THAAD and Product Support Overview
For the MDA Small Business Conference

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DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited
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Agenda

• MDA Overview

• THAAD Overview

• Product Support Requirements for set-aside
Missile Defense Agency Mission

To develop and deploy a layered Ballistic Missile Defense System to defend the United States, its deployed forces, allies, and friends from ballistic missile attacks of all ranges and in all phases of flight

Missile Defense Capability Globally Deployed
Missile Defense Agency Priorities
- In Support Of The National Defense Strategy -

• Continue focus on increasing system reliability to build warfighter confidence

• Increase engagement capability and capacity

• Rapidly address the Advanced Threat

BMDS Meets Today’s Threat but Requires Additional Capacity and Advanced Capability to Stay Ahead of the Evolving Threat
Today’s Ballistic Missile Defense System

C2BMC Command Control, Battle Management and Communications

NMCC  USSTRATCOM  USNORTHCOM  USINDOPACOM  USEUCOM  USCENTCOM

BOOST / ASCENT Defense Segment

Aegis Ballistic Missile Defense

SM-3 Standard Missile-3

Aegis Ashore

MIDCOURSE Defense Segment

GBI Ground-Based Interceptor

THAAD Terminal High Altitude Area Defense

TERMINAL Defense Segment

Aegis Sea-Based Terminal

PAC-3 Patriot Advanced Capability-3

The System Of Elements

Sensors

Satellite Surveillance
Forward-Based Radar
Upgraded Early Warning Radar
AEGIS BMD SPY-I Radar
Sea-Based X-Band Radar

NMCC USSTRATCOM USNORTHCOM USINDOPACOM USEUCOM USCENTCOM
THAAD Capabilities Overview

• Defends against short-, medium- and limited intermediate-range ballistic missiles
• High firepower and sustainability for resistance to mass attack
• Both endo and exoatmospheric intercept capability
• High lethality with proven hit-to-kill
• Interoperable with other Ballistic Missile Defense (BMD) Systems
• Dedicated to BMD missions – positioned to counter prevailing threat
• High single-shot kill probability provides cost effectiveness

THAAD Provides Unique and Cost-Effective Capabilities for Critical Ballistic Missile Defense Missions
THAAD Configuration

Launcher Component

- HEMTT-based launcher
- 8 Interceptors per Launcher
- 6 Launchers per Battery
- 30-min reload
- Highly-mobile

Key System Attributes

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

Interceptor Component

- Hit-to-Kill lethality
- Uncooled sapphire window
- Infrared gimbaled seeker
- Single-stage solid-propellant booster with thrust vector control
- Liquid bi-propellant Divert and Attitude Control System (DACS)

THAAD Fire Control and Communications (TFCC) Component

- One Tactical Station Group (TSG) contains:
  - Tactical Operations Station (TOS)
  - Force / engagement operations managed from dual tactical operation stations
  - Launch Control Station (LCS)
  - Robust communication capabilities
  - Station Support Group (SSG)
  - Antenna Support Vehicle (ASV)
  - Cable Support Vehicle (CSV)

AN/TPY-2 (TM) Radar Component

(Field Support not being set-aside)

- Target discrimination
- Hit assessment
- Communication link with in-flight missile
- Surveillance and target tracking
- Common with AN/TPY-2 (FBM)
- Radar components: Antenna Equipment Unit (AEU), Electronic Equipment Unit, (EEU) Cooling Equipment Unit (CEU), Prime Power Unit (PPU)

Peculiar Support Equipment (PSE)

- Battery Support Center (BSC)
- Missile PSE
- Interim Contractor Support System (ICSS)

AEU
CEU
EEU
PPU

Single Missile Round Transport Container (SMRTC)
THAAD Active Leak Sensor System (TALSS)
Missile Round Pallet – Transportable (MRP-T) Trailer

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THAAD Battery Status

Battery Updates
US Batteries
• E/3 Forward Stationed; Operational Mission Support
• D/2 Forward Stationed; Operational Mission Support
• A/4 Ready Battery
• A/2 Normal Operations
• B/2
• E/62
• B/62

UAE Batteries
• UAE Battery A: Operational Mission Support
• UAE Battery B: Operational Mission Support

As of: 31 May 19
THAAD Contribution to the BMDS

Provide Combatant Commanders a globally-transportable, rapidly-deployable capability to intercept and destroy short-range, medium-range, and limited intermediate-range ballistic missile threats inside or outside the atmosphere during terminal phase of flight.

THAAD Unique Battlespace

- SM-3
- THAAD / SM-3
- THAAD Atmosphere Transition Region
- Exo
- Endo

Battlespace

- Aegis SM-3
- THAAD / SM-3
- THAAD
- PAC-3 / MSE / SM-6 DUAL 1
- SM-6 DUAL 1

Threat Range

- SRBM
- MRBM
- IRBM

THAAD Fills the Gap Between Low-Exo and High-Endo with High Pk
Draft Set-Aside
Work Scope Overview

• **CLS Manager**- Manage support of fielded THAAD-peculiar equipment in areas such as:
  - Maintenance
  - Sustainment
  - Supply

• **Contractor Maintenance Support**- Embedded Contractor Logistics Support (CLS) Teams responsible for Maintenance of THAAD Peculiar Equipment

• **Augmentation Team**- Additional support to the CLS Teams, as needed

• **Supply Chain Management**- Conduct supply support activities in areas such as:
  - Maintain warehouse equipment
  - Material handlers
  - Quality Assurance/Safety
  - Inventory control

• **Maintenance Support to the THAAD Instructional Division**- In support of the Institutional Training Base (ITB) at Ft. Sill, OK.
Draft Schedule

• Draft Request for Proposal release-August 2019

• Industry Day #1- August 2019

• Final Request for Proposal release-October 2019

• Industry Day #2-October 2019

• Proposals Due-December 2019

• Award date: May 2020

Draft Information-Subject to Change
Summary

- First time competitive set-aside for Product Support functions
- Award targeted for May 2020
- Industry Days planned for both draft and final Request for Proposal releases
- Break out session (Room #1) June 26th 1500-1700 for more specific information
  - Provide more information on requirements and acquisition
  - Seeking feedback to incorporate into draft Request for Proposal that is under development
Questions?
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