



**SMC Industry Days
MILSATCOM
Systems Wing
17-19 April 2007**

*Brig Gen Ellen Pawlikowski
Commander*



MILSATCOM Systems Wing (MCSW)

Commander: Brig Gen Ellen Pawlikowski
 Vice Commander: Col David Uhrich

Budget:

- Overall Budget: \$46B Total Portfolio
- The FY08 President's Budget represents \$24.5B for MILSATCOM in FY07 through FY13

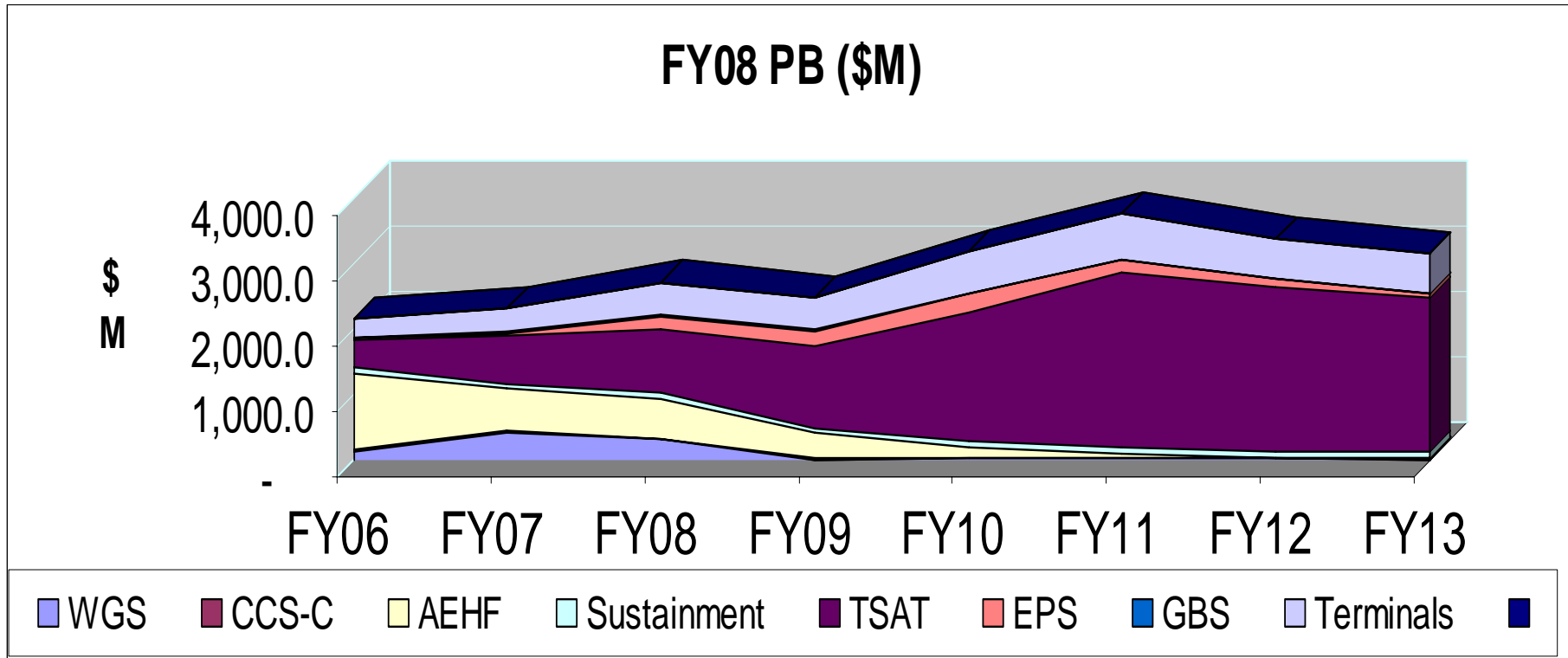
Manpower: Military: 142 Civilian: 60
 FFRDC: 245 SETA: 84

Mission: Plan for, acquire and sustain space-enabled, global communications capabilities to support National Objectives!





