

# ***Air Force Sustainment Center***

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**Strategic Alternate Sourcing  
Program Office (SASPO)  
Hill AFB Industry Day  
20 June 2017**

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# ***Air Force Sustainment Center***

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## **SASPO Industry Day**



## **WELCOME REMARKS**

**Mr. Jerry Zamora**

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# *Air Force Sustainment Center*

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**U.S. AIR FORCE**  
**SMALL BUSINESS**

Small Source, Right Value, Big Performance

**Mr. James Dean (JD)**

**AFSC OL:H/SB**

**DSN 777-4143**

**Email: [james.dean.23@us.af.mil](mailto:james.dean.23@us.af.mil)**

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# Agenda



- **Small Business Office Role**
- **Procurement Offices Supported**
- **Source Approval Guidance**
- **A lot of Definitions**
- **SDS Responsibilities**
- **Resources**



# SBO Role



- **Our Role**

- **Ensure SB maximum practicable opportunity to participate in Hill AFB acquisitions**
  - **Carry Out Policy & Directives**
  - **Set/Achieve Program Goals**
  - **Knowledge of SB Program Requirements**
- **Participate in acquisition activities**
  - **Review subcontracting plans/acquisition documentation**
  - **Make Set-Aside Recommendations/SBA Coordination**
  - **Market research**
  - **Acquisition strategy meetings**
  - **Industry days**
  - **Provide training (internal and external)**
- **Outreach events---Meet with small business**
- **Source Development**



# Procurement Activities Supported (\$11.7B)



## Tinker

OC-ALC  
72<sup>nd</sup> ABW  
848<sup>th</sup> SCMG

## Robins

WR-ALC  
78<sup>nd</sup> ABW  
638<sup>th</sup> SCMG

## Hill

OO-ALC  
75<sup>nd</sup> ABW  
748<sup>th</sup> SCMG



E-3  
Propulsion  
B-1 B-2 B-52  
C/KC-135 KC-46  
CLS  
HF Global  
ATCALs

F-15      E-8  
C-17      U-2  
C-5      C-130  
C2ISR      SOF/PR  
Support Equipment  
Vehicles  
Automatic Test Sets  
Electronic Warfare

F-16  
A-10  
F-22  
MAPA  
Space & C3I  
Munitions



AFNWC  
  
FY16 Results: \$3.4B  
(AFSC \$1.2B; LCMC  
\$2.2B) AFNWC \$22M)

FY16 Results: \$5.4B  
(AFSC \$696M; LCMC  
\$4.7B)

AFNWC  
  
FY16 Results: \$2.9B  
(AFSC \$600M; LCMC  
\$1.7B; AFNWC \$564M)

## \$1.5B to Small Business



# *Regulatory Guidance-SAR*



- **FAR 9.2 Implements**
  - 10 U.S.C. 2319
  - 41 U.S.C. 253c
  - Prescribes Policies/Procedures
  - FAR Clause 52.209-1 Qualification Requirements
- **DFARS PGI 217.7506**
  - Establishes DOD Spare Parts Breakout Program
  - Provides Policies/Procedures
- **AFMCI 23-113**
  - Implements SAR process throughout AFMC
  - Consistent application/consistent documentation for qualification



# *DOD Spare Parts Breakout Program*

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- **Applicable To:**
  - Centrally Managed Replenishment and Provisioned Parts
  - All DOD Personnel Involved With Design Control, Acquisition, and Management of Such Parts
- **Objective: Obtain Best Value Through Competitive Procurement Methods**





# *DOD Spare Parts Breakout Program (continued)*

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- **Acquisition Method Code (AMC)**: Single digit **numeric** code to describe to the contracting officer/other government personnel the results of a technical review of a part and its suitability for breakout
- **Acquisition Method Suffix Code (AMSC)**: Single digit **alpha** code assigned by a DOD activity which provides the contracting officer/other government personnel with engineering, manufacturing, and technical information



# Breakout Codes



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<u>AMC</u>	<u>Description</u>
1	Suitable for competitive acquisition for the second or subsequent time
2	Suitable for competitive acquisition for the first time
3	Acquire for the second or subsequent time from the actual manufacturer
4	Acquire for the first time from the actual manufacturer
5	Acquire from the sole source contractor which is not the actual manufacturer



# ***Breakout Codes (continued)***



## **AMSC**

## **Description**

- A** The Government's right to use the data is questionable
- B** Must be bought from source(s) specified on a source control drawing
- C** Part requires engineering source approval by the design control activity in order to maintain the quality of the part
- D** Data is not physically available
- G** The Government has the rights to the data package and it is complete
- H** The Government does not have sufficient, accurate, or legible data
- K** Part must be produced from class 1 castings
- L** Annual buy value falls below the screening threshold for competitive buys



# ***Breakout Codes (continued)***



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<b><u>AMSC</u></b>	<b><u>Description</u></b>
<b>M</b>	<b>Master tooling is required to manufacture</b>
<b>N O P</b>	<b>Special test/inspection equipment/facilities are required</b>
<b>Q</b>	<b>Code not assigned, screening incomplete</b>
	<b>Right to use the data is not owned by the Government</b>
	<b>Government does not have rights to data - data availability is expected to be achieved</b>
<b>R</b>	<b>Government does not have data - uneconomical to purchase data</b>
<b>S</b>	<b>Restricted to Gov't approved source(s)/mil sensitive technology</b>
<b>T</b>	<b>Part controlled by Qualified Products List (QPL)</b>
<b>U</b>	<b>Cost to compete the item has been determined to exceed savings</b>
<b>V</b>	<b>High reliability part</b>
<b>Y</b>	<b>The design of the item has been determined unstable</b>
<b>Z</b>	<b>Commercial, non-developmental, off-the-shelf type item</b>

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# *AMC/AMSC Targets*



- **Restricted**
  - “C” Codes Best Candidates for SARs
  - » Require Engineering Approval
  - » Data Usually Available
  - » Specific Qualification Requirement Criteria applies



# Definitions



- **Critical Application Item (CAI):** An item essential to weapon system performance or operation, or the preservation of life or safety of operating personnel, as determined by the military services.
- **Critical Safety Item (CSI):** A part, assembly, installation equipment, launch equipment, recovery equipment, or support equipment for an aircraft or aviation weapon system if the part, assembly, or equipment contains a characteristic any failure, malfunction, or absence of which could cause:
  - a catastrophic or critical failure resulting in the loss of or serious damage to the aircraft or weapon system;
  - an unacceptable risk of personal injury or loss of life; or
  - an uncommanded engine shutdown that jeopardizes safety.



