

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001	
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604442F Space Based Infrared Systems (SBIRS) Low				PROJECT 4598	
COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4598 SBIRS Low Element EMD	218,088	238,810	0	0	0	0	0	0	0	493,499
Quantity of RDT&E Articles	0	0	0	0	2	1	0	0	0	0
NOTE: This administration has not addressed FY 2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.										
(U) A. Mission Description (U) The Space-Based Infrared System's (SBIRS) primary mission is to provide initial warning of a ballistic missile attack on the US, its deployed forces or its allies. SBIRS will incorporate new technologies to enhance detection; improve reporting of ICBM, SLBM and tactical ballistic missiles; and provide critical mid-course tracking and discrimination data for national and theater missile defense. This system will provide increased performance in order to meet requirements in US Space Command's Capstone Requirements Document and Air Force Space Command's Operational Requirements Document. SBIRS will consist of satellites in Geosynchronous Earth Orbits (GEO), Highly Elliptical Orbits (HEO) and Low Earth Orbits (LEO) and an integrated centralized ground station serving all SBIRS space elements and Defense Support Program (DSP) satellites. This PE funds the SBIRS Low Program Definition Risk Reduction (PDRR) activities and leads to Engineering, Manufacturing and Development (EMD). SBIRS Low is the LEO component of SBIRS.										
(U) FY 2000 (\$ in Thousands)										
(U) \$162,000	PDRR Contracts (38 month FFP competitive contracts between two contractors to design a system capable of meeting the SBIRS Low requirements described in the SBIRS Operational Requirements Document).									
(U) \$17,645	Provided Program Definition Support (Includes studies, integration into SBIRS Increment System-of-Systems and modeling and simulation)									
(U) \$17,617	Accomplished other risk reduction activities (Includes cryocoolers, batteries, algorithms, rad hard parts, phenomenology, optical filters, MSX data reduction, contamination control, focal plane arrays (visible and long-wave), and survivability)									
(U) \$20,826	Supported Program Office activities									
(U) \$218,088	Total									
The following net transaction is not reflected in the FY00 program total: BTR = -1,459K. This transaction is not reflected in the other sections of the R-docs where an FY00 total is shown.										
Project 4598			Page 1 of 6 Pages				Exhibit R-2 (PE 0604442F)			

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This was a direct result of the SBIRS Management Assessment Team (MAT) results which indicated a need for increased government oversight.</p> <p>In FY02, all program funding will be transferred to BMDO.</p> <p>(U) <u>D. 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DATE

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BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604442F Space Based Infrared Systems (SBIRS)
Low

PROJECT

4598

(U) **E. Acquisition Strategy**

The SBIRS program is managed through a single consolidated System Program Office (SPO) at the Space and Missile Systems Center, Los Angeles Air Force Base, CA. SBIRS Low began PDRR activities in August 1999 with the award of two firm fixed price contracts. PDRR will be followed by a competitive contract award for EMD scheduled for award in the fourth quarter of FY02 with the deployment of the SBIRS Low satellites beginning in the fourth quarter of FY06. FY02 budget transferred to BMDO.

(U) **F. Schedule Profile**

	<u>FY 2000</u>				<u>FY 2001</u>				<u>FY 2002</u>			
	1	2	3	4	1	2	3	4	1	2	3	4

(U) System Requirements Review

*

(U) System Design Reviews

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(U) FY02 budget transferred to BMDO

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001																																																																																																																																																																	
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Project 4598					Page 5 of 6 Pages		Exhibit R-3 (PE 0604442F)																																																																																																																																																																	

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE		
							June 2001		
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT		
05 - Engineering and Manufacturing Development				0604442F Space Based Infrared Systems (SBIRS)			4598		
				Low					
(U) Government Furnished Property:									
	Contract								
	Method/Type	Award or							
Item	or Funding	Obligation	Delivery		Total Prior	Budget	Budget	Budget	Total
Description	Vehicle	Date	Date		to FY 2000	FY 2000	FY 2001	FY 2002	Program
Product Development Property									
Not Applicable									
Support and Management Property									
Not Applicable									
Test and Evaluation Property									
Not Applicable									
					Total Prior	Budget	Budget	Budget	Total
Subtotals					to FY 2000	FY 2000	FY 2001	FY 2002	Program
Subtotal Product Development					36,509	197,262	214,255		448,026
Subtotal Support and Management					92	20,826	24,555		45,473
Subtotal Test and Evaluation									
Total Project					36,601	218,088	238,810		493,499
FY02 budget transferred to BMDO.									

Project 4598

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Exhibit R-3 (PE 0604442F)

Project 4598

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