AMRDEC UPDATE

IAW DoD Directive 5230.24, insert appropriate distribution statement

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

Presented by:
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Director
U.S. Army Aviation and Missile Research, Development, and Engineering Center

Date: February 7, 2018
• Dr. Juanita M. Harris
  – Aviation and Missile Research Development & Engineering Center Director (AMRDEC)

• Army Future Modernization Command (FMC)
  – 6 CFT Priorities

• Section 815 Other Transaction Agreement (OTA)

• Questions & Answers
• Born/Raised in East St. Louis, IL

• 7th of 8 children
  – Family lives St. Louis, MO / Illinois Area;
    Brother in CA

• Engaged to David Christensen

• 3 Children

Kenneth
Camille
Clayton
Who is Dr. Harris?

– Professional –

EDUCATION

• BS Computer Engineering, University of Illinois, 1985
• MA Computer and Information Systems Management, Webster University, 1994
• DM Doctor of Management, University of Phoenix, 2011
  – Organizational Leadership

CAREER: 30+ YEARS

• Industry
  – McDonnell-Douglas: F-18, F-15, Tomahawk Cruise Missile, A-12
  – SETA Support Contractor
    ▪ Comanche PMO
    ▪ SHORAD (CMDS)
    ▪ UAS PMO

• Civilian
  – Deputy PM/PM, MDA HWIL, SMDC
  – Tech Division Chief, UAS PMO, PEO Aviation
  – Deputy Director, ADD, AMRDEC
  – Acting Director Engineering (ED), AMRDEC
  – Director, WDI
• **ENTJ** (360 degree Evaluation)

• **Leadership Styles**
  – Servant Leader
  – Transformational Leader
    ❖ Visionary
    ❖ Change Agent
    ❖ Model Theory (Lead by Example)
    ❖ Workforce Development

• **Other Professional Values**
  – Technical Competence
  – Professional Accountability
  – Empowerment
  – Mentorship
  – Work Life Balance
Lines of Effort

**Lines of Effort**

- **Strategic Readiness**
- **Future Force**
- **Soldiers & People**

- **Sustainable/Materiel Readiness**
- **Human Dimension**
- **Resource Management**
- **Future Force**
- **Integrated Technology Development**
- **Talent Management & Infrastructure**
- **Business Process**
- **Strategic Communications**

**AMRDEC**

- **Integrated Tech Development & Engineering Services**
- **Sustainable/Materiel Readiness**
- **Future Force**
- **Human Dimension/Resource Management**
• Vision
  – I will always push for AMRDEC enterprise solutions, but expect our team members to serve in their own mission lines.

• Mission & Focus
  – Establish our strategic plan which should align with the RDECOM /AMCOM and AMC strategic plans
  – Products → People → Processes → Partnerships
    • mission enhancement
    • workforce development
    • supervisory responsibilities
    • combined outputs

We Are AMRDEC
AMRDEC Industry Days

- 10 - 12 April 2018
- 7:30 am – 4:30 pm
- Diane Campbell Conferencing Center
  Building 3711, Redstone Arsenal, Alabama
Registration Available: [https://conference.redstone.army.mil/](https://conference.redstone.army.mil/)

Outlining the current and future strategy related to AMRDEC Aviation and Missile Science & Technology

The purpose is to optimize communication and collaboration across the government, industry and academia enterprise. This event will outline the current and future strategy related to the AMRDEC Aviation and Missile Science and Technology and directorates. Information about upcoming new programs and project overviews will be provided, in addition to experimental results and project plans for future Aviation and Missile S&T sponsored research. Focus areas include air defense, fire support, ground tactical, aviation weapons, mission systems, platforms, sustainment, concept designs and assessment, power, basic research and contracting opportunities.
Army Modernization Priorities

#1: Long Range Precision Fires

#2: Next Gen Combat Vehicles (NGCV)

#3: Future Vertical Lift (FVL)