MILSATCOM Funding: FY08 President's Budget



**The FY08 President's Budget represents \$24.5B for MILSATCOM
in FY06-FY13**



Advanced EHF (AEHF)

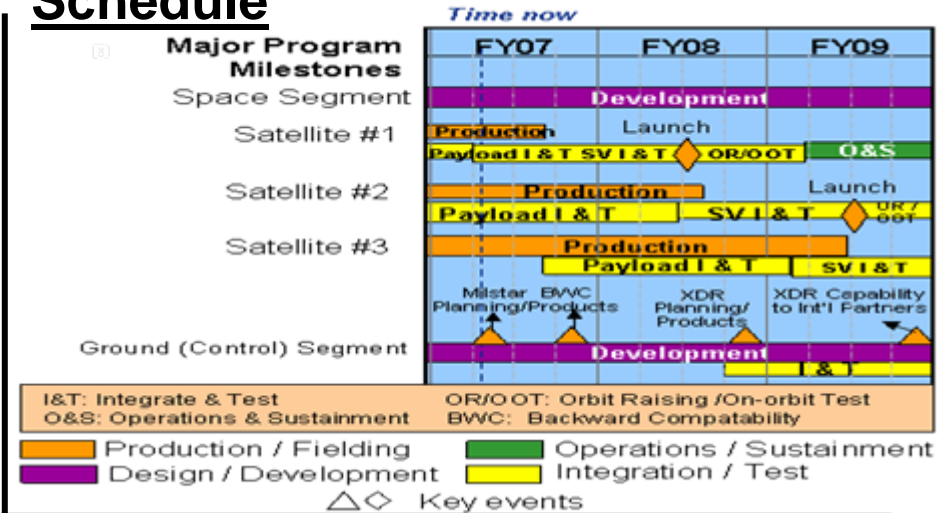
Program Description

- Provides DoD global, secure, protected jam-resistant comm (up to 8 Mbps) and survivable strategic comm (19.2 Kbps) for high priority military ground, sea & air assets
- Allows National Security Council and Unified Combatant Commanders to control Tactical and Strategic Forces at all levels of conflict and supports attainment of Information Superiority

Status

- SV 1 & SV 2 Production 77.9% complete
- IOC 2010; FOC with TSAT 1st Launch
- Payload Development 89.5% complete
- Allied Interoperability (CA, UK, NL); backward compatible with Milstar I/II
- Current launch dates: Apr 2008, 2009, 2010
- Prime Contractor: Lockheed Martin Missiles & Space, Sunnyvale, CA

Schedule



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*AEHF funding is included

AEHF System Capacity is 10X > Milstar



Wideband Global SATCOM (WGS)

Program Description

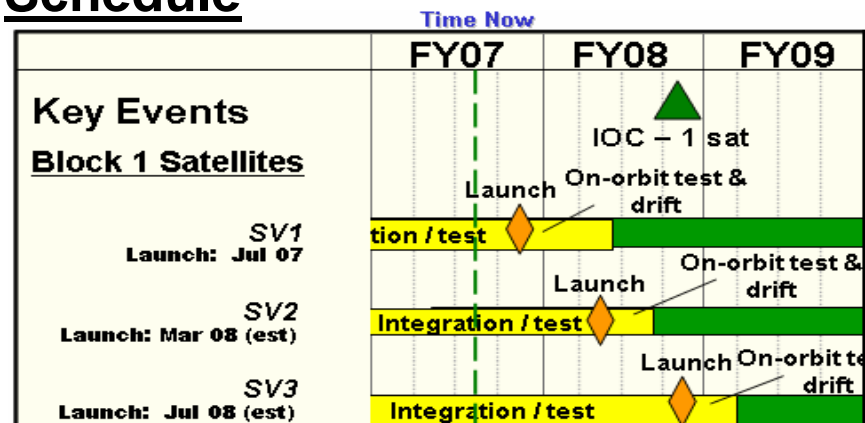
Provides DoD global wideband

- Next generation wideband following / augmenting Defense Satellite Comm System (DSCS) X-band and Global Broadcast Service (GBS) 1-way Ka-band
- Provides new 2-way, high-capacity Ka-band service

Status

- WGS SV-1 ready for Jul 07 launch
- WGS SV 2-3 completing Integration & Testing
- Awarded WGS Blk II (SV 4-5) contract, Oct 06
 - Exercised SV-4 Production and SV-5 AP contract options
- 50th SW: Two operations rehearsals complete; Task Automated Operations (TAO) development on track
- 53rd Sig Bn/GSCCE: System Integration Test (SIT) and Site Activation complete

Schedule



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*WGS funding is included

1 WGS Satellite Capacity > Entire DSCS Constellation Capacity



Transformational Satellite Communications System (TSAT)