# Definitions (Continued)



- **Engineering Support Activity (ESA):** The Chief Engineer for the item/system and his/her lead engineers who have Operational Safety Suitability & Effectiveness (OSS&E) authority/responsibility.
- **Qualification Requirement (QR):** The minimum criteria set forth by the ESA to become an approved (qualified) source to either manufacture or repair/overhaul an item.
- **Source Approval Request (SAR):** A technical data package submitted by a contractor which includes all data /documentation/information required for a competent manufacturer/repair source to manufacture or repair an item, including a Critical Safety Item, to a level of quality that is equal or better than an OEM part.
- **Source Development (SD):** Function assigned within the Small Business Office at Air Logistics Centers to increase competition. The Source Development Specialist manages the SD function of the SB program.



# ***Engineering Support Activity (ESA)***

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- **Assign/Document Item-Criticality**
  - **Critical Safety Item**
  - **Critical Application**
  - **Non-Critical**
- **Determine Need/Establish/Maintain Record of Qualification Requirements**
- **ESA Responsible for the Fed Biz Opps Announcement of QRs**
- **Review/Evaluate SARs**





# *Source Development Specialist*



- **Manages the Qualification/Source Development Function of the SB program**
- **Acts as the Primary Liaison with Industry on all SARs not on solicitation**
- **Review Non-Technical Aspects of SARs**
- **Notifies Source when approved/disapproved**
- **Notifies Contractor when removed pursuant to FAR 9-207 (a)**



# AFSC/SB Web Site

<http://www.afsc.af.mil/units/sbo/>

## U.S. Air Force Sustainment Center



www.af.mil  
U.S. AIR FORCE



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Units > SBO

### AFSC & Tinker AFB Small Business Office



## Air Force Sustainment Center SMALL BUSINESS OFFICE

**Small Source, Right Value, Big Performance**

Our mission is to maximize small business participation in AFMC Acquisitions and aide in making the small business the solution of choice to meet the warfighter's mission.

#### Doing Business with the AFSC

A Step-by-Step Approach to the Marketplace

Government Contracting Programs

Small Business Programs

Training

Let us know about Small Business events. Email us at any of the contacts to the right of the page.

#### About SBO

##### Director: Ms. Tracy Nicholson

The Director is responsible for establishing policy for AFSC's small business and source development programs and managing and overseeing daily program operations.

##### Source Development Specialists

The Source Development Specialists are the source development (SD) technical assistants to the director and manager of the SD program for AFSC. They are the points of contact for contractors seeking source approval for new manufacture and/or overhaul/repair of aircraft, jet engine, and instrument spare parts for AFSC.

##### Small Business Specialists

The Small Business Specialists are the Small Business (SB) Technical Assistants to the Director and point of

#### Plans & Performance

DoD Plans & Performance

AFSC Plans & Performance

#### Legislations, Regulations, Policy

SBA Policy and Regulations

Business USA

Small Business Committee Legislation

#### Resources

Source Approval Request (SAR) Training

Source Approval Request (SAR) Process  
AFMCI 23-113 14 DECEMBER 2010

OC-ALC Source Approval Information Booklet

429th Supply Chain Management Squadron/Strategic  
Alternate Sourcing Program Office

Dynamic Small Business Search (DSBS)

Defense Logistics Agency (DLA)

General Services Administration (GSA)

Federal Acquisition Regulation (FAR)

### Inside AFSC

#### Search

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#### Locations and Contact Info

##### AFSC HQ and Tinker AFB

email: [afsc.sb.workflow@tinker.af.mil](mailto:afsc.sb.workflow@tinker.af.mil)

##### AFSC/SB

3001 Staff Drive  
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DSN: 339-2601

FAX:  
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DSN: 339-7085

##### Hill AFB

E-mail: [afsc.ol.sb@hill.af.mil](mailto:afsc.ol.sb@hill.af.mil)

Small Business Office  
Bldg. 1289  
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DSN 777-4143

Fax:  
(801) 777-5366  
DSN 777-5366


##### Website

*DEVELOPING BUSINESS ... SINCE 1941*



# AFSC/SB-Hill Web Site

<http://www.hill.af.mil/Home/Small-Business-Office/>




## HILL AIR FORCE BASE

JOIN THE AIR FORCE

[HOME](#) | [NEWS](#) | [ABOUT US](#) |

[Home](#) > [Home](#) > [Small Business Office](#)

### HILL AIR FORCE BASE SMALL BUSINESS OFFICE



Maximize small business participation in Hill AFB procurements. In order to achieve this, the Small Business Office counsels contractors, manages an effective outreach program, tracks progress in meeting SB performance expectations, provides education to internal and external customers, advises and assists contracting and program personnel on SB matters and manages the Source Approval/Development program. Small business specialists strive to make using small business the smart solution, rather than a required program.

Hill Air Force Base Small Business Office

#### CONTACT INFO

**Contact Information:**

E-mail: [AFSC/SB](#)

**Office:**  
Small Business Office  
Bldg. 1289  
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Hill AFB, Utah 84056

**Phone:**  
(801) 777-4143  
DSN 777-4143

**Fax:**  
(801) 777-5366  
DSN 777-5366

#### SMALL BUSINESS OFFICE

The Director is responsible for establishing policy for the installation's small business and source development programs and overseeing daily program operations.

E-mail: [The Director](#)

#### SMALL BUSINESS SPECIALISTS

The Small Business Specialists are the Small Business Technical Assistants to the Director and your point of contact for the Small Business Programs.

