

10T-1078.01

Terminal High Altitude Area Defense (THAAD) Program



Presented to: Huntsville Aerospace Marketing Association (HAMA)

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Agenda

- THAAD Program History
- Layered Ballistic Missile Defense
- Element Description
- Program Status
 - Fielding Schedule
 - Flight Tests
- Foreign Military Sales (FMS)
- Summary



THAAD Program History

THAAD 08T-1189.04





Layered Ballistic Missile Defense 2010



- THAAD provides rapid worldwide response against SRBMs and MRBMs
- Aegis provides mobile and semipermanent response against SRBMs, MRBMs and IRBMs



THAAD Element Description

THAAD 09T-1172.04



- Endo- and exoatmospheric engagements
- Shoot-Look-Shoot capability
- Hit-to-Kill
- Wide area coverage
- **Operationally flexible**
- Long range, high accuracy Radar
- Worldwide deployable by C17

THAAD Mission

To protect the United States, forward deployed forces, friends, and Allies against short and medium range ballistic missiles



- Target discrimination
- Hit assessment
- Communication link with in-flight missile
- Surveillance and target tracking
- Common with AN/TPY-2 (FB) (- software)



Radar Component



Tactical Operations Station (TOS)

Force / engagement operations managed from dual tactical operation stations

Launch Control Station (LCS)

Robust communication capabilities





THAAD Unique Battlespace



THAAD Fills The Gap Between Low-Exo and High-Endo With High Pk



THAAD Battery Fielding Schedule





THAAD Program Status (1 of 3)

Development

- THAAD completes Build 1.0 development and fields this year
- 11 flight tests completed
 - 7 for 7 successful intercepts
 - FTT-14 successful intercept 28 June 2010
 - FTT-24 will be conducted at Pacific Missile Range Facility (PMRF) 2QFY10
 - Flight testing planned at PMRF and RTS through 2016

Government Ground Testing ongoing

- Completed Climatic Testing at Eglin Air Force Base (AFB), FL
- Conducting Electromagnetic Environments Testing of Radar and TFCC
- Conducting Prime Power Unit (PPU) safety and mobility testing
- Completed Operational Assessment Testing including Force Development Experimentation (FDE) and Limited User Test (LUT)



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THAAD Previous Flight Test Incremental Growth



M

Successful

Successful

Intercept

FTT-14



FTT-14 Scenario – 28 Jun 10





THAAD Program Status (2 of 3)

Future development

- TFCC EHF and WIN-T Communication Upgrades
- BMDS Integration
- Launch on Network

Production

- 2 Batteries and 50 interceptors in production
 - Fielded capability in 2010/2011
- Major changes from PB10 to PB11 Procurement Objective:
 - Increase from 289 to 431 Interceptors
 - Increase from 12 to 18 TSGs
 - Increase from 18 to 60 Launchers (6 Launchers per Battery)
 - Total planned procurement: 9 Batteries
- Production facilities
 - Lockheed Martin, Troy, AL (Interceptor), Lockheed Martin, Camden, AR (Launcher and Fire Control), and Andover, MA (AN/TPY-2 Radar)





10T-1049.04



EHF = Extremely High Frequency TFCC = THAAD Fire Control & Communications WIN-T = Warfighter Information Network-Tactical

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THAAD Program Status (3 of 3)

10T-1049.05

Fielding

- First THAAD Battery, Alpha Battery, 4th ADA Regiment activated at Fort Bliss – 28 May 08
 - New Equipment Training and Unit Collective Training completed at U.S. Army Air Defense Artillery School at Ft. Bliss, TX
- THAAD Ground Components production completed for Batteries #1 and #2
 - Battery #1 fielded and supporting Operational Testing
- U.S. Army activated 2nd THAAD Battery, Alpha Battery 2nd ADA Regiment on 16 Oct 09
 - New Equipment Training for A-2 ADA began May 2010









1st THAAD Battery Fielded in 2009







UAE Foreign Military Sales (FMS) Case Overview



FOL

Fiber Optic Links



Summary

Q: ... If North Korea's missile test had been more successful, how would it have changed your view on this budget, specifically with missile defense?

SEC. GATES: It actually would not have changed it at all.... as General Cartwright said, for the terminal phase we had the THAAD missiles in Hawaii, prepared to protect Hawaii. And if it had been an intercontinental ballistic missile, the ground-based interceptors in Alaska could have taken care of that challenge as well.



... we're in a pretty good place with respect to the rogue missile -- rogue country missile threat, in terms of the ground -- in terms of midcourse and terminal phase.

- THAAD Build 1.0 capability fielding to the Army today
- Nine Batteries planned for procurement
- High COCOM demand for THAAD capability
- International interest in THAAD Foreign Military Sales Growing