,854	17,301	Continuing	TBD
<u>Support and Management Organizations</u>										
Various	Multiple	Multiple	Continuing	Continuing	4,041	199	550	540	Continuing	TBD

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2000	
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT	
07 - Operational System Development				0305114F Air Traffic Control/Approach/Landing System (ATCALs)				673587	
(U) <u>Performing Organizations Continued:</u>									
<u>Test and Evaluation Organizations</u>									
46th Test Wing, Eglin AFB	PO	Multiple	2,135	2,235	1,835	644	0	0	2,479
FL									
NOTE: All figures prior to FY00 for the 46th Test Wing under the 'Test and Evaluation Organizations' category was disbursed in PE 305137 (National Airspace System). Figures are shown here for reference only.									
(U) <u>Government Furnished Property:</u>									
	<u>Contract</u>								
	<u>Method/Type</u>	<u>Award or</u>							
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Property</u>									
N/A									
<u>Support and Management Property</u>									
N/A									
<u>Test and Evaluation Property</u>									
N/A									
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>				<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				13,065	2,419	5,854	17,301	TBD	TBD
Subtotal Support and Management				4,041	199	550	540	TBD	TBD
Subtotal Test and Evaluation				1,835		644	0	0	2,479
Total Project				18,941	2,618	7,048	17,841	TBD	TBD