#4: Network/C31

#5: Air & Missile Defense

#6: Soldier Lethality

WHAT WE KNOW:

- The Army Futures & Modernization Command will stand up July 2018 (IOC), with FOC by July 2019
- Modernization strategy has one focus: make Soldiers and units more lethal to win our Nation’s wars and come home safely.
- Process will leverage commercial innovations, cutting edge science and technology, and warfighter feedback.
Long Range Precisions Fires (LRPF)

CSA MODERNIZATION PRIORITY:
Long Range Precision Fires

ARMY OPERATIONAL FOCUS:
- Extended Range
- Expand Coverage
- Enable Cross-Domain Fires

AMRDEC S&T EFFORTS:
- Low-Cost Tactical Extended Range Missile (LC TERM)
- Seekers
- Precision Target Acquisition Seeker (PTAS)
- Land-Based Anti-Ship Missiles (LBASM)
- Long Range Maneuverable Fires (LRMF)
CSA MODERNIZATION PRIORITY:
Future Vertical Lift (FVL)

ARMY OPERATIONAL FOCUS:

- Expanded Reach & Protection during Movement of Forces
- Increased payload, maneuverability & performance
- Degraded Visual Environment
- Manned-Unmanned Teaming

AMRDEC S&T EFFORTS:

- Joint Multi-Role Technical Demonstration (JMR-TD)
- Modular Open Systems Approach
- NextGen Tactical UAS
- Multi-Role Small Guided Missile (MR-SGM)
- Single Multi-Mission Attack Missile (SMAM)
- Degraded Visual Environment-Mitigation
CSA MODERNIZATION PRIORITY:
Air & Missile Defense

ARMY OPERATIONAL FOCUS:
- Mobile and Survivable Maneuver Short Range Air Defense (M-SHORAD)
- Counter UAS
- Operate within a Contested Environment

AMRDEC S&T EFFORTS:
- Low-cost Extended-Range Air Defense (LowER-AD)
- Maneuvering Air Defense Technologies (MADT)
- Digital Array Radar Testbed (DART)
OTHER TRANSACTION AGREEMENT (OTA)
• ACC-RSA and AMRDEC partnered to establish **Section 815 Other Transaction Agreement (OTA)** for the development and maturation of guided weapons systems technologies and aviation and missile manufacturing technologies

• OTA will broaden available acquisition vehicles to meet the technical and programmatic requirements of the US Army and DoD modernization initiatives
  
  – *Attract innovative new technologies and spur development of technology and prototypes* as well as *advanced manufacturing techniques*
  
  – Critical to the Department of Defense’s *near and long-term aviation, guided weapons systems, and manufacturing goals*

• Scope: Develop, mature, integrate and test *technologies to improve the entire guided weapons kill-chain, extend range, expand the air defense coverage and enable on-the-move engagement for the maneuver force*
• OTA establishes **one consortium with collective expertise in prototype aviation, missile, and manufacturing technologies**
  – Industry
  – Academia
  – Non-profit
  – For profit

• Consortium body of members will compete for individual projects by teaming with other members based on the collective expertise required of the particular project

• **Goal** = *create teams capable of producing the innovative prototypes required by AMRDEC and DOD*
Other Transaction Agreement (OTA)

• **Competitive Cost Plus Fixed Fee (CPFF) type Agreement**
  – Administration percentage adjusted annually to reflect projected expenses and project costs for the forthcoming year
  – Adjustments for prior actual costs, actual allocation base, and billings

• The Period of Performance is planned as a **10 year agreement** from the date of award. **The estimated value of the projects to be awarded under the terms and conditions of the OTA is $2B.**

• Target award date July 2018

• 1st Prototype project estimated to be awarded NLT 31 Dec. 2018

• Estimate ~ 360 new projects a year

• For additional Information go to:
  – FedBizOps at [www.FBO.gov](http://www.FBO.gov) and search under solicitation number W31P4Q-17-X-0001
QUESTIONS & ANSWERS
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