

# ***748th Supply Chain Management Group***

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## ***PTAC Symposium/Hill AFB Industry Day***

***Col Kieran Keelty  
748 SCMG/CC***





# Overview

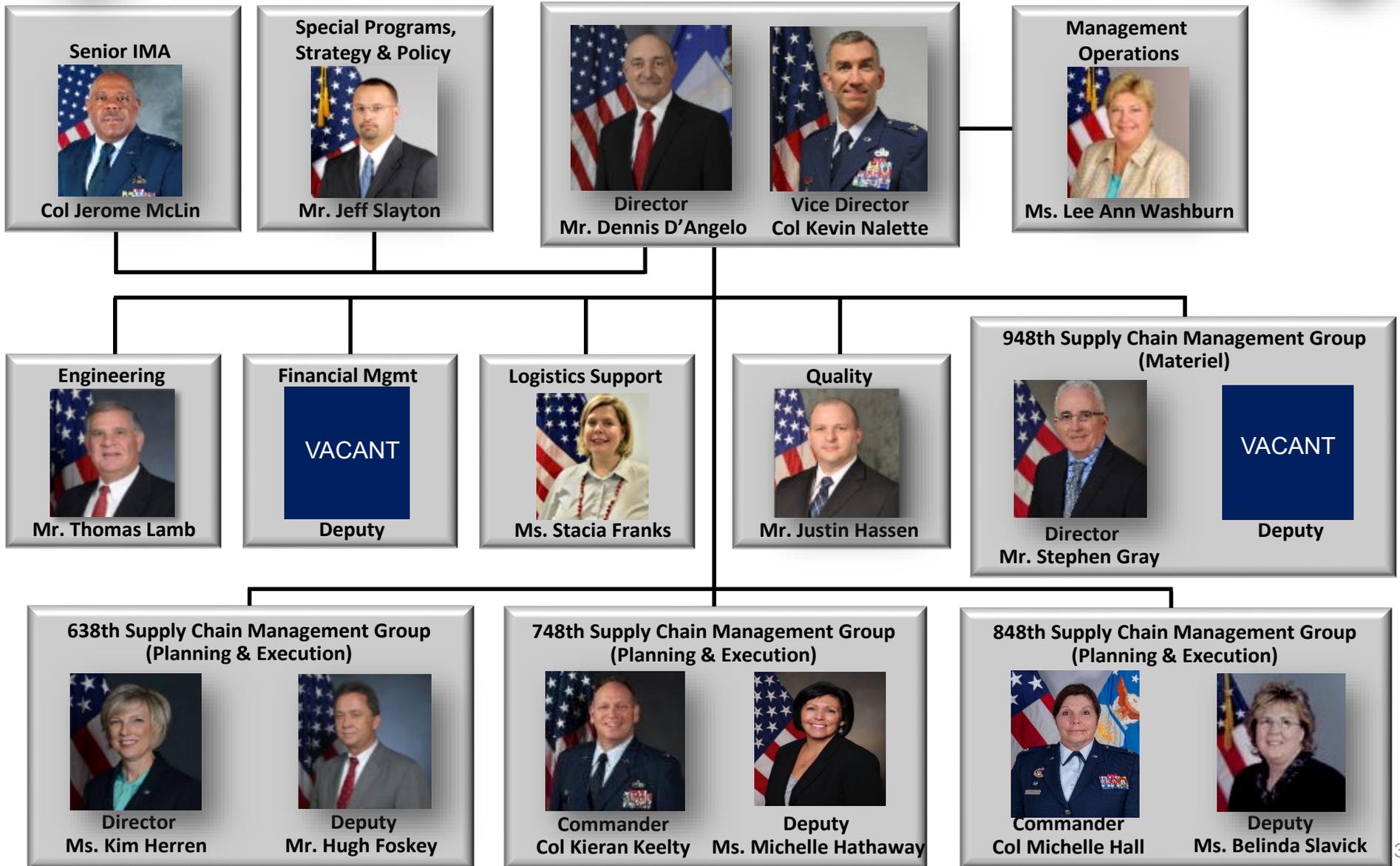


- Introduction to the 748 SCMG
- Top Challenges
- Need for Change
- Supply Chain Risk Management
- Other Opportunities
- Q&A





