Simulators
Program Office
SML’s Perspective
June 2017

Colonel Philip Carpenter
Simulators (AFLCMC/WNS)
Agile Combat Support (AFPEO/ACS)
(937) 255-7408
SPM’s Remarks

• Welcome / Reflections / Overview
• Acquisition Challenges
• LVC
• Cyber security
• SCARS
• I/ITSEC
• Source Selection Data Mining
Reflections

You continue to be integral to National Defense

• Training is essential to mission success
• Simulation is essential for bending the cost curve
• *Simulation is the key to high end readiness*
  • WEPTAC ’17
  • Nellis AFB VTTC
  • C-17 RFP changes

Thank you to Col Marticello and grateful for the opportunity to lead Sims

Virtual Environment is the Training Domain of Choice
Overview

Active Funds Executed (FY16)

$1.9B crossing 9 different appropriations

48 Programs / Projects supporting 9 MAJCOMs, 21 Program Offices & 14 Countries
Simulator Programs

Simulators Program Office (AFLCMC/WNS)

Air Combat Training Systems
- F-15/Bomber/Attack Trng Systems
  - A-10 ATS
  - B-1 TS
  - B-2 TS
  - B-2 TS
  - F-15 TS

Air Mobility Training Systems
- Tanker Training Systems
  - KC-10 Training Systems
  - KC-135 Training Systems
  - KC-135 BOSS (ANG)

Airlift Training Systems
- C-130 ATSG/MTS
  - C-17 Australia
  - C-130 Egypt
  - C-130 India
  - C-130 Italy

Air Force MC-130J
- MATS
- C-130 ANG RWST
- HC/MC-130J
- MAF DMO

Special Ops & UAV Trng Systems
- LVC/SCARS
- ATARS II
- AFSC ATCS
- J2C TRS
- KDAE ATARS
- PMATS

Air Education & Training Systems
- A&OP Training Systems
  - Spatial D
  - IRC
  - T-1A GBTS
  - T-53A ATD
  - T-26 SECT
  - T-38C ATS
  - URT GBTS
  - T-6 GBTS
  - VTRAT

Special Projects
- USAF New Business
- FMS New Business
- Administrative Support
- EIS Management
- Facilities
- Supplies
- T6A III
- Security
- Cybersecurity
- Safety
- CAG
- DTS

DMO Services/AWACS Trng Sys
- DMO 2
- AWACS MTC
- AWACS FCT/MTS
- AWACS DRAGON
- DTOC
- F-15C MTC
- F-16E MTC
- F-22 / F-35 DMO
- Support
Acquisition Challenges

• Manpower and resources are limited
  • More programs continue to migrate into Sims
  • Hiring freeze and difficulty finding required talent

• Transitions
  • A recurring issue...
  • Planning ahead is key, esp. concerning the workforce

• Greed vs. Fear
  • Business risk vs. technical risk
SCARS

• FY17 Focus initial effort on studies and targets of opportunity
  • Leverage existing commons and standards to maximum extent
    • Potential: Image generators, databases, network and cyber elements
  • Studies and characterization; Data collection and analysis
    • Reference Architecture – RFP shaping
  • SCARS industry day - 4th quarter FY17

• FY18
  • Follow on studies and pathfinders to refine SCARS
  • Leverage Targets of Opportunity with ongoing obsolescence and CLS activities
    • SCARS incremental conversions via planned contractual actions
  • Draft RFP early FY 18
  • RFP release for SCARS Increment 1 effort – targeted third quarter FY18

• FY19 Contract Award
  • Architecture/Standards Development & Standards Maintenance
  • Conversion of up to 3 systems including initial CLS/TSSC

Disclaimer: The information provided herein represents the Government’s best understanding of the SCARS strategy as of the presentation date. This information should be considered preliminary and subject to change.
Conclusions

• Transitions can make or break a reputation

• Balance greed vs. fear when bidding
  • We will hold you accountable to the deal...performance

• SCARS is now seen as an imperative...prepare!
  • Please review drafts and share your opinions
Simulator Common Architecture Requirements & Standards (SCARS)

Lt Col Joshua Lane
Lt Col Jeff Zdenek
AFLCMC/WNS

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SCARS – Problem Statement

Sustainment of multiple unique simulators and training devices is becoming cost-prohibitive in an increasingly demanding cyber environment