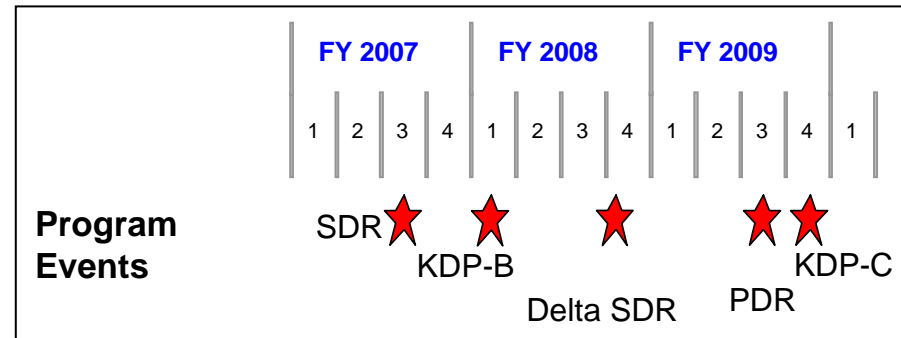
Program Description

- Enables real time connectivity of all Global Information Grid (GIG) Assets—Sensor to Shooter
- Supports Battle Command-On-The-Move capability for Small Highly Mobile Units
- Establishes worldwide persistent connectivity of high/low resolution ISR assets
- Provides survivable communications for Strategic Forces and Homeland Defense

Status

- Technology maturation on track
 - Key processor/router & lasercom tests complete
- Space Segment RFP nearly complete
- Conducting System Design Review
- Preparing for Sys Design & Dev Decision (KDP-B)

Schedule



- May 07 Space RFP release
- Dec 07 Space Contract Award

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*TSAT funding is included

TSAT puts the “global” in the GIG



Command and Control System-Consolidated (CCS-C)

Program Description

- Develop, deploy and sustain an integrated MILSATCOM satellite control system for DSCS III, Milstar, WGS, AEHF, others TBD

Schedule

Major Events	FY05				FY06				FY07				FY08			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
DSCS on CCS-C	DSCS on CCS-C															
Milstar on CCS-C	Milstar on CCS-C															
Wideband Global	<div style="display: flex; justify-content: space-between;"> WGS SV-1 Launch WGS SV-2 Launch WGS SV-3 Launch </div>															
Advanced EHF	<div style="display: flex; justify-content: space-between;"> AEHF SV-1 Launch </div>															
Dev Lab, Test Facility, System Core	Operations and Sustainment															

Status

- CCS-C designated “system of record” for DSCS operations, Feb 05
- CCS-C designated “system of record” for Milstar operations, Oct 05
- WGS and AEHF development underway to support FY07 and FY08 launches
- *Prime Contractor: Integral Systems Inc. (ISI), Lanham MD*

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*CCS-C funding is included



Global Broadcast Service (GBS)

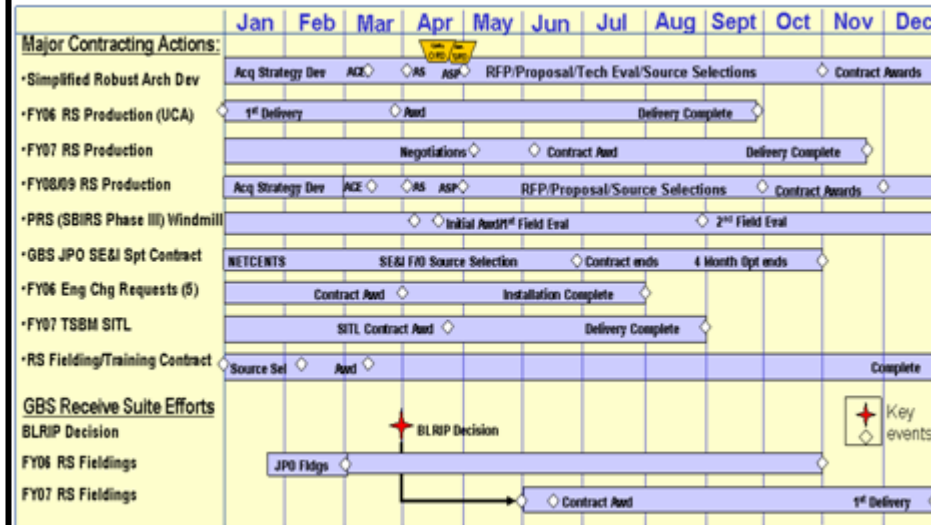
Program Description

- GBS is an extension of the Global Information Grid that provides worldwide, high-capacity, one-way transmission of video, imagery and other high bandwidth information
- Supports the nation's command centers and joint combat forces in garrison, in transit and deployed within global combat zones

Status

- 500+ Receive Suites/terminals delivered
- Beyond LRIP Decision (Mar/Apr 07)
- MOT&E-2 Test (May 07)
- IOC-2&3 Declaration (Dec 07)
- *Prime Contractor: Raytheon Intel & Info Sys, Reston VA*

Schedule



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Terminals: Family of Advanced Beyond Line-Of-Sight Terminals (FAB-T)