# 448th Supply Chain Management Wing Leadership Team





# Team Hill Supply Chain Leadership



**948 SCMG**  
Lead at Hill



**418 SCMS/CL**  
Mr. Stephen Gray

**748 SCMG**



**Commander** Col Kieran Keelty  
**Deputy** Ms. Michelle Hathaway

**PZA - Supply Chain Contracting**



**Director**  
Ms. Melinda Schmidt

**Nuclear**



**Nuclear Deputy**  
Mr. Zach Warr

**748 SCMG/EN**



**Engineering**  
Mr. Dan Christenson

**748 SCMG/DSCM**



**Depot SCM**  
Ms. Tomi Baughman

**448 SCMW OM-Hill**



**Mgmt Operations**  
Mr. Clarence Holmes

**448 SCMW/FMA**



**FM, Overhead**  
Ms. Natalie Harrop

**448 SCMW/FMR**



**FM, Requirements**  
Mr. Kevin Brown

**414 SCMS (ICBM)**



**Director**  
Ms. KyAnn Betz

**415 SCMS (Space/C3I)**



**Director**  
Mr. Regan Tingey

**416 SCMS (Aircraft)**



**Commander**  
Lt Col Jonathan Whittaker

**417 SCMS (Landing Gear)**



**Director**  
Mr. Dee Mackliet

**419 SCMS (Power Systems)**



**Director**  
Mr. David Shaw



# 748th Supply Chain Management Group (Hill AFB, UT)



## Buy/Repair Historical Budget

Buy	Contract Repair	Organic Repair
\$296M	\$332M	\$376M

## Providing Supply Chain Life Cycle Sustainment Support for:

- Intercontinental Ballistic Missiles (414 SCMS)
- Space & Command, Control, Communications and Intelligence (415 SCMS)
- Aircraft Structural and Avionics Systems (416 SCMS)
- Landing Gear (417 SCMS)
- Secondary Power Systems (419 SCMS)





# 748 SCMG Top Challenges

- Mature weapon systems...  
...sometimes very, very mature



AVERAGE WEAPON SYSTEM AGE AT RETIREMENT		
System	Projected Retirement	Age at Retirement
Minuteman III	2035	55
MILSTAR	2024	30
MUTES	2035	44
CRC	2035	49
GPS MCS	2035	40



AVERAGE AIRCRAFT AGE AT RETIREMENT			
Aircraft Type	Number of Aircraft	Projected Retirement	Age at Retirement
A-10	347	2040	59.3
B-1	66	2040	52.1
B-2	20	2058	64.2
B-52	76	2040	~79
C/KC-135	417	2045	84
C-130E	46	2012	49
C-130H	268	-	-
C-130J	68	-	-
C-5A/C	59	2011, 2012, 2040	39.5, 40.5, 68.5
C-5B/M	44/6	2040	54
C-17	206	2028	26.1
E-3	23/9	-	-
F-15	250	2025	41.8
F-15E	222	2035	43.8
F-16	1023	2026	36.3
F-16 Blk 30/32	317	2014-2025/2025	38/43
F-16 Blk 40/42	395	2016-2025/2020	35/40
F-16 Blk 50/52	245	2020-2030/2026	36/37
F-22	166	2033-2049	27-43
KC-10	59	2042	57.7
EC-130H	14	2035	62
AC-130H	8	2018	48
T-38	494	2026	~60

SOURCE: AIR FORCE SCIENTIFIC ADVISORY BOARD (2011) / PHOTOS: DEFENSE DEPT.



# 748 SCMG Top Challenges

- **Landing Gear- Outside Secondary Processes (OSP)**
  - **Comprehensive Landing Gear Integrity Program (C-LGIP)**
  - **Castings & Forgings**
- **Diminishing Manufacturing Sources and Material Shortages (DMSMS)**
- **Management of sub-tier vendors**
- **Late Proposals / Late Deliveries /No-Bid Solicitations**



*Supplying Warfighter Dominance*



# The Need for Change

- SCS Artificial Islands (2015)
- Third Offset Strategy (2016)
- National Defense Strategy (2018)
- The Big Hack: How China Used a Tiny Chip to Infiltrate U.S. Companies (2018)
  - <https://www.bloomberg.com/news/features/2018-10-04/the-big-hack-how-china-used-a-tiny-chip-to-infiltrate-america-s-top-companies>
- AF to extend lives of some KC-135s (2019)
- In testimony, Shanahan underlines it's 'China, China, China' (14 Mar 19)



January 14, 2019 | Topic: Security | Region: Asia | Blog Brand: The Buzz | Tags: DF-26, DF-21D, ASBM, China, Military, Technology, World

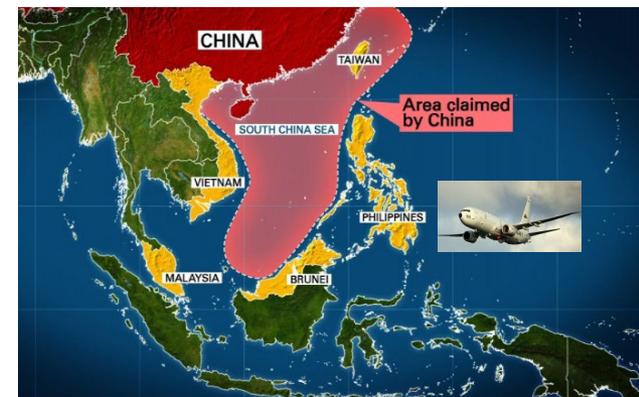
## China Just Deployed Its Deadly DF-26 "Carrier-Killer" Missiles