Differing underlying hardware/software configurations
Individual platform baseline management
Multiple program obsolescence states

SCARS will be a key enabler of the training systems cyber security framework.
Mission Statement

Establish a common open system architecture for AF (air) training systems across 40+ systems that enables and ensures:

• An enhanced cyber security posture
• More efficient sustainment of 40+ unique simulator baselines
• A cyber-secure sustainable virtual-constructive (VC) training system capability
• A key foundational infrastructure for Live-Virtual-Constructive training
SCARS Points of Contact

Ms. Linda Rutledge, PEO/ACS

Col Philip Carpenter, AFLCMC/WNS

Col Steven Beyer, AFLCMC/WNS

Lt Col Jeff Zdenek, AFLCMC/WNS

Mr. Heath Morton, AFLCMC/WNS

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SCARS Org Chart & SCARS Enterprise IPT

As of 25 Apr 17

ISSUE: Current manning – core team (1 dedicated; multiple part time); Required manning – 12 FTEs -2017
The Operational Training Enterprise Must Move Towards Greater Commonality Across All Domains (Air, Space, Cyber)
SCARS Next Steps

• FY17 Focus initial effort on studies and targets of opportunity
  • Leverage existing commons and standards to maximum extent
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Key Takeaways

Acquisition planning began: Jan 2016

- SCARS is enterprise standards-based activities to address cyber resilience
  - Implemented via platform training system contracts
  - Focused on enterprise efficiencies and effects
  - Adhering to key tenants of BBP 3.0
  - Addressing Open Architecture principles
- SCARS funded in FY18-22
- Ongoing Industry engagement
  - Potential studies
  - Feedback opportunities with draft RFP
  - O&I governance
- Estimated draft RFP: January 2018
- Estimated RFP: May/June 2018
- Estimated Award: Early/Mid FY 19
- Industry will obtain updates via FBO

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Air Combat Simulators

Mr. Tony Johnson
AFLCMC/WNS

Disclaimer: The information provided herein represents the Government's best understanding of the procurement as of the presentation date. This information should be considered preliminary and subject to change.
## Air Combat Simulators
### Source Selection Overview

<table>
<thead>
<tr>
<th>Simulators Division Source Selection</th>
<th>CY 2016</th>
<th>CY 2017</th>
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</table>

**Legend**
- Current Contract
- Source Selection
- Follow-on Contract
- Q1
- Q2
- Q3
- Q4
- CY 2016
- CY 2017
- CY 2018
Air Combat Training Systems Roadmap

**Manpower**
- A-10 TS SS
- E-3 Dragon SS
- B-52

**Requirements**
- TSA Refresh
- B-52 ATS
- F-22 Training Systems

**Financial**
- FY20 PB
- FY17 PB
- FY17 Ex Plan
- FY17 LRP

**New Programs**
- F-16 (Taiwan) MTC
- F-16 (Jordan)
- F-16 (Egypt)

**Follow-on (USAF)**
- F-16 EPF + ATS
- F-15E

**Follow-on (FMS)**
- F-16 Iraq CLS
- F-16 Pakistan PpP
- F-15A ATD
- F-15A MTD

**Sustainment**
- B-1 TS
- B-52 TS

**Tech Insertion**
- Secure Advanced Training Environment (SATE) Advanced Technology Demonstration (ATD)
- Definitized ATS
- Phase 2 MOA

**Enterprise**
- MP15
- MP17
- MP21
- MP22
**Current Contractor:**
Company: Aviation Training Consultants
Contract Number: FA862111-C-6252
Period of Performance: 1 Oct 12 – 30 Sep 18
Contract Value To Date: $17.3M

**Original Developer:**
Company: Unknown
Date Delivered: ~1979

**Proposed Acquisition Strategy for Follow-On Effort will use TSA III**
- Established as a Small Business Set-Aside
- Firm Fixed Price and Cost Reimbursable CLINs
- Single Award
Period of Performance: Eight (8) years/Jul 18 – Jun 26
  - Jul 18 - Dec 18: Six - Six (6)-month Base Period including 3 months of “phase in” activities
  - Jan 19 - Dec 25: Seven (7) 1-year Options with CY starts
  - Jan 26 - Jun 26: Option Period 8 (w/ 6-month option to extend services)

