

# 526<sup>th</sup> ICBM Systems Wing

12 Apr 06

Mr. Rick Fuit 826 ICBMSG/CL





## Modernize and sustain the land-based nuclear and non-nuclear ICBM deterrent force.





Working together to exceed the warfighters' need by sustaining the world's preeminent strategic deterrent force; ensuring the security of our freedoms





**Director: Ms. Jo D Turner** 

Near-Term Strength: Military - Auth: 42\* Asgn: 64 Civilian - Auth: 355\* Asgn: 310 SETA / A&AS: 33

FY07 Budget:

3600 ~ \$57M 3020 ~ \$705M

Mission: Modernize and sustain the land-based nuclear and non-nuclear ICBM deterrent force.



### Scope of Wing Systems Responsibilities

- Sustainment
- Program Control
- Acquisition and Modification Management
- Aging/Surveillance Analysis
- Depot Level Maintenance Requirements & Budgeting
- Storage and Transportation Requirements & Budgeting
- Peacekeeper Disposition
- Systems Engineering and Integration





## **ICBM Major Programs**



<sup>\*</sup>Rapid Execution & Combat Targeting



# ICBM Major Programs (cont)

ICBM Security		To assist and modernize current Launch Facility security system \$499.9M In development/production
ICBM Crypto		Replacing the KI-22 cryptography device with the newly designed KS-60 In development\$156.3M
Land Based Strategic Deterrent		Incremental acquisition strategy addresses key warfighters' future needs TBD
Prompt Global Strike	Arrent and a second and a secon	Analysis of alternatives underway to provide non- nuclear effects Various
Applications		Addresses key technologies for nuclear and non- clear systems while preserving industrial skills Approx \$30M annually

# **Top Priorities / Issues**

- Aging Weapons Systems
- Diminishing Manufacture Sources and Material Shortages
- Engineering Requirements and Budget Lead Time Away
- Evolving new capabilities funding reductions in sustainment and applications
- Integrated roadmap of sustainment and modification to 2030



# **Guidance Applications Program**

#### **Program Objective**

Maintain critical guidance skills to respond to aging phenomena, unexpected problems, and future requirements. Identify and mature guidance and instrument technologies relevant to current and future guidance systems.

#### 

- Advanced Instrument Development
  - ATIA/ATIG (Accel and Gyro)
- Advanced Guidance System Testbed
  - Phase 2 Beginning (Test Bed Build)
  - CDR, March 2007
- Rad Hard Electronics (working with Navy)
- Flight environment testing





## Reentry Vehicle Applications Program

#### **Program Objective**

Maintain critical reentry skills to respond to aging phenomena, unexpected problems, and future requirements. Identify and mature technologies relevant to current and future reentry vehicles.

#### **Status**

- Alternate Heat Shield/GPS experimental RV flight tested on GT-191 (14 Jun 06)
  - Demonstrated replacement heatshield material
  - Evaluated aft mounted GPS antenna reception
  - Evaluated MK21 LSD in MMIII booster environment
- Materials Test Vehicle on GT-194 (11 Apr 07)
  - Demonstrate smaller/higher power TDRSS
  - Evaluate replacement C/C nosetip mat'l
- Fuze part prototypes reduce MK21 refurbishment risk





## Propulsion Applications Program

#### Program Objective

- Reduce technical risk for current and future weapon systems
- Maintain critical propulsion skills and industrial base to respond to aging phenomena, unexpected problems, and future requirements.
- Identify and mature technologies relevant to current and future propulsion systems.



- Advanced Stage 2
  - Final design complete and motor is in fabrication for sea level static fire (Jan 08)
  - On track for altitude test (Dec 09)
- Advanced Stage 3
  - Final design complete and motor is in fabrication for sea level static fire (FY10)
- Post Boost
  - Component development and testing in progress
- Ordnance work underway with Navy





## **ICBM Security Modernization Program**

#### Program Objective

•Expanding concrete apron to increase access delay of unauthorized individuals.

•Significantly increasing B-Plug speed to prevent unauthorized entry through the maintenance portal.

•Providing a new capability to remotely assess Launch Facility (LF) activity

- B-Plug
  - IOC install (I-5) at Minot AFB complete
  - Rivet MILE Deployment transition 14 May 07
- RVA
  - SMIC installation begins 10 Apr 07
  - Initial 20 Prototypes deploy Jun 07
- Concrete
  - 15 Sites remaining at Malmstrom AFB





### ICBM Cryptography Upgrade Program

#### Program Objective

Develop, produce, and deploy the KS-60 ICBM Cryptographic Equipment to replace the existing KI-22 Secure Data Unit in all Minuteman facilities. FOC is driven by NSA requirement to field KS-60s by the end of CY09.

- WCPS Software TRR (Dec 06)
- WCPS Hardware FCA/PCA (Dec 06)
- Concluded Weapon System Tests (Jan 07)
- KS-S0 NSA Type 1 TRB (Jan 07)
- KS-60 FSE/DSE CDR (Jan 07)
- KS-60 FCA (Jan 07)
- KS-60 NSA Type 1 Certification (Feb 07)
- Milestone C Approved (Mar 07)
- Production Contract Award (Mar 07)



## / Way Ahead Future Business Opportunities

- 526<sup>th</sup> ICBM Systems Wing will continue advanced development and sustainment activities
  - Industry Base
  - Technology Transition
  - Transform MMIII





- Aging Weapons Systems
- Diminishing Manufacture Sources and Material Shortages
- Industrial Base
- Technology Transition
- MMIII Transformation

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