

**UNCLASSIFIED**

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)							DATE February 2000			
BUDGET ACTIVITY <b>07 - Operational System Development</b>				PE NUMBER AND TITLE <b>0102325F Joint Surveillance System</b>				PROJECT <b>672996</b>		
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
672996	FAA/AF Radar Replacement (FARR)	1,582	0	0	0	0	0	0	0	22,845
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

Note: Reprogramming request in process for \$300K for FY00 to complete turnover of final radar site.

(U) **A. Mission Description**  
 The Joint Surveillance System (JSS) provides command, control and communications (C3) capability in support of CINC NORAD's (North American Aerospace Defense) Atmospheric Tactical Warning and Attack Assessment (ATW/AA) air sovereignty, and air defense requirements. The FAA/Air Force Radar Replacement (FARR) program replaces 39 existing JSS radars and 1 log set radar with solid-state, three-dimensional Air Route Surveillance Radar (ARSR)-4 radars to improve mission performance and reduce operation and maintenance costs. The ARSR-4 radars provide three-dimensional (range, azimuth, and height) digital data on aircraft targets within a 200+ nautical mile radius.

(U) **FY 1999 (\$ in Thousands)**  
 (U) \$439 Provided program office support  
 (U) \$600 Continued test and system checkout  
 (U) \$543 Continued interoperability evaluations and commissioning support  
 (U) \$1,582 Total

(U) **FY 2000 (\$ in Thousands)**  
 (U) \$0 No further funding in this project  
 (U) \$0 Total

(U) **FY 2001 (\$ in Thousands)**  
 (U) \$0 No further funding in this project  
 (U) \$0 Total

(U) **B. Budget Activity Justification**  
 This program is in budget activity 7 - Operational System Development because it provides funding for the modernization of a currently existing and operating system.

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<b>(U) C. Program Change Summary (\$ in Thousands)</b>									
				<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>		<u>Total Cost</u>	
(U)	Previous President's Budget (FY 2000 PBR)			2,099				22,854	
(U)	Appropriated Value			2,175					
(U)	Adjustments to Appropriated Value								
	a. Congressional/General Reductions			-76					
	b. Small Business Innovative Research			-57					
	c. Omnibus or Other Above Threshold Reprogram								
	d. Below Threshold Reprogram			-451					
	e. Rescissions			-9					
	f. Other								
(U)	Adjustments to Budget Years Since FY 2000 PBR							-9	
(U)	Current Budget Submit/FY 2001 PBR			1,582				22,845	
(U)	<u>Significant Program Changes:</u>								
<b>(U) D. Other Program Funding Summary (\$ in Thousands)</b>									
	<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)	739	192	62	28	0	0	0		1,021
<b>(U) E. Acquisition Strategy</b>									
The Federal Aviation Administration (FAA) is the lead acquisition agency for the FAA/AF Radar Replacement Program in accordance with a 19 November 1984 sub-agreement (as amended by Amendment 1, dated 1 September 1988) to FAA/AF National Agreement (NAT) 711. The FAA and the Air Force have established a joint Program Office at HQ, FAA, Washington, DC for this procurement. Northrup Grumman Corporation, Linthicum, MD is the prime contractor for the FARR program.									
<b>(U) F. Schedule Profile</b>									
				<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>	

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(U) **F. 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) FARR last operational readiness date							X					
(U) FARR follow-on support including baselining/commissioning before FAA final									X			

Note: \* denotes completed event, X denotes planned event.

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000				
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0102325F Joint Surveillance System			PROJECT 672996			
(U) <b>A. Project Cost Breakdown (\$ in Thousands)</b>											
						<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>	
(U)	Systems engineering					600		0		0	
(U)	Contractor engineering support					115		0		0	
(U)	Installation/Test/Checkouts					428		0		0	
(U)	Program Office support					439		0		0	
(U)	Total					1,582		0		0	
(U) <b>B. Budget Acquisition History and Planning Information (\$ in Thousands)</b>											
(U) <b>Performing Organizations:</b>											
	<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>Performing Activity</u>	<u>or Funding Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
	<u>Product Development Organizations</u>										
	None										
	<u>Support and Management Organizations</u>										
	MITRE	Various		N/A	N/A	5,099	600	0		0	5,699
	TEMS	Various		N/A	N/A	1,669	115	0		0	1,784
	Martin Marietta	Various		N/A	N/A	6,339	0			0	6,339
	Program Office Support	Various		N/A	N/A	1,849	439	0		0	2,288
	<u>Test and Evaluation Organizations</u>										
	Various					6,307	428	0		0	6,735
(U) <b>Government Furnished Property:</b>											
	<u>Item Description</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>or Funding Vehicle</u>	<u>Date</u>	<u>Date</u>							
	<u>Product Development Property</u>										
	none										

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BUDGET ACTIVITY			PE NUMBER AND TITLE		PROJECT	
<b>07 - Operational System Development</b>			<b>0102325F Joint Surveillance System</b>		<b>672996</b>	
<b>(U) <u>Government Furnished Property Continued:</u></b>						
<u>Support and Management Property</u>						
none						
<u>Test and Evaluation Property</u>						
none						
			<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>
			<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
					<u>Budget to</u>	<u>Total</u>
					<u>Complete</u>	<u>Program</u>
<u>Subtotals</u>						
Subtotal Product Development						
Subtotal Support and Management			14,956	1,154	0	0
Subtotal Test and Evaluation			6,307	428	0	0
Total Project			21,263	1,582	0	0
						16,110
						6,735
						22,845