NEWS ARTS & LIFE MUSIC SHOWS & PODCASTS SEARCH



EUROPE  
Russia Will Deploy New Hypersonic Missile Systems In 2019, Putin Says





# *Great Power Competition, Military – Civilian Fusion*



- Under great power competition, we see the fusion of military and commercial sectors, where adversaries are weaponizing commercial activity as means of degrading US Military capability. Examples include:
  - Russia's cornering of rare earth element markets and the use of cartel-like actions
  - China's practices of commercial entity exploitation
    - Weaponized Mergers & Acquisitions (M&A)
    - Pressuring companies to transfer technology to Chinese partner companies as part of doing business with China
    - Exploiting networks of scientific, academic, and business contacts to steal IP and technology secrets
    - Controlling ports via targeted ownership and insertion of Chinese-owned technology coupled with physical access to goods in transit
    - Exploitation of DoD commercial supply chains to introduce counterfeit parts
- All of these actions are focused on Anti Access / Area Denial & Disruption, which are kinetic warfare-based strategies now entering the commercial domain

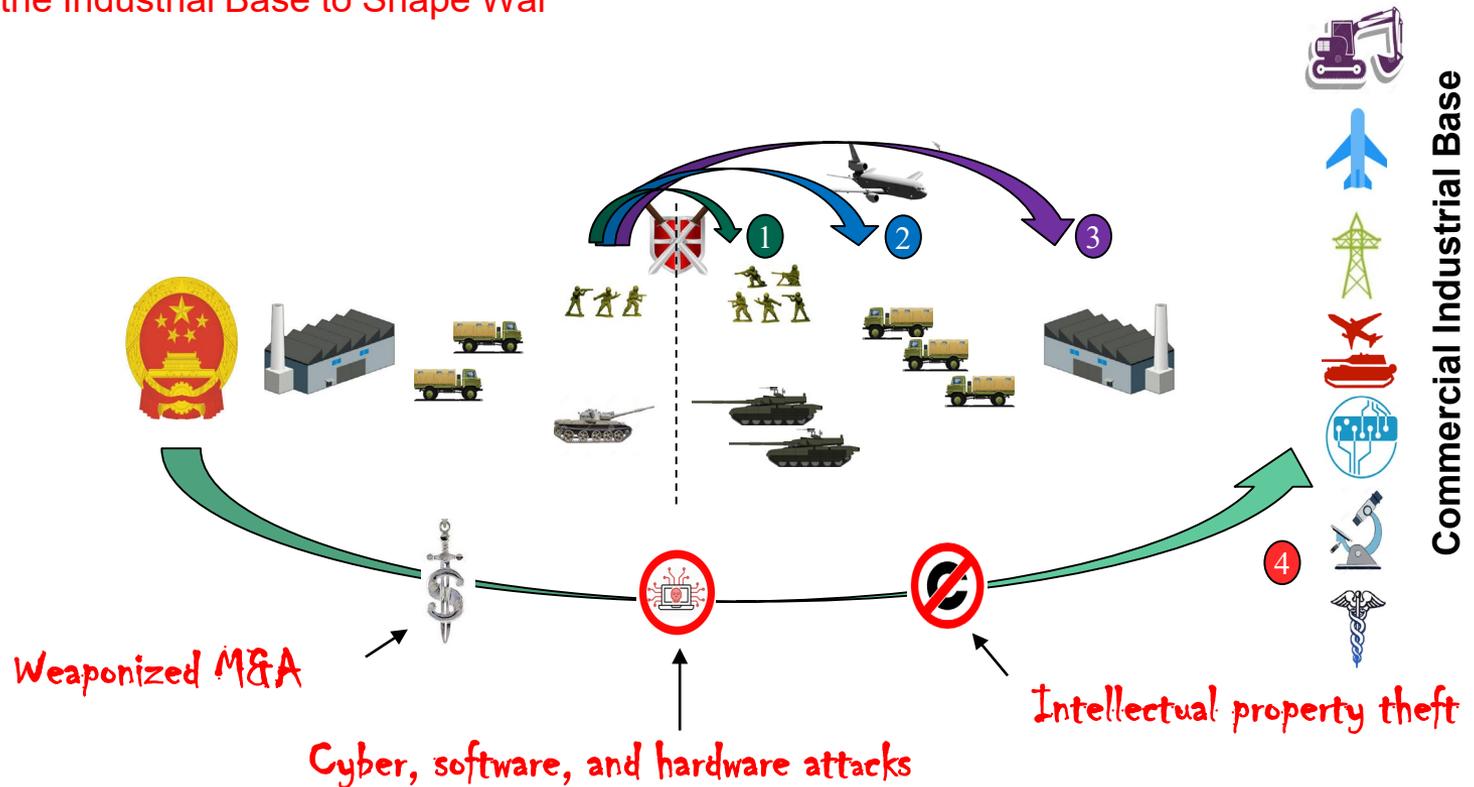


# Risk Lurking in the Industrial Base



The domain of warfare is expanding well beyond the battlefield to create a new contested space!