E-mail: [Small Business Specialist](#)

#### SOURCE DEVELOPMENT SPECIALIST

*Breaking Barriers .. Since 1947*



# *Hill AFB Small Business*



**James Dean (JD)**  
**Mike Cottam**  
**Mary Ann Flinders**  
**Kathy Butler**

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**SBA Procurement Center Representative (SBA/PCR)**  
**Brent Owens, 801-775-4141, [s.owens.1@us.af.mil](mailto:s.owens.1@us.af.mil)**



# AFSC/SB Organization Contact Information



## Air Force Sustainment Center (AFSC) Small Business Office (SBO)

**AFSC/SB Director**  
Ms. Tracy Nicholson  
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# QUESTIONS?



*Breaking Barriers ... Since 1947*

# ***Air Force Sustainment Center***

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## **Alternate Sourcing Overview**

**Mr. Jerry Zamora**  
**429 SCMS- SASPO**  
**Jerry.zamora@us.af.mil**

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# ***SASPO Mission Statement***

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- **Serves as the 448 SCMW focal point for alternate sourcing efforts and diminishing manufacturing sources and material shortages**
- **Responsible for providing a strategic focus on qualifying and developing alternate sources, developing and implementing strategies for increased supportability and parts availability, and leveraging opportunities for resolution of obsolescence issues across the enterprise**





# Alternate Sourcing



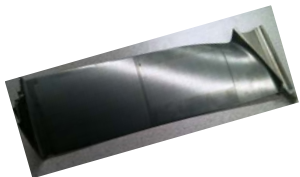
PLAN

SOURCE

MAKE/REPAIR

DELIVER/RETURN

ENABLE

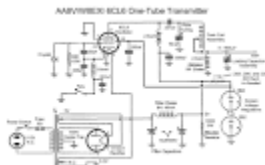


## Alternate Sourcing Strategies

F108 Alternate Sourcing strategy to procure engine components previously flown on commercial aircraft and repaired by an Air Force-approved source

### RESULTS:

- \$113M Saved
- 291 Days Reduced PLT

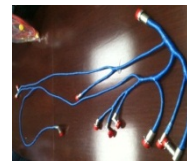


## Source Approval Requests

Increasing competition by facilitating the Source Approval Request process to qualify new sources of manufacture and repair to include; marketing through FBO, Industry Days, Conferences and SASPO Website

### RESULTS:

- \$46M Saved
- Reduced Process Time



## Repair Development/Reverse Engineering For Competition

Provide support to IPTs in the development of repairs and reverse engineering projects based on optimizing the supply chain

### RESULTS:

- Increased Supportability
- Increased Competition



## Alternate Sourcing Contract

Provide SAR evaluation recommendations, alternate sourcing and reverse engineering support

### RESULTS:

- Reduced Process Time
- Reduced Touch Time



# *Alternate Sourcing Industry Day*

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## **Benefits:**

- **Communicate 448 SCMW projected requirements**
- **To be effective and efficient in supply chain planning and execution**
- **Resource for private industry**
- **Government focal point**
- **SAR training**
- **Identification of possible Reverse Engineering, Repair Development, Additive Manufacturing candidates**
- **In depth SAR training provided – Free!**



# *Technical Order Requests*

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- **Complete DD Form 2345 (signed and certified)**
  
- **Request on Company Letterhead to include:**
  1. **Current date**
  2. **Phone number and fax number**
  3. **Point of contact and signature**
  4. **Detailed background information about your company/org**
  5. **Clear reason or justification for the request**
  6. **Clear description of the specific intended use of the data**
  7. **Tech Manual Number and Weapon System**
  8. **NSN, Part Number, and Nomenclature**
  
- **Please allow 30 calendar days before requesting status of request**

Robins: [robinspublicsales@us.af.mil](mailto:robinspublicsales@us.af.mil)

Hill and Tinker: [aflcmc.ezgtp.PubSale@us.af.mil](mailto:aflcmc.ezgtp.PubSale@us.af.mil)



# *Drawing Requests*

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- **Complete DD Form 2345 (signed and certified)**
  
- **Complete a Request For Engineering Data Form and ensure following information is provided:**
  1. **Drawing number**
  2. **Cage Code/Nomenclature**
  3. **National Stock Number and/or Part Number**
  4. **Specific business purpose for which data would be used**
  
- **Send request to the following Public Sales office:**
  - Hill: [aflcmc.ezgtp.PubSale@us.af.mil](mailto:aflcmc.ezgtp.PubSale@us.af.mil)
  - Robins: [robinspublicsales@us.af.mil](mailto:robinspublicsales@us.af.mil)
  - Tinker: [ocalc.lgldo.public@us.af.mil](mailto:ocalc.lgldo.public@us.af.mil)



# SASPO Products



- **Target List**
  - **A list intended to help companies get into the ballpark in determining which items to target for Source Approval Requests (SARs)**
    - **Only one or two sources of supply**
    - **A projected buy within the next three fiscal years**
    - **Acquisition Method Suffix Code (AMSC) “C”**
      - **The AF SHOULD own the data**
    - **Covers all three locations (OC, OO and WR)**
    - **Consists of 81 items (Spring 2017)**
    - **March and September Comp Cycle data**
      - **Six month lag to produce**



