

# Air Force Materiel Command

---



## Common Support Equipment (CSE) Solutions

(Create Uncommon Acquisition and  
Sustainment Challenges)

CMSgt Thomas Sprague  
Lead Command CSE Manager  
HQ AFMC/A4MM  
24 Mar 14



# Overview

---

**Intro to Common Support Equipment**

**Lead Command Roles & Responsibilities**

**Common Support Equipment Challenges**



# Support Equipment Categories

## Automatic Test Equipment (ATEs)



&

Test, Measurement, & Diagnostic Equipment

## Aerospace Ground Equip



## Propulsion Equipment



## Munitions Materiel Handling Equipment





# Common vs. Peculiar Defined

|                   | <b><u>Common</u></b>   | <b><u>Peculiar</u></b>                                   |
|-------------------|--|--|
| <b>Supports</b>   | More than One Weapon System  | One Weapon System  |
| <b>Funded</b>     | Centrally<br>(AFMC is Lead Command)                                | By Weapon System<br>(Weapon System Lead Command is Lead) |
| <b>Managed By</b> | Support Equipment & Vehicles<br>& Automatic Test Systems Divisions | Peculiar Weapon System Program Office                    |



# Common or Peculiar?

## Common



MD-1 Universal Towbar  
(Supports F-16, A-10, C-130,  
Global Hawk, etc.)

## Peculiar



C-17 Peculiar Towbar



# Common or Peculiar?

## Peculiar



PD-501 Air Conditioner  
(Supports B-2 Only)

## Common



ACU-808 Large Air Conditioner  
(Supports: B-1B, C-32, E-3,  
E4B, E-8C, RC-135)



# Common or Peculiar?

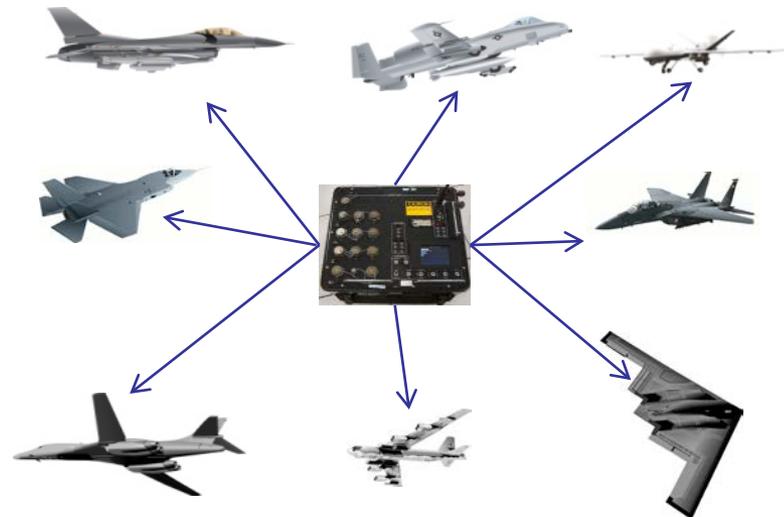


## Peculiar

(Armament Testers for F-15)

**Alternative:**

Common Armament Tester





# Common or Peculiar?

## Trick Question - Kind of...



New Universal Hydraulic Test Stand – Supports all 1- and 2-hydraulic system aircraft



Legacy Hydraulic Test Stand Supports F-16, A-10, C-130, and C-5 aircraft



# Common or Peculiar So What??

## Lamborghini Countach



Manufactured: 1974-1990

Total Produced: 2,042 (Lifetime)

Manufactured: 1998-2006

Total Produced: 561,249 (in 2002)

## BMW E46





# Common or Peculiar So What??

---

## The Rule of One



**One** Enterprise Solution

**One** Supply Chain

**One** Management Team

**One** Fix for Obsolescence

**One** System to Upgrade

**One** Bill to Pay



# Common or Peculiar So What??

## AFI 63-101/20-101

20 June 2013

**6.17. Support Equipment/Automated Test Systems (SE/ATS).** Application of standardized Support Equipment/Automatic Test Systems (SE/ATS) is preferred to provide efficiency and reduce cost. The PM shall minimize the proliferation of system-unique equipment at all levels while ensuring the maintenance and deployment requirements of existing and developing systems are met.