1. Warfare on the Battlefield
2. Warfare Against Supply Lines Feeding the Battle
3. Warfare Against War Supporting Production Capability
4. Warfare Against the Industrial Base to Shape War



*Supplying Warfighter Dominance*



# *Establishing Enterprise SCRM*

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- Establishing enterprise SCRM will...
  - ✓ Give us a capability to address the weaponization of the commercial space
  - ✓ Allow Sr Leaders to incorporate supply chain risk into the decision making
  - ✓ Allow us to better manage the commercial industrial base
  - ✓ Offer the ability to drive down program costs

## The Enterprise SCRM Vision...

“Provide Air Force acquisition programs, technology areas, and commodity areas with secure and resilient sources of supply that: ***protect our assets (physical & IP), support the continuity of our operations, provide economic efficiency*** to meet operational needs.”



# 748 SCMG Future Opportunities

- Strategic, Outcome Based Contracts vs Multiple Transactional Instruments
- Artificial Intelligence/Machine Learning
- Other Transaction Authority (OTA)





# *Additional Opportunities*



- The SASPO Website Provides Multiple Lists of Other Possible Business Opportunities
  - Reverse Engineering Opportunities
  - Target list - Items with Government owned data and limited sources
  - G Coded List - Items with full and open competition and do not require a Source Approval Request (SAR)
    - The website is publicly available at:
      - <http://www.tinker.af.mil/Home/429SCMSSASPO.aspx>
- Encourage our industry partners to share what other opportunities or strategies would incentivize them to bid on our requirements
  - “Zero to Minimum Order Quantity” Initiative
  - White Papers

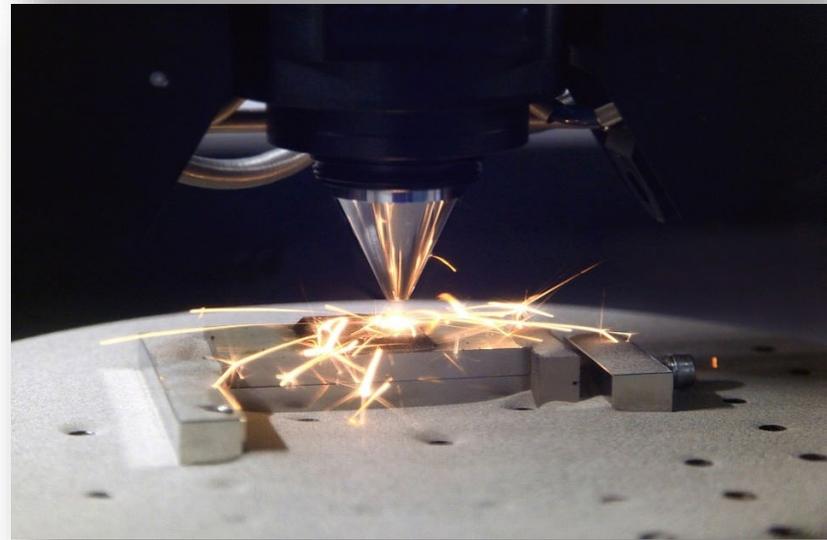


# 748 SCMG/EN

Briefer: Mr. Dan Christenson



## ***ENGINEERING EFFORTS FOR THE FUTURE***





# **748 SCMG/EN**

***Briefer: Mr. Dan Christenson***

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## ***Technical Interests/Activities***

- Artificial Intelligence – Market Research
- RF Signature Analysis – Electronic Counterfeit Parts Detection
- Magnetron Sputtering – Restoration of Dimensional Surfaces for Aluminum Landing Gear Components (inside diameters)
- Advanced Analytics – Sustainment Data Analysis (evaluation of failure, removals and upgrades)



# **748 SCMG**

## **HILL AIR FORCE BASE**

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# ***THE CUSTOMER/ REQUIREMENT HOLDER***

- 414<sup>TH</sup> SCMS ICBM
- 415<sup>TH</sup> SCMS SPACE/C3I
- 416<sup>TH</sup> SCMS AIRCRAFT
- 417<sup>TH</sup> SCMS LANDING GEAR
- 419<sup>TH</sup> SCMS POWER SYSTEMS



# 414 SCMS – ICBM

Briefer: Mr. Layne Williams  
[layne.williams.2@us.af.mil](mailto:layne.williams.2@us.af.mil)



- **Management of items to include:**
  - Nuclear Weapon Related Material (NWRM) parts
    - Accountable for all NWRM parts
  - Missile assemblies/components
  - **Launch Facility parts**
  - **Missile Alert Facility parts**
  - ICBM peculiar support equipment parts
  - Tractor/trailer parts for ICBM transportation
- **Buy/Repair Budget approximately ~\$40M**
- **NSNs managed ~9,000**