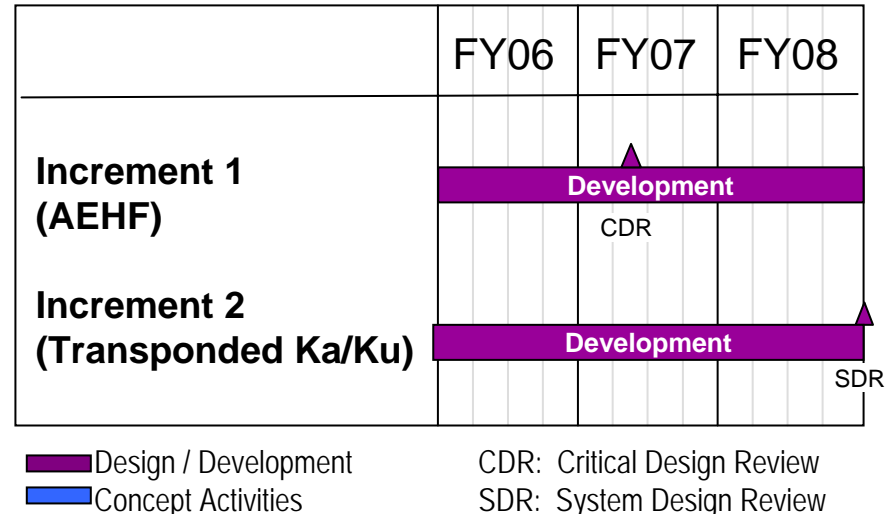
Program Description

- Develops architecture to support family of satellite comm terminals for airborne, ground-fixed & ground-transportable applications
- Increment 1 provides EHF/AEHF protected comm capability for the warfighter
 - Interoperable w/ Milstar, AEHF & UFO/E satellites
- Increment 2 provides Ka/Ku-band SATCOM
 - Interoperable with Wideband Global SATCOM
 - Provides ISR reachback
- Increment 3 provides processed Ka & EHF XDR+
 - Interoperable with TSAT

Status

- Increment 1
 - System CDR conducted in Feb 07
 - EDM deliveries begin Dec 08
- Increment 2
 - SDD Phase 2 Award Nov 07
 - System Design Review Oct 08
 - Preliminary Design Review 4QFY09

Schedule



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***Terminals funding is included**



Terminals: High Data Rate Radio Frequency (HDR-RF) Ground

Program Description

- Provides the Intelligence, Surveillance and Reconnaissance (ISR) ground units with beyond-line-of-sight (BLOS) data rates to 137/274 Mbps
 - Current rqmts for 17 systems
 - SCA compliant Modem update to GMT
- Platforms: Mission Control Element (MCE) for Global Hawk and Distributed Common Ground Station (DCGS)

Status

- In first of three phase effort
- Phase 1 – Application Demonstration Phase in Source Selection – 24 mo
 - Contractor TBD
- Phase 2 – Qualify modem(s) with the Operational Waveform – 12 mo
 - Contractor TBD
- Phase 3 – Integrate with GMT, certify system, produce/field systems – 24 mo
 - Contractor TBD

Schedule

	FY07				FY08				FY09			
	1	2	3	4	1	2	3	4	1	2	3	4
Milestones			△									
			Phase 1 CA									
Space Segment			▲		▲		▲					
			WGS Launch 1		WGS Launch 2		WGS Launch 3					
Test Waveform	■											
Phase 1 App Demo			▽									
			Test Waveform Available									
			■									

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Way Ahead / Future Business Opportunities

AEHF:

- Potential subcontracting opportunities through Lockheed Martin

WGS:

- Potential subcontracting opportunities through Boeing

CCS-C:

- FY09: Sustainment contract for FY11 will be re-competed; \$ TBD
- FY10: Follow-on to CCS-C: Currently refining TSAT requirements

TSAT:

- Space Segment Contract – RFP Draft in work – Anticipate contract award FY08



Way Ahead / Future Business Opportunities

GBS:

- **FY08 Defense Enterprise Computing Center Transition RFP Development and Source Selection (4th Qtr 07)**
- **FY08 Receive Suite Production RFP Development & Source Selection (4th Qtr 07)**

FAB-T:

- **No industry business opportunities for Increments 1 & 2, there may be opportunities in future increments**

HDR-RF:

- **Phase 2 Source Selection and Contract Award (FY09)**
- **Phase 3 Source Selection and Contract Award (FY11)**



Summary

- **MILSATCOM is serving us well, but supply not keeping up with demand**
- **TSAT offers unique opportunity for order of magnitude improvement in information superiority and combat effectiveness**
- **Industry participation is essential to mission success**
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