6.17.1. The PM shall acquire SE/ATS which is, to the maximum extent possible, common and interoperable with other Services and across multiple systems and munitions. System unique SE/ATS shall be developed or procured only as a last alternative, after coordination with the SE/ATS PGM and consideration of SE/ATS that is already in the USAF or DoD inventory.

**Takeaway:** Teamwork with SE/ATS needs to start early in RFP development and continue through system fielding



# Common Roadmap ATS – Family of Testers

Versatile Depot  
Automatic Test System



Joint Service Electronic  
Combat Systems Tester



Multi-Use System  
Test Next  
Generation



**Goal:** Standardize and Reduce  
Systems to Achieve Economic &  
Logistics Efficiency



# Common Roadmap Smart Equipment Replacements

Universal Hydraulic  
Test Stand



72kW Flight Line  
Generator



250kW Ground  
Power Unit



**Goal:** Standardize and Reduce  
Systems to Achieve Economic &  
Logistics Efficiency



---

# **Lead Command Roles & Responsibilities**



# Lead Command Role: Represent User Communities





# Lead Command Role: Manage & Sustain

## Automatic Test Equipment



&  
Test, Measurement, & Diagnostic Equipment



1,050 Unique NSNs\*



11,065 Unique NSNs

## Aerospace Ground Equipment



8,038 Unique NSNs

## Propulsion Equipment



4,393 Unique NSNs

## Munitions Materiel Handling Equipment



227 Unique NSNs

**Total: 24,773 Unique NSNs / 214M items**

\*NSN = National  
Stock Number



# Lead Command Role: Prioritize

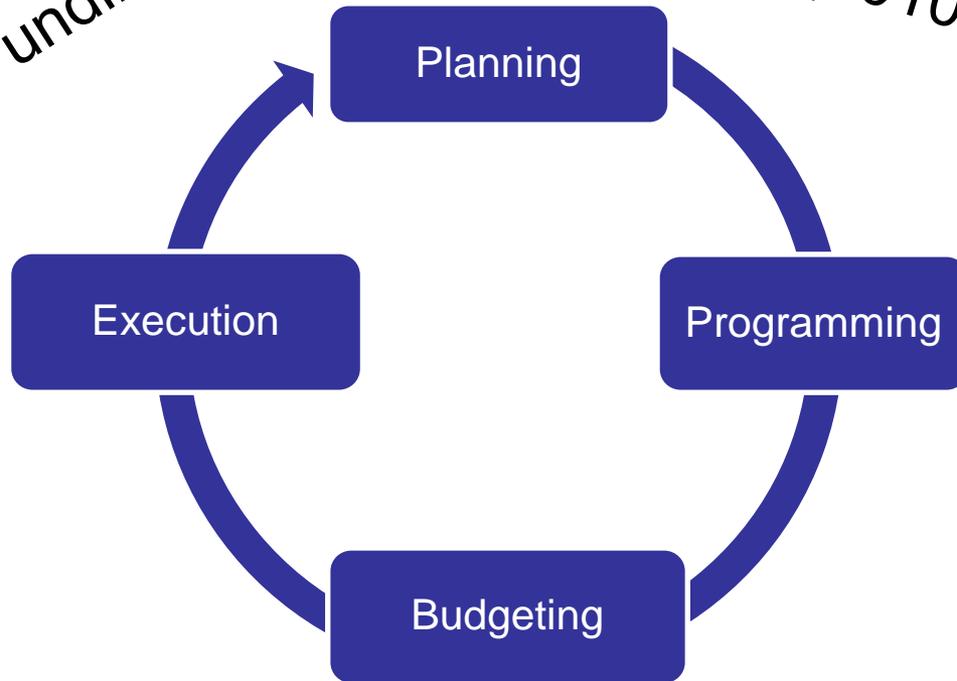




# Lead Command Role: Funding Advocate

Operations &  
Maintenance  
(3400 Funding)