Launch Facility



Launch Control Center



B-Plug

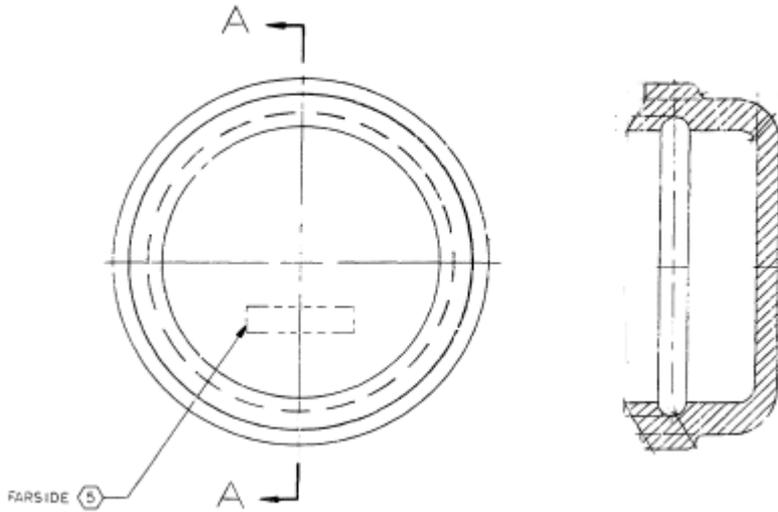


Transportation & Storage





# ICBM Boot



## Opportunity

- Provide continued sustainment of ICBM fleet
- Conduct First Article testing
- Participate in design reviews
- Conduct qualification testing
- NSN: 5975 00 460 1151 /
  - P/N: 57333-507-1
- **Note: Specification (Spec) is classified**

## Schedule

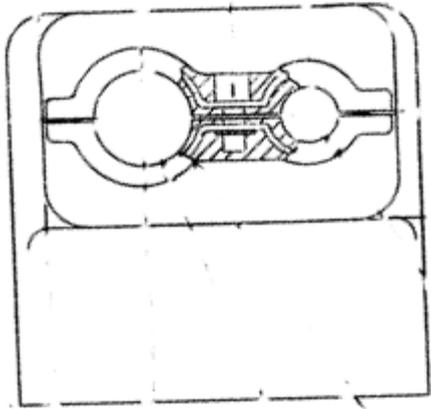
- RFP Release: Feb 19
- Contract Award: Apr 20
- Period of Performance: Apr 20 – Sept 20

## Contract Information

- Anticipated Contract Strategy:
  - ~ \$30k
  - Full and Open Competition
- Anticipated Contract Type:
  - FFP
  - POC: Mr. Scott Chadwick



# ICBM Boot



## Opportunity

- Provide continued sustainment of ICBM fleet
- Conduct First Article testing
- Participate in design reviews
- Conduct qualification testing
- NSN: 5975 00 239 9366 /
  - P/N: 57339-507-1
- **Note: Specification (Spec) is classified**

## Schedule

- RFP Release: Feb 19
- Contract Award: Apr 20
- Period of Performance: Apr 20 – Sept 20

## Contract Information

Anticipated Contract Strategy:

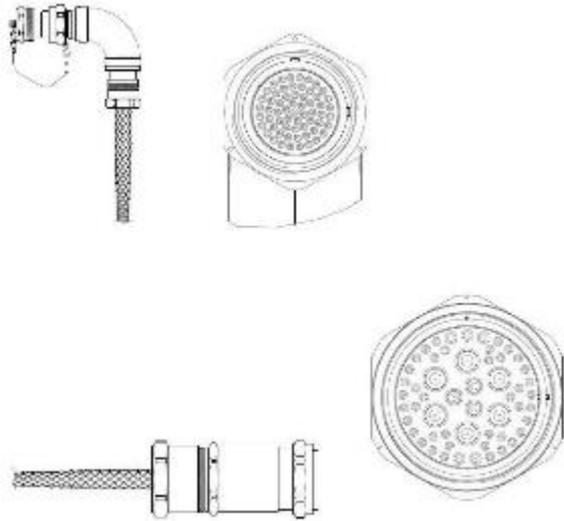
- ~ \$170k
- Full and Open Competition

Anticipated Contract Type:

- FFP
- POC: Mr. Scott Chadwick



# ICBM Cable Assembly



## Opportunity

- Provide continued sustainment of ICBM fleet
- Conduct parts obsolescence solutions
- Conduct First Article testing
- NSN: 6150 01 515 4081 / P/N: 25-93762-1

## Schedule

- RFP Release: 8 Jun 17, no bid
- Contract Award: ASAP
- Period of Performance: ~6mo-12mo after contract award

## Contract Information

Anticipated Contract Strategy:

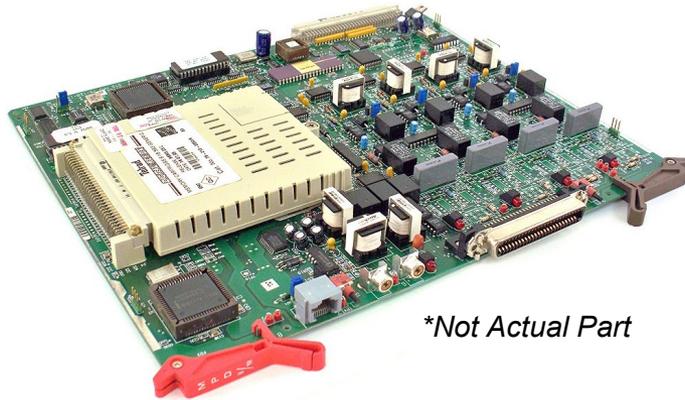
- ~ \$3k-\$5k
- Full and Open Competition

