

UNCLASSIFIED

PE NUMBER: 0604479F
 PE TITLE: MILSTAR LDR/MDR Sat Comm

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2006
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604479F MILSTAR LDR/MDR Sat Comm
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Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	1.056	0.000	0.000	0.000	0.000	0.000	0.000	0.000	602.019
5010 Milstar Sat Comm Sys	1.056	0.000	0.000	0.000	0.000	0.000	0.000	0.000	602.019

(U) **A. Mission Description and Budget Item Justification**
 Milstar is a joint service program to develop and acquire extremely high frequency (EHF) satellites; a satellite mission control segment; and new or modified Army, Navy and Air Force communications terminals for survivable, jam-resistant, worldwide, secure communications to strategic and tactical warfighters. Milstar I satellites 1 and 2 have a low data rate (LDR) payload that supports strategic and tactical forces with emphasis on highly survivable, minimum essential communications. Milstar II satellites 3 through 6 have both LDR and medium data rate (MDR) payloads with increased tactical capabilities, including higher data rates to mobile forces and nulling that will neutralize close-in enemy jammers. Satellite 3 did not reach its proper orbit and the satellite was placed in its final non-interference orbit and shutdown. Satellites 4 and 5 were successfully launched in 2001 and 2002, respectively. The final Milstar satellite was successfully launched in Apr 2003 and was declared operational in Dec 2003. Contract close out will be completed in FY05; no funds are requested in FY06. Milstar terminals are funded under Program Element 0303601F.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	1.380	0.000	0.000
(U) Current PBR/President's Budget	1.056	0.000	0.000
(U) Total Adjustments	-0.324	0.000	
(U) Congressional Program Reductions	-0.013		
Congressional Rescissions			
Congressional Increases			
Reprogrammings	-0.274		
SBIR/STTR Transfer	-0.037		
(U) <u>Significant Program Changes:</u>			
None			

Exhibit R-2a, RDT&E Project Justification

DATE
February 2006

BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0604479F MILSTAR LDR/MDR Sat Comm			PROJECT NUMBER AND TITLE 5010 Milstar Sat Comm Sys		
Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5010 Milstar Sat Comm Sys	1.056	0.000	0.000	0.000	0.000	0.000	0.000	0.000	602.019
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

Milstar is a joint service program to develop and acquire extremely high frequency (EHF) satellites; a satellite mission control segment; and new or modified Army, Navy and Air Force communications terminals for survivable, jam-resistant, worldwide, secure communications to strategic and tactical warfighters. Milstar I satellites 1 and 2 have a low data rate (LDR) payload that supports strategic and tactical forces with emphasis on highly survivable, minimum essential communications. Milstar II satellites 3 through 6 have both LDR and medium data rate (MDR) payloads with increased tactical capabilities, including higher data rates to mobile forces and nulling that will neutralize close-in enemy jammers. Satellite 3 did not reach its proper orbit and the satellite was placed in its final non-interference orbit and shutdown. Satellites 4 and 5 were successfully launched in 2001 and 2002, respectively. The final Milstar satellite was successfully launched in Apr 2003 and was declared operational in Dec 2003. Contract close out will be completed in FY05; no funds are requested in FY06. Milstar terminals are funded under Program Element 0303601F.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Complete Milstar II contract effort which includes close out and disposal of GFP	0.283		
(U) Program Office Support	0.773		
(U) Total Cost	1.056	0.000	0.000

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</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) N/A									

(U) D. Acquisition Strategy

Lockheed Martin was awarded a sole source contract to develop 6 Milstar protected communication satellites. The first two LDR satellites were launched in FY94 and FY95. Satellite 3 launch in FY99 was to provide the first LDR/MDR on-orbit capability, but the satellite did not reach its proper orbit due to a Centaur upper stage failure. Satellites 4 and 5 were launched successfully in 2001 and 2002, respectively. The last LDR/MDR Satellite 6 was successfully launched on 8 April 2003.

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Exhibit R-3, RDT&E Project Cost Analysis

DATE

February 2006

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

**0604479F MILSTAR LDR/MDR Sat
Comm**

PROJECT NUMBER AND TITLE

5010 Milstar Sat Comm Sys

(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	<u>FY 2005</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2007</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
				<u>Cost</u>	<u>Award</u> <u>Date</u>	<u>Cost</u>	<u>Award</u> <u>Date</u>	<u>Cost</u>	<u>Award</u> <u>Date</u>			
(U) <u>Product Development</u>												
LMSC (Milstar I) [Sats 1,2,3L]	C/CPAF		4,727.752								4,727.752	
LMSC (Milstar II) [Sats 3M,4,5,6]	SS/CPAF		3,873.441	0.283	Jul-05						3,873.724	
LMSC (Satellite Engineering)	SS/CPAF		222.123								222.123	
SPAWAR (ACMS)	SS/MIPR		165.406								165.406	
LINCOM	SS/CPAF		37.160								37.160	
Lincoln Lab	SS/MIPR		33.235								33.235	
Miscellaneous	Various		272.905								272.905	
Subtotal Product Development			9,332.022	0.283		0.000		0.000		0.000	9,332.305	0.000
Remarks:												
(U) <u>Support</u>												
Aerospace	SS/CPFF/A F		196.269								196.269	
Miscellaneous	Various		174.166	0.773	Oct-04						174.939	
Subtotal Support			370.435	0.773		0.000		0.000		0.000	371.208	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
None.											0.000	
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Management</u>												
None.											0.000	
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			9,702.457	1.056		0.000		0.000		0.000	9,703.513	0.000

Exhibit R-4, RDT&E Schedule Profile

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PROJECT NUMBER AND TITLE

5010 Milstar Sat Comm Sys

Exhibit R-4a, RDT&E Schedule Detail

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Comm

PROJECT NUMBER AND TITLE

5010 Milstar Sat Comm Sys

(U) Schedule Profile

FY 2005

FY 2006

FY 2007

(U) N/A. No funds in FY06/07.