# SASPO Target List



ALC	FSC	NIIN	MMAC	ERRC	Noun	FUP	FY17 QTY	FY18 QTY	FY19 QTY	SMC	CAGE	Part #	Source Count	AMSC
OC	2840	015909067	JF	N	DAMPER,TUR	\$ 288	1232	0	0	B01E	7482	1993M68G01	2	C
OC	2840	016032118	NZ	N	SEAL, AIR	\$ 1,248	424	0	425	380F	52661	4081983-01	1	C
OC	3040	012677734	NZ	P	REMOTE CON	\$ 1,070	179	57	103	380E		4067415	2	C
OC	2840	012221771	NZ	T	SEAL,AIR,A	\$ 2,246	176	0	151	380E	52661	4067727	1	C
OC	2840	003326768	NZ	P	#3 BEARING	\$ 655	171	80	127	380E	23837	4022669	1	C
OC	2840	012118933	NZ	T	SUPPORT,SE	\$ 31,216	129	117	104	380N	52661	4065651	1	C
OC	2840	003438336	NZ	P	#4 BRG SEA	\$ 681	126	114	120	380E	23837	4032669	2	C
OC	2840	003315573	NZ	P	SEAL,METAL	\$ 515	118	93	9	380E	23837	4001529	2	C
OC	1680	002499370	FL	T	RUDDEVATOR	\$ 24,639	114	51	67	119Y	81205	5-96332-26	2	C
OC	3040	012118934	NZ	P	BELL CRANK	\$ 1,325	111	54	279	380N	52661	4066656	1	C
OC	2840	011081279	OP	T	HOUSING, O	\$ 2,055	100	54	57	329F	99207	6047T24G02	1	C
OC	2840	015042791	NZ	P	SUP,TURB D	\$ 116	103	0	75	380N	52661	4086297	2	C
OC	2840	016195780	NZ	N	LOCK PIN	\$ 3,925	90	115	60	380F	52661	4088463	2	C
OC	2840	015124427	JF	T	PTO D PTE	\$ 8,788	88	0	0	B01E	51992	9733M94G11	2	C
OC	2840	015764663	PR	T	HOUSING,OI	\$ 2,566	75	55	47	E07C	7482	9502M29G08	1	C
OC	2840	002803976	NZ	T	HOUSING,AN	\$ 23,269	70	57	44	380E	52661	4038606	1	C
OC	2840	012050538	NZ	T	SEAL,AIR,A	\$ 4,164	68	0	76	380N	52661	4060230	1	C
OC	2840	015438576	RV	T	SEAL,AIR,A	\$ 2,946	66	75	61	411E	52661	822891-01	2	C
OO	5998	016295711	WF	N	CIRCUIT CA	\$ 1,930	65	67	67	F16Z		201126351-30	2	C
OC	2840	015126705	JF	T	FAN FRAME	\$ 1,755	65	0	2	B01E	7482	9733M96G05	1	C
OC	2840	003326767	NZ	P	SEAL,METAL	\$ 690	64	123	84	380E	52661	4022668	2	C
OC	2840	003374706	NZ	P	COUPLING A	\$ 4,273	63	0	23	380E	52661	4010242	1	C
OC	1680	012465675	JY	T	PANEL,CONT	\$ 7,596	60	4	15	F16Z	67291	16E1085-803	2	C
OO	1680	011428095	WF	T	ACTUATOR,E	\$ 42,452	58	69	45	F16Z	81755	16VK013002-4	2	C

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# SAR Process



- **Source Approval Request (SAR) Process Overview:**
  - Research Federal Business Opportunities (FEDBIZOPS)
  - Determine the Managing Organization
  - Request the Qualification Requirements (QR)
  - Procure Drawings/Manufacturing or Repair Data
  - Do your Market Research
  - Build and submit your SAR Package
  - For DLA Managed Items call 804.279.5114 or email at:  
[http://www.aviation.dla.mil/UserWeb/AviationEngineering/Engineering/valueengineering/RPPOB\\_SAR.asp](http://www.aviation.dla.mil/UserWeb/AviationEngineering/Engineering/valueengineering/RPPOB_SAR.asp)
  - This information is found on the SASPO Website and the Alternate Sourcing Brochure



# 429 SCMS SASPO Web Site



engineering for the C-17 Fire Extinguisher Bottle

### Commercially Used and Over Hauled

Match AF requirements to industry availability of commercially-used parts with a military application to create savings through careful implementation of a commercial practice.

### VENDOR RESOURCES

- [T.O. Fact Sheet](#)
- [Quick Overview of Qualification Process 2015](#)
- [White Paper Template](#)
- [Small Business Office \(SBO\) \(New Link\)](#)
- [Militarily Critical Technical Data Agreement \(New Link\)](#)
- [MMAC Code Identifier \(New Link\)](#)

More to come ...

### REFERENCE DOCS

- [SAR Propulsion Training 2017](#)
- [Manufacture Qualification Requirements \(MQR\) for Propulsion Critical Safety Items \(CSI\) & Critical Application Items \(CAI\)](#)
- [USAF Propulsion Manufacture Spare, MQR-PSD-1 Repair Qualification Requirements \(RQR\) for Propulsion Critical Safety \(CSI\) & Critical Application Items \(CAI\)](#)
- [USAF Propulsion Repair, RQR-PSD-1](#)

### SASPO ANNOUNCEMENTS

Tinker Air Force Base, Okla. --

- Industry Day Save the Date 24 Aug 17 **NEW**
- [Industry Day Feb 2017](#)
- [F108 Industry Day Jan 2017](#)
- [Tinker Industry Day Aug 2016](#)
- [Tinker Industry Day Mar 2016](#)

Hill Air Force Base, Utah --

Industry Day Save the Date 20 Jun 17 **NEW**

Robins Air Force Base, Ga. --

Industry Day Save the Date 28 Sep 17 **NEW**

### SASPO PRODUCTS

- [SASPO Commercially-Used Overhauled List from Spring 2017 Requirements](#)
- [Spring 2017 Target List](#)
- [Spring 2017 G Coded List](#)
- [Spring 2017 RPOW Repair](#)
- [Spring 2017 RPOW Spares](#)

### SOURCE DEVELOPMENT

- [AFMCI 23-113](#)
- [DLA WebFLIS \(New Link\)](#)
- [FedBizOpps](#)
- [Defense Logistics Agency Internet Bid Board System \(DIBBS\)](#)
- [Aviation Critical Safety Item Management Handbook \(CSI Handbook\)](#)
- [JACG Source-Approved and Management Handbook](#)

<http://www.tinker.af.mil/Home/429SCMSSASPO.aspx>





# *Alternate Sourcing POCs*

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- **Julia Séas, (405) 736-7373**
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- **Myron Knight, (405) 734-7809**
  - [myron.knight@us.af.mil](mailto:myron.knight@us.af.mil)
  
- **Randy Harris, (405) 734-8358**
  - [randolph.harris@us.af.mil](mailto:randolph.harris@us.af.mil)
  