Investment  
(3010 Funding)





# Lead Command Role: Initiate Programs

Federal Business Opportunities

**FEDBIZOPPS.GOV**

Home Getting Started General Info **Opportunities** Agencies Privacy

Buyers: [Login](#) | [Register](#) Vendors: [Login](#) | [Register](#) Accessibility

**Request for Information for Engine Test Stand**

Solicitation Number: FA8519-14-R-40000  
 Agency: Department of the Air Force  
 Office: Air Force Materiel Command  
 Location: PK/PZ - Robins AFB

Notice Details Packages Print Link

**Original Synopsis**  
 Mar 14, 2014 2:29 pm

[Return To Opportunities List](#) [Watch This Opportunity](#)  
[Add Me To Interested Vendors](#)

**Solicitation Number:** FA8519-14-R-40000  
**Notice Type:** Sources Sought

**Synopsis:**  
 Added: Mar 14, 2014 2:29 pm  
 The request for information is for the purpose of obtaining information relative to an upcoming procurement action in the Support Equipment and Vehicles Division at Robins AFB in relation to Engine Test Stands.

Companies are encouraged to provide responses to this questionnaire but are advised that their participation is voluntary and no reimbursement of any kind will be provided. A company's participation in the market research via this questionnaire does not obligate the Government to enter into any contractual agreement, either formally or informally, with a company.

**Responses are requested by 14 Apr 2014, 12:00 PM (EDT)**

**ALL FILES**

[RFI Questions](#)

Mar 14, 2014

[RFI Questions.docx](#)

[PWS\\_RFI.doc](#)

[PD\\_RFI.doc](#)

**GENERAL INFORMATION**

**Notice Type:** Sources Sought

**Posted Date:** March 14, 2014

**Response Date:** Apr 14, 2014 12:00 pm Eastern

**Archiving Policy:** Automatic, 15 days after response date

**Archive Date:** April 29, 2014



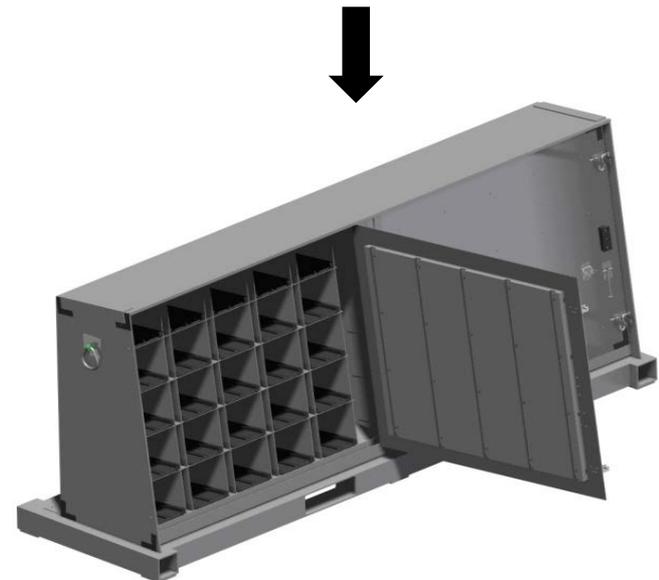
# Lead Command Role: Innovate

## Common ALE-40 Countermeasures Transportation Module



## Solution:

Develop Peculiar Solution  
that fits F-35...and all other  
countermeasures\* \* Except F-22  
(Future Replacement for ALE-40)