Preliminary Planning Value: ~$20M

**Points of Contact**
**Program Manager:** Mr. Bill Combs, AFLCMC/WNS
**Contracting Officer:** Captain Titus Butler, AFLCMC/WNS
**User:** Mr. Brooke Jensen, HQ ACC/ASTS
AWACS Maintenance Training System (MTS)

- Acquisition Planning Start: 31 Oct 16
- TSA III RFI release: 14 Nov 16
  - 9 respondents (all TSA III small businesses)
- First Industry Day: 30 Nov 16 (ICW I/ITSEC)
- Capabilities Assessment release: 27 Dec 16
- Site visit with contractors: 4/5 Apr 17
- DRAFT RFP Release (planned): 13 Jun 17
- Final RFP Release (planned): 21 Aug 17
- Award: Jun/Jul 18 (up to 3-month transition)
- Industry will obtain updates from the program office via TSA III
### Current Contractor:
The company is TRU Simulation + Training with Contract Number: FA8621-12-C-6266. The period of performance is from 1 Jan 12 – 31 Dec 18. The contract value to date is $89.3M.

### Proposed Acquisition Strategy for Follow-On Effort
- Small Business Set Aside vs Full and Open, TBD
- Firm Fixed Price, FPIF and Cost Reimbursable CLINs
- Single Award
- Period of Performance: 4-month transition (Sep 18 – Dec 18)
- Base (1 Jan 19 – 31 Dec 19); Seven 1-year options
- Preliminary Planning Value: $150 - $250M

### Points of Contact
- **Program Manager**: Mr. Curt Hangen, AFLCMC/WNSA
- **Contracting Officer**: Mr. Jarrett Stamper, AFLCMC/WNSK
- **User**: Mr. Dan Willson, HQ AFGSC/A5B
B-1 TS
Anticipated Schedule for Follow-On Effort

- Acquisition Planning Start: 1 Mar 17
- First Industry Day: Jun 17
- RFP Release: Sep 17
- Award: Sep 18

- Capability Assessment sent out 12 Apr 17
- Contract advertised through TSAIII Website
## Points of Contact

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<th>End User</th>
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<td>F-16 MTC/TS</td>
<td>Peter Herrmann</td>
<td>Jonathan McGugin</td>
<td>Richard Grohs</td>
</tr>
<tr>
<td>Office</td>
<td>AFLCMC/WNS</td>
<td>AFLCMC/WNS</td>
<td>HQ ACC/ASTN</td>
</tr>
<tr>
<td>Phone</td>
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<td>(937) 255-4908</td>
<td>(757) 764-9020</td>
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<tr>
<td>Email</td>
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<td><a href="mailto:John.mcguigin.1@us.af.mil">John.mcguigin.1@us.af.mil</a></td>
<td><a href="mailto:richard.grohs@us.af.mil">richard.grohs@us.af.mil</a></td>
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<td>AWACS MTS</td>
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<td><a href="mailto:titus.butler@us.af.mil">titus.butler@us.af.mil</a></td>
<td><a href="mailto:brooke.jensen@us.af.mil">brooke.jensen@us.af.mil</a></td>
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<tr>
<td>B-1 TS</td>
<td>Phillip (Curt) Hangen</td>
<td>Steve Godby</td>
<td>Daniel Willson</td>
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<td><a href="mailto:steve.godby@us.af.mil">steve.godby@us.af.mil</a></td>
<td><a href="mailto:daniel.willson.5@us.af.mil">daniel.willson.5@us.af.mil</a></td>
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## Air Mobility Branch Overview

**The Home of Concurrent, Affordable Training**

### Simulators Division Source Selections

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### Today

- **C-130 ATS**
- **C-17 TS**
- **C-5 ATS**
- **KC-10 TS**
- **KC-135 ATS**
- **KC-46 ATS**
- **KC-46 MTS**
- **KC-135 BOSS**
- **MAF DMO**

### Legend

- **Contract PoP**
- **Contract Extension**
- **SS Pre-RFP Planning**
- **RFP to Award**
### Current Contractor:
- Company: ATS—Lockheed Martin Mission Systems and Training
- Contract Number: FA8223-11-C-0001
- Period of Performance: 1 Nov 10- 31 Dec 10 Basic, Eight one year options – Current is Jan 16 to Dec 2016. Last option ends 31 Dec 2018