- **Michael Deaton, (405) 582-9712**
  - [michael.deaton.1@us.af.mil](mailto:michael.deaton.1@us.af.mil)



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# Questions

*Breaking Barriers ... Since 1947*

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# ***Air Force Sustainment Center***

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***Commercially -  
Used Overhauled  
Industry Day  
20 June 2017***



***Mr. Randy Harris  
429 SCMS - SASPO  
randolph.harris@us.af.mil***

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# *Introductions*



- **Strategic Alternate Sourcing Program Office (SASPO)**
  - **Jerry Zamora – SASPO Chief**
  - **Julia Séas – SASPO Lead**
  - **Randolph (Randy) Harris – CU&OH Program Manager**
  - **Myron Knight – RE/RD Program Manager**
  - **Michael Deaton – Program Manager**



# ***Commercially-Used Overhauled Program***



- **Air Force (AF) requirements**
  - Items with AF approved source(s) of repair
  - Items with no AF approved source(s) of repair
  - Additional opportunities for commercially-used parts
- **Other SASPO Programs**
  - SASPO Target List
  - SASPO “G” Coded List
  - RPOW Spares and Repairs List
  - Reverse Engineer / Repair Development
- **Source Approval Request (SAR) training (available on our website)**

<http://www.tinker.af.mil/Home/429SCMSSASPO.aspx>



# Overview of Commercially-Used Parts

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- **Objective: Match AF requirements to industry availability of commercially-used parts with a military application**
- **Purpose: To create savings through careful implementation of a commercial practice**
- **Goal: Achieve \$140M in savings**
- **Savings to date: \$112.5M**



# F108

## Commercially-Used Overhauled Program



### Prototype

### Expand

### Standardize



**Pilot**  
2011-2012

- 1 approved item
- 1 contract awarded

**RESULTS:**

- \$36.7M saved
- 84 days reduced PLT



2012-2016

- 43 approved items
- 36 added through SAR process
- 21 contracts awarded

**RESULTS:**

- \$56.3M saved
- 287 days reduced PLT



2017 and Beyond

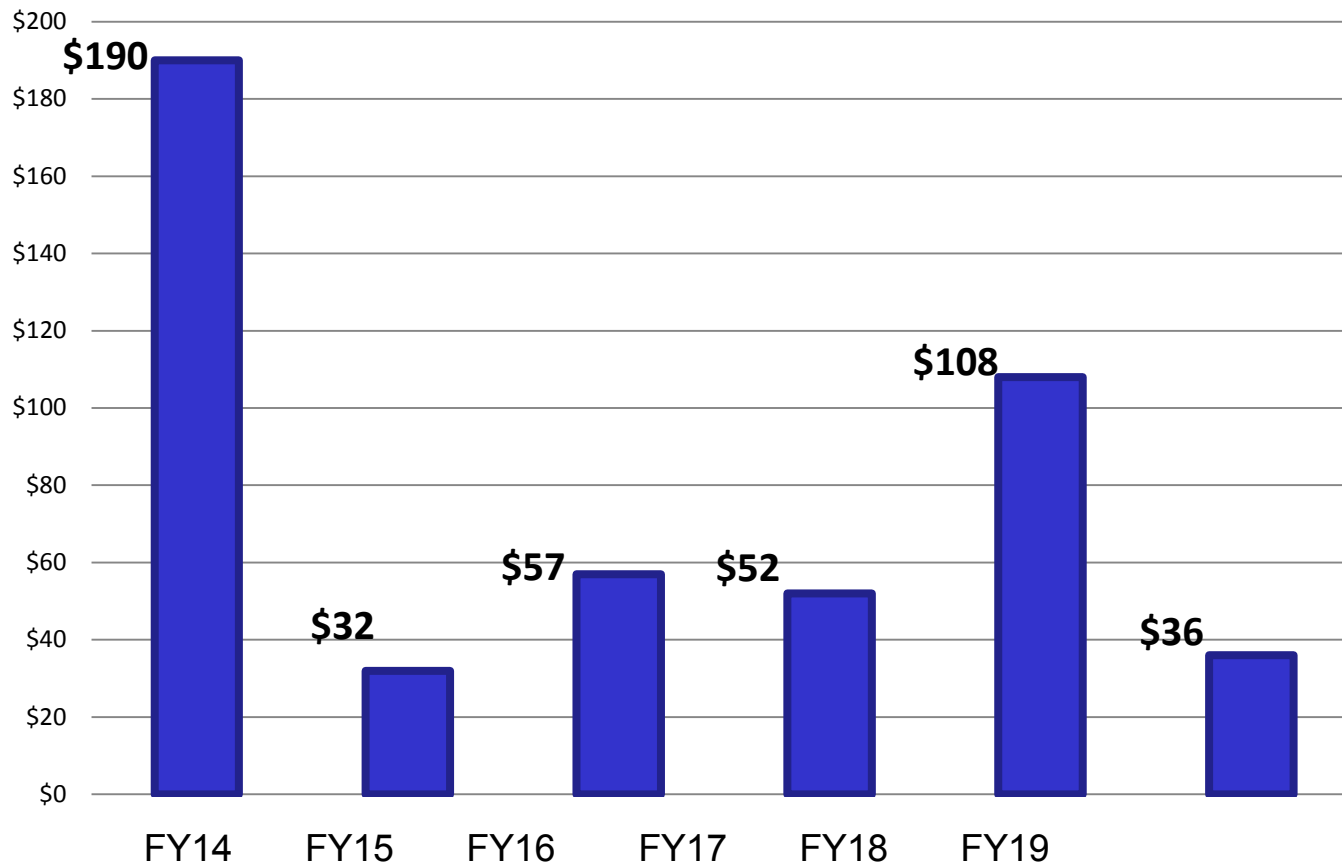
- Analyze F108 Life Limited Parts (LLPs)
- Analyze other commercial derivative engines
- Increase approved items through Source Approval process

Increase Supportability ★ Increase Availability ★ Increase Competition ★ Reduce Costs