## Problem:

Does not fit F-35  
Countermeasures



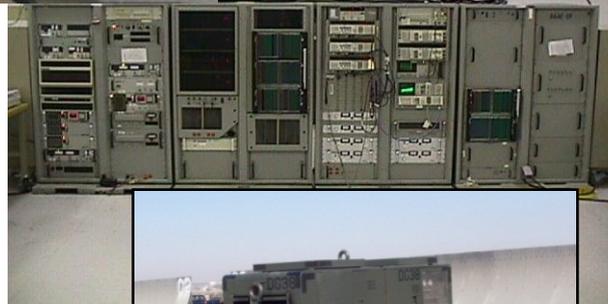
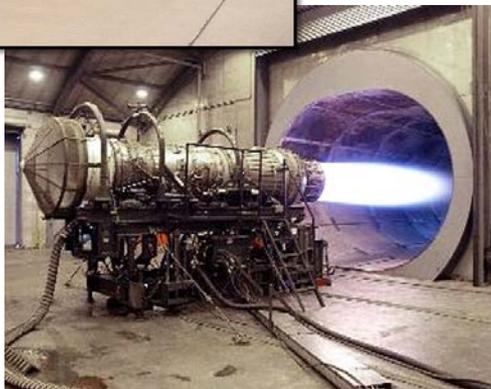
---