### Original Developer:
- Company: WSTs—Link (Legacy), Hughes (Dobbins), and Boeing (AMP)
- Date(s) Delivered: WSTs— early 1980s, 1998, 2013

### Proposed Acquisition Strategy for Follow-On Effort (Notional)
- TSA III, Competitive
- Firm Fixed Price and Cost Reimbursable CLINs
- Period of performance: Basic plus option years
- Base plus option years; Start Jan 19 or earlier
- Estimated Contract Value: $400M plus

### Points of Contact
- **Program Manager**: Mr. Steve Grotjan, AFLCMC/WNSM
- **Contracting Officer**: Mr. Dustin Tatum, AFLCMC/WNSK
- **User**: Mr. Scott Hudson, HQ AMC/A3T

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**C-130 Training System**
C-130 Aircrew Training System
Proposed Schedule for Follow-On Effort

• Acquisition Planning Start: Fall 16
• First Industry Day: Summer 17
• RFP Release: Winter 17
• Award: Jan 19

• Industry will obtain updates from the program office via TSA III or FedBizOps
# C-17 Training System

The Home of Concurrent, Affordable Training

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<td>Contract Number: FA8621-11-D-6261</td>
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<tr>
<td>Company: Boeing</td>
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<td>Date Delivered: Various</td>
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Proposed Acquisition Strategy for Follow-On Effort

- Full and Open TSA III Vendors
- Firm Fixed Price and Cost Reimbursable CLINs
- Single award
- Period of performance: 90 day transition; 1-year base (Aug 18 – Aug 19) + up to 5 one-year options
- Estimated Contract Value: $986M

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<tr>
<td>Program Manager: Mr. Will Hayden/Mr. Jacob Kolb, AFLCMC/WNSM</td>
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<td>Contracting Officer: Ms. Sarah McElhenny, AFLCMC/WNSK</td>
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<tr>
<td>User: Mr. Scott Haak, HQ AMC/A3TR</td>
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C-17 Training System
Proposed Schedule for Follow-On Effort

- Acquisition Planning Start: 31 Jul 15
- First Industry Day: 29 Feb 16 – 1 Mar 16
- Second Industry Day: 19-20 Apr 16
- Third Industry Day: 2 Dec 16
- Fourth Industry Day: 9 May 17
- Fifth Industry Day: Jul 17
- RFP Release: Aug 17
- Award: Aug 18

- Post Bidder’s Library to FBO / TSA III Collaboration
  SharePoint
## Points of Contact

*The Home of Concurrent, Affordable Training*

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<th>Program</th>
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<td>Mr. Steve Grotjan</td>
<td>Mr. Dustin Tatum</td>
<td>Mr. Scott Hudson</td>
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<tr>
<td></td>
<td>Office</td>
<td>AFLCMC/WNSM</td>
<td>HQ AMC/A3TA</td>
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<td>Phone</td>
<td>937-255-2927</td>
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<td><a href="mailto:stephen.grotjan.1@us.af.mil">stephen.grotjan.1@us.af.mil</a></td>
<td><a href="mailto:Scott.hudson@us.af.mil">Scott.hudson@us.af.mil</a></td>
</tr>
<tr>
<td>C-17 ATS</td>
<td>Mr. Will Hayden</td>
<td>Ms. Sarah McElhenny</td>
<td>Mr. Scott Haak</td>
</tr>
<tr>
<td></td>
<td>Office</td>
<td>AFLCMC/WNSM</td>
<td>HQ AMC/A3TA</td>
</tr>
<tr>
<td></td>
<td>Phone</td>
<td>937-255-4393</td>
<td>618-229-3583</td>
</tr>
<tr>
<td></td>
<td>Email</td>
<td><a href="mailto:willie.hayden@us.af.mil">willie.hayden@us.af.mil</a></td>
<td><a href="mailto:scott.haak.1@us.af.mil">scott.haak.1@us.af.mil</a></td>
</tr>
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</table>
## SOF/AETC Branch Overview