*Breaking Barriers ... Since 1947*



# Forecasted F108 Spend Trend (in Millions)



Increase Supportability ★ Increase Availability ★ Increase Competition ★ Reduce Costs

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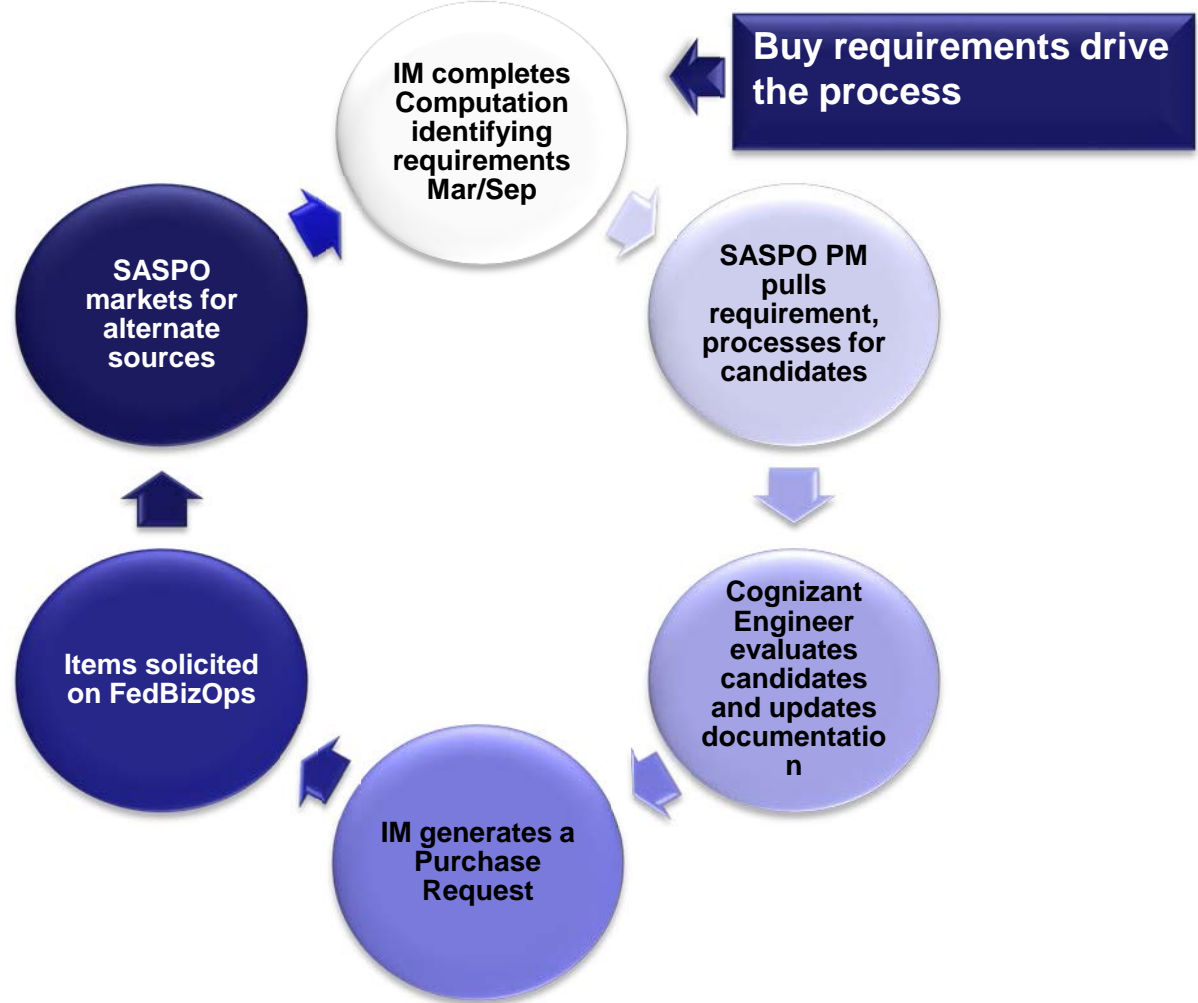




# Candidate Determination Process



Engineering Source Authority performed a risk assessment and collaborated with OEM as a part of the F108 Fan Blade pilot



Increase Supportability ★ Increase Availability ★ Increase Competition ★ Reduce Costs

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# ***Commercially-Used Parts with AF Approved Source(s) of Repair***



- **Parts with at least one AF approved source of repair**
  - **Advertised and procured through Federal Business Opportunities (FedBizOps) at [www.FBO.gov](http://www.FBO.gov)**
  - **Forecasts published twice per year from the Fall and Spring AF Requirements Computation Cycle on Federal Business Opportunities (FedBizOps) at [www.FBO.gov](http://www.FBO.gov)**
- **Solicitation identifies**
  - **AF Approved manufacturing (usually OEM) and repair sources**
  - **Parameters for disqualification of parts**
    - **Involved in an accident, submerged in water, exposed to volcanic ash, flown on Emery Air, etc.**



# ***Commercially-Used Parts with No AF Approved Source(s) of Repair***



- **Parts with NO AF approved source(s) of repair**
  - **Advertised through Requests For Information (RFI) or Sources Sought Synopsis on Federal Business Opportunities (FedBizOps) at [www.FBO.gov](http://www.FBO.gov)**
    - **Looking for companies to submit repair Source Approval Request (SAR) packages**
    - **Companies approved and qualified via the SAR process will be listed as an AF Approved Source of Repair**
      - **AF approved Source(s) of Repair will be included in the solicitations on FedBizOps for future commercially-used overhauled requirements**



# ***AF Commercially-Used Overhauled Program***



- **If you have the right repair capabilities the AF would like you to submit repair SARs**
  - **Request Qualification Requirements (QR) from the AFSC**  
**Small Business Office: <http://www.tinker.af.mil.sbo.asp>**
  - **Include the NSN in the Subject Line of the email**
  - **Determine if you have the ability to repair the item**
  - **Determine if the AF repair fits your business case**
  - **Build a SAR IAW the QR and AFMCI 23-113**