Anticipated Contract Type:

- FFP
- POC: Mr. Scott Chadwick



# ICBM Circuit Card



*\*Not Actual Part*

## Opportunity

- Provide continued sustainment of ICBM fleet
- Conduct First Article testing
- NSN: 5998 01 581 0426 / P/N: ESCTS1310-1

## Schedule

- RFP Release: May 20
- Contract Award: Aug 20
- Period of Performance: ~6mo-12mo after contract award

## Contract Information

Anticipated Contract Strategy:

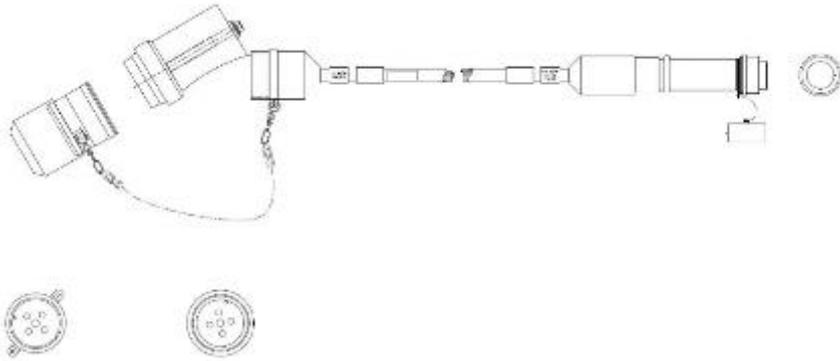
- ~ \$5k-10k
- Full and Open Competition

Anticipated Contract Type:

- FFP
- POC: Mr. Scott Chadwick



# ICBM Cable Assembly



## Opportunity

- Provide continued sustainment of ICBM fleet
- Conduct First Article testing
- NSN : 6150 00 488 4583 / P/N: 25-64722-1

## Schedule

- RFP Release: May 20
- Contract Award: Aug 20
- Period of Performance: ~6mo-12mo after contract award

## Contract Information

Anticipated Contract Strategy:

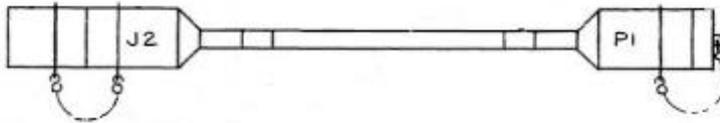
- ~ \$30k-\$40k
- Full and Open Competition

Anticipated Contract Type:

- FFP
- POC: Mr. Scott Chadwick



# ICBM Cable Assembly



## Opportunity

- Provide continued sustainment of ICBM fleet
- Conduct First Article testing
- NSN : 6150 01 229 5639 / P/N: 25-90379-9

## Schedule

- RFP Release: May 20
- Contract Award: Aug 20
- Period of Performance: ~6mo-12mo after contract award

## Contract Information

Anticipated Contract Strategy:

- ~ \$35k-\$45k
- Full and Open Competition

Anticipated Contract Type:

- FFP
- POC: Mr. Scott Chadwick



# 415 SCMS – Space & C3I

## Briefer: Mr. Bryson Kent

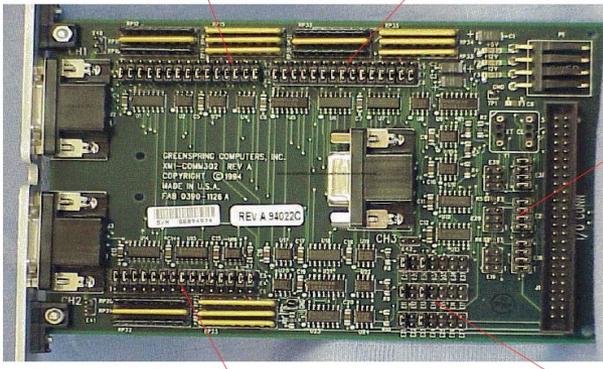
[bryson.kent@us.af.mil](mailto:bryson.kent@us.af.mil)



- **Management of components in support of:**
  - 26 Space and Command, Control, Communications, and Intelligence (C<sup>3</sup>I) Systems
    - Space -- fixed and mobile terminals for satellite C<sup>2</sup>, Launch and Test Range Systems
    - C<sup>3</sup>I -- long range radar surveillance, battlefield management, and aircrew training
- **Global impact for National Security Council and Unified Combatant CCs**
- **Buy/Repair Execution approximately \$45M/year**
- **NSNs managed:**
  - ≈ 9,700 active (of ≈ 12,700 managed) within 174 Federal Stock classes
  - Engineering Authority for ≈ 200K DLA managed items
- **'60/'70s Technology + Low Density/Low Demand = Diminishing Manufacturing Sources and Material Shortages & Obsolescence Issues**



## Mini-MUTES XM302 Transition Module (A3 Card)



### Opportunity

- NSN 5998-01-498-8206 (MFG PN 3050945-120) is a Circuit Card used on the Mini-MUTES.
- The Manufacturer (Harris (CAGE 66948)) is out of business.
- Currently seeking a supply/repair source for this Circuit Card due to all sources no longer having capabilities to repair/supply this asset.

