

# **Prompt Global Strike (PGS)** Information Brief

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# **Prompt Global Strike (PGS)**

### PGS addresses the capability gap to:

- Strike globally
- Precisely
- Rapidly
- With kinetic effects
- Against high-payoff time-sensitive targets
- Regardless anti-access threats
- With a Conventional Weapon
- The capability gap is identified in the PGS Initial Capability Document
  - Only option today: Pre-positioned forces or nuclear response (ICBMs and SLBMs)
  - It is not "weapons from space"

#### PGS is a USSTRATCOM priority that provides rapid conventional strike capability for anti-access and high value targets worldwide



# **Nuclear Posture Review**



"I see a great need for a capability that can reach <u>anywhere in the world under an hour</u>...with precise effects."

**CDRUSSTRATCOM Feb 05** 



# **PGS Capability Gap**

#### Gap identified by:

- USSTRATCOM Integrated Priorities List
- 2006 Air Force Capabilities Review and Risk Assessment
- Air Force and Joint studies and directives reflected in JROC-approved PGS mission needs statement, May 2003 & JROC-approved PGS ICD, Jul 2006

The Air Force is working closely w/ USSTRATCOM to fill the PGS capability gap



## **Unclassified Critical Capabilities Identified in the PGS Initial Capabilities Document**

- (1) Global The capability to strike any target set in the world; simultaneously in multiple theaters
- (2) **Prompt** The capability to strike any target set in minutes to hours with no or unambiguous warning
- (3) **Precise** The capability to accurately strike the target and achieve the desired effects
- (4) Range of Effects Provide full spectrum effects to influence, dissuade, disrupt or defeat without resorting to nuclear fission or fusion weapons
- (5) **Counter Anti-Access** The ability to penetrate or circumvent anti-access capabilities (military and political), as necessary



# Air Force PGS initiatives

- AF is currently working two interrelated initiatives to address the PGS capability gap
  - (1) AFSPC engaged in a PGS technology demo program
    - Designed to evolve, mature, and integrate critical PGS technologies
    - Supports the Command's vision for fielding a mid-term (FY14/15) Conventional Strike Missile (CSM) capability
    - As envisioned, CSM will use existing commercial/excess rocket motors to boost a medium-lift to drag hypersonic glide vehicle
    - Capable of dispensing requalified off-the-shelf munitions at global ranges from the CONUS
  - (2) PGS Analysis of Alternatives (AoA) is a joint study led by AFSPC
    - Scheduled for completion in Mar 08
    - Examines long-term (FY2020 and beyond) materiel solutions

Two phased approach addressing the mid and far term



**Conventional Strike Missile (CSM)** 

- CSM is AFSPC/CC's vision to deliver a limited PGS capability
  - AFSPC Demonstration Program
  - Uses commercial/excess rocket motors with proven avionics, transitions to a "family of motors" derived launch platform
  - Leverage demo technologies from hypersonic flight tests
  - Utilize existing off-the-shelf weapons
  - Potential for residual capability
- CDR/USSTRATCOM, "very excited...do it faster...keep it simple...integrate CSM into testimony and posture statements."

#### CSM is AFSPC/CC's vision (material solution) to fill the USSTRATCOM JROC validated PGS gap by 2014



## **Nuclear vs Conventional Signatures**

- Geographically separate basing (Coastal vs Northern tier)
- On-site inspections
- Nuclear-conventional firewalls -- unique/separate C2
- Non-provocative mission planning
- Unique trajectories

#### Packaging a suite of mitigating measures



#### Unclassified Flight differences between the Hypersonic Glide Vehicle (HGV) and a Ballistic Reentry Vehicle

- The HGV has a completely different flight profile then a ballistic reentry vehicle (RV)
- HGV flies a depressed trajectory compared to a ballistics RVs high trajectory
- HGV maneuverable (2 to 1 lift to drag) over 50% of flight time; ballistic RVs not maneuverable
- RV's located at Northern Tier bases; CSM's to be located at geographically separate coastal bases



# The HGV has a completely different profile and trajectory then a RV