# Commercially Used Overhauled List - Example



J85									
With Air Force-Approved Source(s) of Repair									
	NSN	Noun	FY16 QTY	FY16 BUY Value	FY17 QTY	FY17 BUY Value	FY18 QTY	FY18 BUY Value	FY16-FY18 Buy Value
1	2840-01-516-9165	FWD, SPOOL	37	\$1,530,810	9	\$372,359	8	\$330,986	\$2,234,156
2	2840-00-795-1513	HOUSING, GE	46	\$ 726,648	24	\$ 379,121		\$ 157,967	\$ 1,263,735
3	2840-01-490-1337	CASE, A/B,	17	\$662,916	15	\$584,927	14	\$545,931	\$1,793,773
4	4820-01-341-2016	VALVE,GATE	26	\$135,200	0	\$0	0	\$0	\$135,200
5	2915-00-143-6107	VALVE,FUEL	11	\$32,843	3	\$8,913	2	\$5,971	\$47,771
6	2840-01-123-1000	SEAL,AIR,A	8	\$ 12,909	5	\$ 8,068	4	\$ 6,454	\$ 27,431
7	2840-01-542-7488	ROTOR,COMP	0	\$0	12	\$315,627	24	\$631,254	\$946,881
8	2840-01-558-5877	FRAME,FRON	0	\$0	0	\$0	1	\$24,377	\$24,377

J85									
No Air Force-Approved Source(s) of Repair									
	NSN	Noun	FY16 QTY	FY16 BUY Value	FY17 QTY	FY17 BUY Value	FY18 QTY	FY18 BUY Value	FY16-FY18 Buy Value
1	2840-01-600-0154	ROTOR,COMP	2	\$1,016,647	0	\$0	0	\$0	\$1,016,647
2	2840-01-480-1845	REAR SPOOL	3	\$217,620	3	\$217,620	3	\$217,620	\$652,861
3	2915-01-572-2557	PUMP,FUEL,	0	\$0	197	\$3,212,491	126	\$2,054,690	\$5,267,180
4	4320-01-042-3944	PUMP,ROTAR	0	\$0	2	\$24,746	0	\$0	\$24,746
5	4820-00-710-0978	BODY, VALV	0	\$0	0	\$0	0	\$0	\$0



# ***Specific Opportunities for Commercially-Used Parts***

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- **Looking for opportunities/assistance**
  - **F108 Lube unit housing**
    - **2995-01-443-6889**
    - **301-510-641-0**
  - **F108 Lube Unit (alternate)**
    - **2945-01-443-7993**
    - **301-572-033-0**



# ***Additional Opportunities for Commercially-Used Parts***

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- **What are other opportunities**
  - **Expanding to additional engines**
    - **Released RFI on 15 February through 15 March 2017 to assess available inventory for additional engines (FBO)**
    - **Closed but still seeking inventory availabilities**
  - **Consumables (Items Managed As)**
  - **Other, your input is valuable**



# Contact Information



- AFSC Small Business Office

- Website: <http://www.tinker.af.mil/sbo.asp>
- Email: [afsc.sb.workflow@tinker.af.mil](mailto:afsc.sb.workflow@tinker.af.mil)
- Address: 3001 Staff Drive Suite 1AG 85A  
Tinker AFB, Oklahoma  
73145-3009

- SASPO

- Website: <http://www.tinker.af.mil/Home/429SCMSSASPO.aspx>
- Email: [429scms.workflow.saspo@us.af.mil](mailto:429scms.workflow.saspo@us.af.mil)
- Address: 3001 Staff Drive Suite 2AC4 94B  
Tinker AFB, Oklahoma  
73145-3009





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# Questions

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# BREAK

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# ***Air Force Sustainment Center***

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***Reverse Engineering  
& Repair Development  
Industry Day  
20 June 17***



**Mr. Myron O. Knight  
429 SCMS- SASPO  
[myron.knight@us.af.mil](mailto:myron.knight@us.af.mil)**

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# Purpose

- **Objective:** Reduce Air Force supply chain costs/risks through increased competitive sourcing strategies
  - Focus on creating competition to improve affordability and supportability
- **Plan:** Implement Wing Approved approach to the identification and management processes of CER engineering projects
- **Projected results:** Strategic identification, prioritization and tracking of engineering project candidates and capability to report actual ROI results