### Schedule

- Anticipated RFP Release: June 2021
- Contract Award: TBD
- Period of Performance: TBD

### Contract Information

- Anticipated Contract Value: \$1,000,000
- Type of Contract: Full and Open Competition
- POC for the Effort: Rick Beery



## Mini-MUTES XM302 Transition Module (A3 Card)



### Opportunity

- NSN: 5996-01-598-5465 (MFG PN B60A40AC) Analog Servo Amp subassembly that supports the Joint Threat Emitter.
- Manufacturer (Advanced Motion Controls no longer supports)
- Currently seeking a supply/repair source for these Servo Amplifiers due to all sources no longer having capabilities to repair/supply this asset

### Schedule

- Anticipated RFP Release: June 2021
- Contract Award: TBD
- Period of Performance: TBD

### Contract Information

- Anticipated Contract Strategy:
  - Full & Open Competition
  - \$5,000 ea.
- Anticipated Contract Type: FFP
- POC: Dustin Troyer 801-777-2996



# 416 SCMS – Aircraft

**Briefer: Lt Col. Jonathan Whittaker**  
[jonathan.whittaker@us.af.mil](mailto:jonathan.whittaker@us.af.mil)



## ■ Management of items to include:

- Aircraft Structures, Avionics, and Electronics
  - A-10, F-16, T-38, T-7A, F-4
  - Supporting F-35 SCM Assessments
  - Trainers (Simulators)
  - Support Equipment (Weapon Systems Unique)
  - Munitions (Support Equipment)



## ■ Buy/Repair Execution Approx \$674M+

## ■ NSNs Managed - ~7,500 Items/\$6.2B

- Buy, Repair, Distribution, Disposal
- Engineering Authority
- Technical Support
- Modifications





# A/OA-10C Video Camera

A/OA-10C Video Camera



## Opportunity

- Become qualified vendor/source
  - Provide full repair of A10C Video Camera (P/N 93-2010)
- Requires reverse engineering capabilities

## Schedule

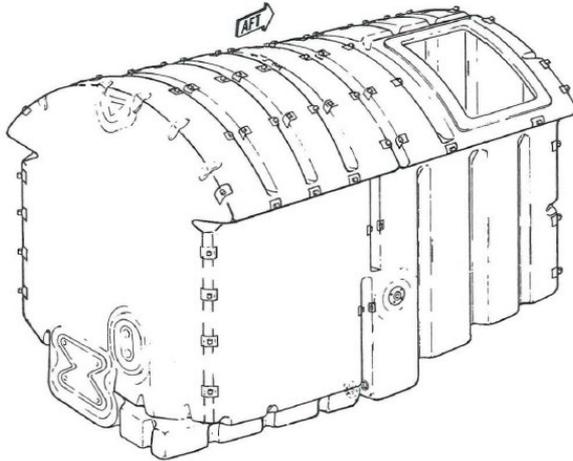
- RFP Release: March 2020
- Contract Award: July 2020
- Period of Performance: 5 years

## Contract Information

- Anticipated Contract Strategy:
  - ~\$1.5M
  - Full and Open Competition
- Anticipated Contract Type:
  - Firm Fixed Price
- POC: Charles Reveal, 801-777-7406



# 416 SCMS – GUMAE F-16 Fuel Cell



## Opportunity

Qualify to Manufacture F-16 Fuel Cell

- Difficult to Manufacture
- High Condemnation Rates
- Higher Procurement Rates to Meet Current and Future Demand
- Deliver New Technical Data Package
- Lockheed Martin Specification Drawing
  - 16VB004001-3, 16VB004002-7

## Schedule

- Sources Sought
  - 1560-01-322-9987 Aug 2019 Open
- Contractor Response Suspense: 15 Sept. 2020
- Contract Award: Q1, FY2021
- Period of Performance:  
Sept 2021 – June 2026

## Contract Information

Current Contract Strategy

- Minimum QTY 1, Max QTY TBD
- Indefinite Delivery/Indefinite Quantity

Anticipated Contract Length:

- 5 year

POC: Don Willmoth, 801-777-8692

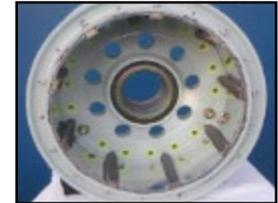


# 417 SCMS – Landing Gear

Briefer: Mr. Brad Martin  
[brad.martin@us.af.mil](mailto:brad.martin@us.af.mil)