### Simulators Division Source Selections

<table>
<thead>
<tr>
<th>Selections</th>
<th>CY 2016</th>
<th>CY 2017</th>
<th>CY 2018</th>
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<tr>
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<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
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<td>AFSOC ACTS</td>
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<td><img src="#" alt="AFSOC ACTS CY 2017 Q1-Q4" /></td>
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<td><img src="#" alt="PMATS CY 2017" /></td>
<td><img src="#" alt="PMATS CY 2018" /></td>
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</tbody>
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**Legend**

- Contract PoP
- Contract Extension
- SS Pre-RFP Planning
- RFP to Award

*Note: The table and diagram depict the status of Simulators Division Source Selections over the years Q1 to Q4.*
**Towers Training System (TSS)**

**The Home of Concurrent, Affordable Training**

<table>
<thead>
<tr>
<th>Current Contractor:</th>
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<tbody>
<tr>
<td>Company: Adacel Systems, Inc.</td>
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<tr>
<td>Contract Number: FA8621-14-C-6321</td>
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<tr>
<td>Period of Performance: 01 Dec 13 – 30 Nov 18</td>
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</table>

<table>
<thead>
<tr>
<th>Original Code Developer:</th>
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</tr>
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<tbody>
<tr>
<td>Company: Adacel</td>
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</tbody>
</table>

**Proposed Acquisition Strategy for Follow-On Effort**

- Market Research will be performed to determine whether Small Business Set-Aside
- Firm Fixed Price and Cost Reimbursable CLINs
- Single award
- Period of performance: 5 years (1 base, 4 options)
  - 90-Day Transition
  - Estimated Contract Value: $19M to $25M

<table>
<thead>
<tr>
<th>Points of Contact</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Manager:</td>
<td>Mr. Mike Hopkins, AFLCMC/WNSS</td>
</tr>
<tr>
<td>Contracting Officer:</td>
<td>Ms. Kerisha Wordlaw, AFLCMC/WNSK</td>
</tr>
<tr>
<td>User:</td>
<td>Mr. Jim Roberts, AFFSA/XR</td>
</tr>
</tbody>
</table>
Towers Training System (TSS)

- Acquisition Planning Start: Jun 17
- First Industry Day: TBD
- RFP Release: TBD
- Estimated Award Date: 31 Dec 18

- Industry will obtain updates from the program office via TSA III or FedBizOps
PMATS
Proposed Schedule for Follow-On Effort

• Acquisition planning begins: 1 Oct 17
• Estimated Award: 1 Sep 19

• Industry will obtain updates from the program office via TSA III or FedBizOps
# Points of Contact

<table>
<thead>
<tr>
<th>Program</th>
<th>PM</th>
<th>Contracts</th>
<th>End User</th>
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<tr>
<td>TSS</td>
<td>Mr. Mike Hopkins</td>
<td>Ms. Kerisha Wordlaw</td>
<td>Mr. Jack Celie</td>
</tr>
<tr>
<td>Office</td>
<td>AFLCMC/WNSS</td>
<td>AFLCMC/WNSK</td>
<td>AFFSA/XRR</td>
</tr>
<tr>
<td>Phone</td>
<td>937-656-8073</td>
<td>937-656-8153</td>
<td>405-734-5622</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:michael.hopkins.18@us.af.mil">michael.hopkins.18@us.af.mil</a></td>
<td><a href="mailto:kerisha.wordlaw.1@us.af.mil">kerisha.wordlaw.1@us.af.mil</a></td>
<td><a href="mailto:Jack.celie.2@us.af.mil">Jack.celie.2@us.af.mil</a></td>
</tr>
<tr>
<td>PMATS</td>
<td>Kyle Shelton</td>
<td>Mr. Bill Oswald</td>
<td>Mr. Mark Winfield</td>
</tr>
<tr>
<td>Office</td>
<td>AFLCMC/WNSS</td>
<td>AFLCMC/WNSK</td>
<td>ACC/A5</td>
</tr>
<tr>
<td>Phone</td>
<td>937-656-8161</td>
<td>937-656-8283</td>
<td>757-764-2243</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:Kyle.shelton.2@us.af.mil">Kyle.shelton.2@us.af.mil</a></td>
<td><a href="mailto:William.oswald@us.af.mil">William.oswald@us.af.mil</a></td>
<td><a href="mailto:Mark.Winfield.1@us.af.mil">Mark.Winfield.1@us.af.mil</a></td>
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