Air Force Global Strike Command

To Deter and Assure

Air Force
Global Strike Command

Obtained by Hans M. Kristensen
Federation of American Scientists
Available at http://blogs.fas.org/security

Lt Gen James M. Kowalski
Commander
7 May 2013

This Briefing Is UNCLASSIFIED
To Deter and Assure

National Security Focus

- Cold War Ends
- China's GDP #2 -- Surpasses Japan

ICBMs / Bombers

- Total Deployed Warheads
- ICBMs
- Fall of Berlin Wall
- Bombers
- NK Nuc Test
- 9/11

Warheads

0 200 400 600 800 1000 1200 1400
0 2000 4000 6000 8000 10000 12000 14000

420
96
~1700
450
60

National Security Focus

Total Deployed Warheads

- China’s GDP #2 -- Surpasses Japan
- India Nuclear Test (x2)
- Pakistan Nuclear Test (x2)
- NK 1st Nuclear Test
- IR 1st Sat Launch
- IR 1st Nuclear Test
- IR 2nd Sat Launch
- IR 2nd Nuclear Test
- IR 3rd Sat Launch
- NK 1st Sat Launch
- NK 2nd Nuclear Test
- NK 1st Nuclear Test
- NK 3rd Nuclear Test

To Deter and Assure
“Make no mistake: as long as these weapons exist, the United States will maintain a safe, secure and effective arsenal to deter any adversary, and guarantee that defense to our allies.”

President Barack Obama
Prague, 5 April 2009
To Deter and Assure

Weapons Modernization

Note: The Chart Includes Only Systems That Are Considered Nuclear-Capable (Note added by FAS)

<table>
<thead>
<tr>
<th>MISSILE</th>
<th>SUBMARINE</th>
<th>CRUISE MISSILE</th>
<th>WARHEAD</th>
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<td>SS-27 ICBM</td>
<td>Borei SSBN</td>
<td>KH-102 ALCM</td>
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<td>Will field in next 5 years</td>
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Command Briefing (May 7, 2013)
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“Deterrence planning and forces must fit today's unique global security environment…where several nuclear-armed states are modernizing both their arsenals and their delivery systems”

- General Kehler, USSTRATCOM, 30 May 2012
Nuclear deterrence provides strategic stability with Russia and China

- Framework for mil-to-mil and diplomatic engagement
- Improves transparency and mutual confidence
Regional Deterrence

- U.S. nuclear forces are part of a regional deterrence architecture
  - Continued provision of extended deterrence to assure allies and partners of our commitment
  - A nuclear dimension is required as long as nuclear threats to allies and partners remain
  - Demonstrate to adversaries that pursuit of nuclear weapons is counter to their goal of achieving military/political advantage
  - Nuclear umbrella provided by the Triad, tactical nuclear weapons and the ability to forward deploy nuclear weapons
Assure Allies

- Nuclear assurance supports goal of non-proliferation
  - Credible nuclear deterrent and reinforced regional security architectures essential to assuring non-nuclear allies
  - Assurance supports non-proliferation goals as allies and partners not compelled to seek nuclear weapons
  - Resolve demonstrated through forward deployment of U.S. forces and provision of extended deterrence

30 Allies Protected Under U.S. Nuclear Umbrella

To Deter and Assure
Develop and provide combat-ready forces for nuclear deterrence and global strike operations...

-- Safe
-- Secure
-- Effective

to support the President of the United States and Combatant Commanders.
American Airmen with **special trust and responsibility** for the most powerful weapons in our Nation’s arsenal … an elite, highly-disciplined team … a model command.
AFGSC Partners

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Today’s Fight

Regional Command
USNORTHCOM 13
USOUTHCOM 6
USAFRICOM 8
USEUCOM 15
USCENTCOM 653
USPACOM 291
Total Deployed 986

Data provided by AFGSC/A3. Current as of 6 May 13
Command Relationships

- SECAF CSAF
- USSTRATCOM
  - AFGSC
    - 20 AF/TF214
      - ICBM Wings
      - Alert ICBM Forces
    - 8 AF/TF204/JFACC
      - B-2 Wings
      - B-52 Wings
      - Alert B-2 Forces
      - Alert B-52 Forces
Eighth Air Force