- Management of items to include:
  - Struts, Wheels, Brakes, and Related Items
    - Heavy Weight
      - Cargo/Tanker: C-5, C-130, and KC-135
      - Bomber/AWACS: B-1B, B-52, B-2, and E-3
    - Light Weight
      - Fighter: F-16 and F-15
      - Attack/Trainer: A-10, T-38, F-4, F-5, Helos and Anti-skid
- Buy/Repair Execution approximately \$355M
- NSNs managed ~2700





# LHE Zn-Ni Plating



## Opportunity

- New manufacture
  - All Cad plated components
- No qualification required
- Air Force drawings (Distro A):
  - 201027456 (plating)
  - 201027457 (solutions)

## Schedule

- TDP updates initiated in 2014 for LHE Zn-Ni
- Allows use of Cad-plate until more vendors are capable
- Currently preferred on almost all landing gear component procurements

## Contract Information

- Sub-contract work with landing gear manufacturers



# 419 SCMS – Secondary Power

**Briefer: Mr. Spencer Terry**  
**Email: [Spencer.Terry@us.af.mil](mailto:Spencer.Terry@us.af.mil)**



## ■ Management of items to include:

- Secondary Power System Management
  - APUs, GTEs, ADGs, AMADs, etc.
  - Supporting 12 Aircraft Weapon Systems
  - World-wide distribution
  - Engineering authority
  - Technical order management



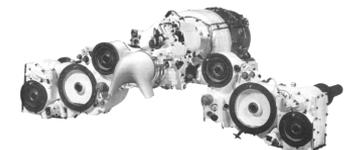
**Accessory Drive  
Gear Box (ADG)**

## ■ Buy/Repair Execution Approximately \$180M

## ■ NSNs managed ~430



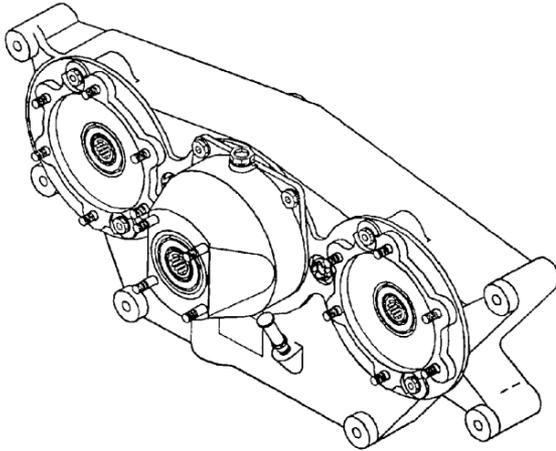
**Auxiliary Power Unit (APU) &  
Gas Turbine Engine (GTE) Systems**



**Airframe Mounted  
Auxiliary Drive (AMAD)**



# T-38 Gearbox Repair & Overhaul



## Opportunity

- Repair & Overhaul of T-38 Gearbox
- Seeking 2<sup>nd</sup> source to supplement organic Depot to meet field demands
- Complete R&O IAW Air Force Technical Orders
  - Shipping/receiving, disassemble, clean, inspect, repair/replace parts, assemble, and test of T-38 Gearboxes

## Schedule

- Contract Award: Estimated June 2021
- Period of Performance: 5 years
- Potential sources must demonstrate capability and be fully qualified/approved by AF prior to being allowed to bid

## Contract Information

- Anticipated contract strategy
    - \$2.4M per year
    - Overhaul ~104 gearboxes per year
    - Open Competition to approved vendors
- POC: Timothy Broussard, PM, 801-775-3292



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*...Thank you for what you do, and for what you're going to do, to keep Aircraft flying, missiles in silos ready to go, and Space and Command, Control, and Communications systems operating in support of this mission!*

# *Questions / Discussion*

# ***748th Supply Chain Management Group***

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*The Supply Chain Delivers ...  
Warfighter Dominance*

# Air Force Sustainment Center

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## Small Business Program



**Mr. James Dean**  
**AFSC/SB-Hill**



# ***Role of the SB Office***

*(Performs these services for AFSC, AFLCMC, and AFNWC)*

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- **Maximize SB Participation**
  - Engage early with our acquisition teams
  - Provide Input on RFIs/Sources Sought Synopsis, if requested
  - Make Set-Aside Recommendations
  - Acquisition Strategy Panels
  - Publicize SB Programs
- **Counsel Contractors – Small Business Advocate**
  - Advise what the Base/Complex/Supply Chain procures
  - Coordinate Inquiries/Guidance Requests
- **Small Business Administration (SBA) Liaison**
  - Acquisition Strategy (NAICS; SB Set-Aside; Subcontracting Plans)
  - Size Challenges

Ref: DOD Directive 4205.01; AFI 90-1801; DFARS 219.201 & PGI 219.201; and AFFARS 5319.201

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# AFSC/SB

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## Questions?

[www.afsc.af.mil/units/sbo/index.asp](http://www.afsc.af.mil/units/sbo/index.asp)