# Common Support Equipment Challenges



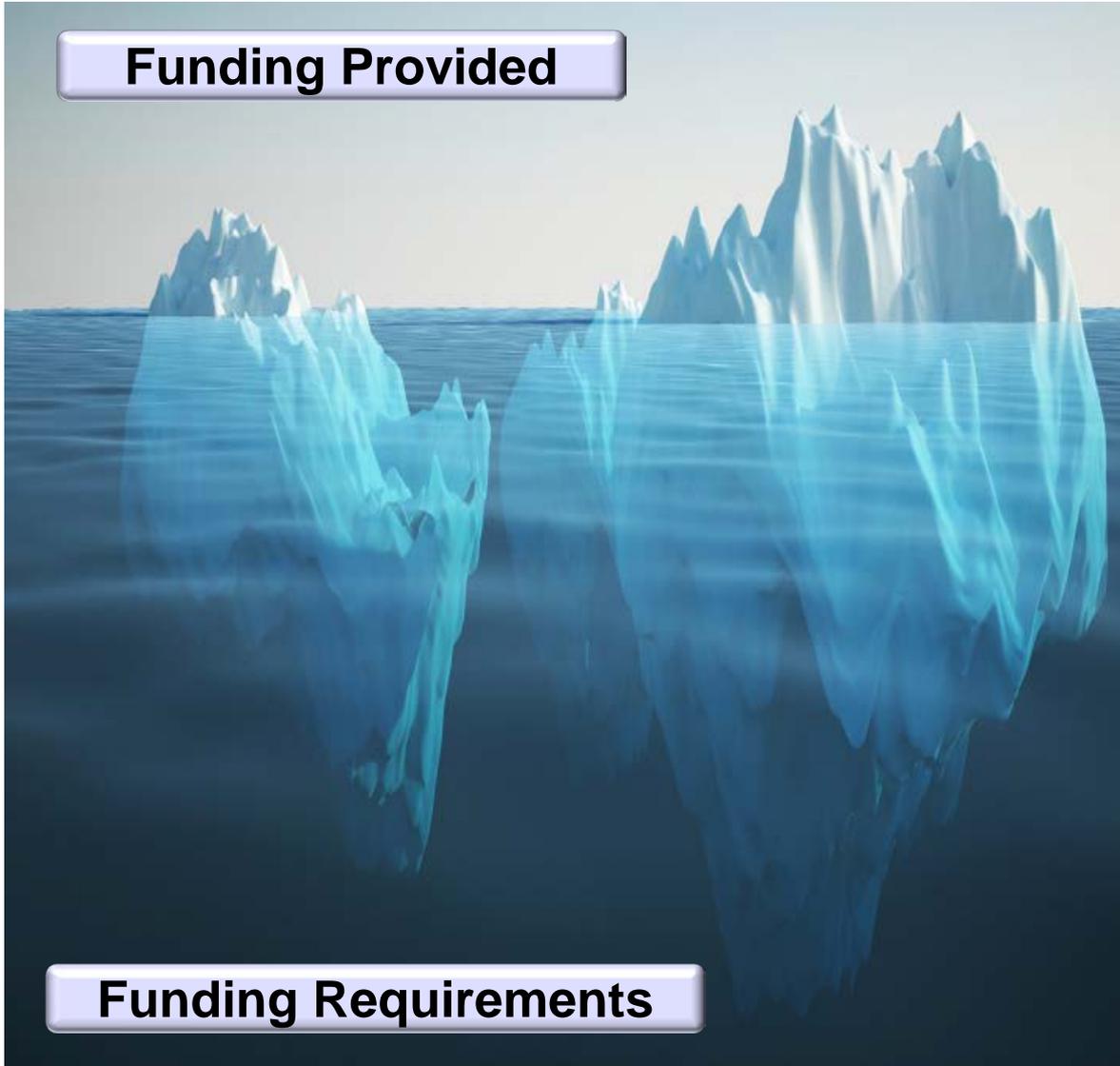
# Challenges: Limited Budgets

Too many broken pieces to fund...





# Challenges: Limited Budgets



**How Much is Below  
the Waterline?**

## The Funding Gaps

SE&V: \$672M

ATS: \$568M

(Over the FYDP)



# Challenges: Changing requirements

## Over Time...

Systems Change

Interfaces Change

Procedures Change

Technologies Change





# Challenges: Diminishing Sources of Supply

## What Do These Two Have in Common?

**MHU-141 Weapons Trailer**



**AMC Spirit (cira 1979-1983)**



### Answers:

**Age (~40 years),  
Braking System,  
&**

**Both Manufacturers are  
Out of Business**





# Challenges: Aging Equipment

## MC-1A High Pressure Air Compressor



## AC-130A (1966)



## F-4C (1960)



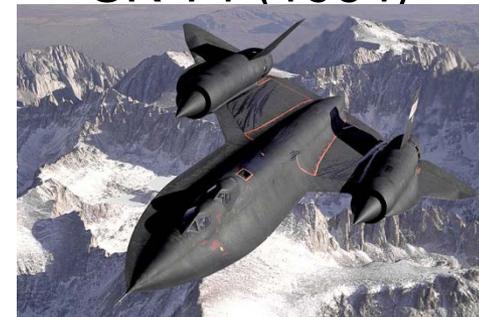
## F-111A (1964)



## KC-130F (1962)



## SR-71 (1964)





# Challenges: Knowledge Gap

---



## **Wanted:**

### **Missing Information**

Equipment Impacts on  
Mission

Equipment Problems

Equipment Workarounds

Equipment Concerns

## **Reward:**

### **Better Mission Support**



# WIFM Takeaways

---

- 1) **Common Equipment Cuts SPO Workload and AF Cost**
- 2) **Consider the Logistics Effects of Purchase Decisions**
- 3) **Initiate 'Common Equipment' Process Early (Pre-RFP)**
- 4) **Lead Command, ATS and SE&V Divisions will help**
- 5) **Communication is Key**
- 6) **Communication is Key**
- 7) **Communication is Key**



# Points of Contact

---

## AF Common Support Equipment Manager

**CMSgt Daniel Price AFMC/A4MM**

**AF Common Support Equipment Manager**

**DSN 674-0085**

## Support Equipment & Vehicles Division

**Debra Napier AFLCMC/WNZ**

**Chief, Program Integration Section**

**DSN 497-3807**

## Automatic Test Systems Division

**Michael Beasley**

**Chief, Depot/F-16 ATS Branch & Policy**

**DSN 472-3747**