- Carries widest variety of weapons
- Recently fielded Miniature Air Launch Decoy (MALD)
- Airframe viable beyond 2040
- 76 aircraft in USAF inventory

B-52H Stratofortress

- Only long range penetrating bomber
- Recently fielded Massive Ordnance Penetrator (MOP)
- Combat capable until approximately 2058
- 20 aircraft in USAF inventory

B-2 Spirit

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12,787 Airmen and Civilians
Long range nuclear and conventional strike
3,200 sorties per year
Long Range Strike

B-52s combat mission radius unrefueled ~4,000 NM

B-52s combat mission radius with single refueling ~8,000 NM

MM-III ICBM 6,900 NM
B-1s, B-2s, and B-52s are proven workhorses

Contributed in every major operation since end of the Cold War
Operation ODYSSEY DAWN

- **B-2 Strike**
  - 4 x B-2 (3 x Strike, 1 x Airspare)
  - 32.5 hour mission round trip
  - 45 aircraft shelters destroyed
  - Over 20 aircraft destroyed on ground

- **B-1 Strike**
  - First-ever CONUS based B-1 strike
  - 21 hour mission-landed at fwd location
  - Reloaded for return mission strike
  - Destroyed key military facilities

Long-range bomber crews flew .3% of the combat sorties and struck 17% of the targets

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Twentieth Air Force

Minuteman III
- 450 remotely monitored ICBMs
- Responsive, secure command, control, and communication
- Historic 99+% alert rate
- Lowest cost leg of the triad

UH-1N Huey
- Nuclear security mission
- 24/7/365 alert with tactical response force onboard
- 25 aircraft in AFGSC inventory

90th Missile Wing
F. E. Warren AFB

91st Missile Wing
Minot AFB

341st Missile Wing
Malmstrom AFB

9,265 Airmen and Civilians
ICBM mission
Missile complexes combined equal the size of South Carolina

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Sustainment

**B-2**
- Extremely High Frequency SATCOM
- LO Signature & Supportability Mods
- Defensive Management System (DMS)
- Common VLF Receiver (CVR)

**B-52**
- Upgraded internal carriage
- Combat Network Comm (CONECT)
- Advanced Extremely High Frequency
- Next generation weapons

**MM-III ICBM**
- Security enhancement
- NPR & New START
- ICBM fuze refurbishment
- Support equipment

**NC3**
- POTUS communication to nuclear forces
- AFGSC is AF’s NC3 Architect
- NC3 Team integrates ops & sustainment
- Systems face obsolescence

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Pursuing a Modern Force: No Safe Haven

Ground Based Strategic Deterrent

Follow-on to MMIII – 2030
Completed CBA and ICD
FY12 $3.1M for pre-AoA activities
FY13 $11.7M and $9.4M in FY14

Long Range Strategic Bomber

Nuc-capable, long range penetrator
Effects against multiple objectives
Necessary to defeat A2/AD
FY13 - $300M | FY13 to FY17 - $6.3B

Long Range Stand-Off Missile

ALCM follow-on
Analysis of Alternatives (AoA) - FY12 4Q
AFROC/JROC - FY13 | Milestone A - FY14
Contract award - FY15

The Future is Now

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DoD Strategic Forces Funding

Strategic Funding: Constant Dollars

Funding far below historical levels before decision to cut DoD budget. Large bills coming to maintain force even at ~2/3 today’s level.

Investment Average (1962–1993) = $23.7B

Investment Average (FYDP) = $5.7B

Recapitalization

- New ICBM
- New NAOC
- New cruise missile
- New Bomber
- New SSBN
- New SLBM?

Total Funding (Billions of FY12$)

Operations & Support

Investment

Fiscal Year


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DoD and DOE Strategic Force
Dollars as % of GDP

AFGSC product, derived from OSD-CAPE and DOE funding data
DoD and DOE Strategic Force
Dollars as % of GDP with OCO

AFGSC product, derived from OSD-CAPE and DOE funding data

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In FY12 the U.S. Post Office Lost $15.9 Billion
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Challenges

- Restore and sustain a culture that embraces the special trust and responsibility of nuclear weapons...

- While maintaining our hard-earned conventional excellence

- Sustain and enhance the current force while modernizing for the future
Questions?
Air Force Global Strike Command

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