50% of the 448 SCMW Spares Buys and  
60% of Repairs are Sole Source



# 448 SCMW RE / RD Plan



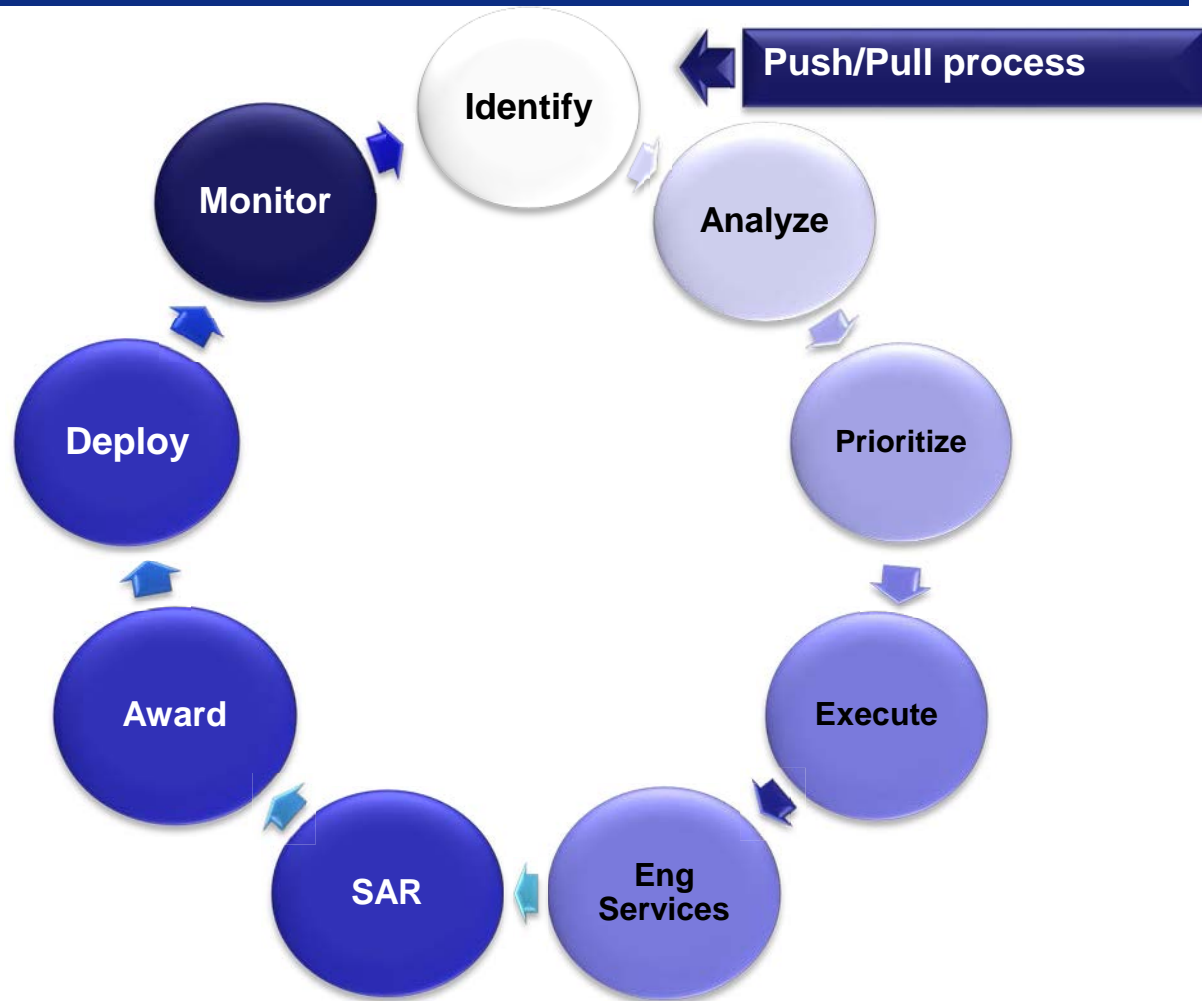
- 448 SCMW is investing in their supply chain
  - Acquire Data
- Able to use CSAG dollars to create competition
  - Working Capital Fund
- Enterprise Level (WR, OO, OC)
- Working to identify candidate item



# Competitive RE Process



Candidate items can be identified from any source; Engineer, Loggie, Item Manager, Contractor, Data Research, etc.



Increase Supportability ★ Increase Availability ★ Increase Competition ★ Reduce Costs

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# *What the Air Force is looking for?*



- Partner to produce a prototype
- Provide a full Tech Data Package (TDP)
- Maintaining the same Form/Fit/Function
- Reducing risk/cost/leadtime
- Application of sound scientific principles to resolve obsolescence
- Being a cooperative partner
- Open communications
- Fulfilling expectations
- Fairness



# Acquiring Data



- Contractors must be registered as a Federal Vendor in FedBizOpps:

[https://www.fbo.gov/index?s=main&mode=list&tab=register&subtab=step1&\\_lsys=vendor](https://www.fbo.gov/index?s=main&mode=list&tab=register&subtab=step1&_lsys=vendor)

- Contractors must have a valid DD Form 2345 on file
- Contractors must have a valid CAGE Code
- Contractors must have a valid DUNS number





# *Expectations*

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- Interested Companies:
  - Submit a no-cost white paper stating interest with estimated costs and schedule
  - Request the Engineering Data List (EDL)
  - Procure all available data from the Public Sales Office
  - Work with SASPO Program Manager and Engineer to identify the requirements
    - Test and Qualification
    - Tooling
    - Specifications



# *Future Opportunities*



- This program is in the infancy stage and will experience changes as it grows
- 448 SCMW will continue to identify opportunities
- Will post Sources Sought Synopses (SSS) and/or Requests For Information (RFIs) on Federal Business Opportunities (FBO)
- Additional Industry Days Advertised on FBO and SASPO Website
- Open for suggestions or white papers on candidate items or other items



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# Reverse Engineering Candidates

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# UDTU/RDTU Backplane



## Key Sustainment Issue

- The Upgrade Data Transfer Unit (UDTU) was reverse engineered due to DMS and reparability issues and renamed the Reengineered Data Transfer Unit.
- At the time the backplane wasn't identified as needing reverse engineering but that has changed.
- The Air Force requires a source for the backplane.

## Description

- RDTU NSN 7025-01-619-5776,
- Part Number B001012-10

## Status

UDTUs are being converted to RDTU, some are unrepairable due to lack of a good backplane.

## Requirements

- Reverse Engineer for Manufacturing.
- Exact requirements are not available but probably no more than 20 over two or three years.
- No data for the backplane is available, it is not currently stock listed



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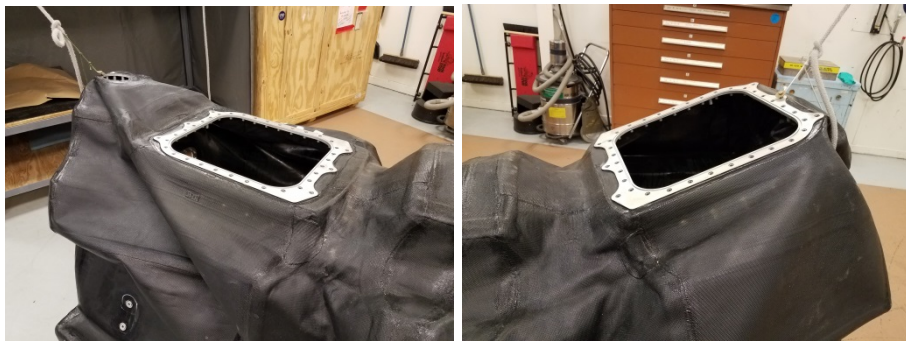
# Repair Development Candidates

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# Fuel Cell “Window” Fittings A-10 FWD & AFT Fuel Cells



## Key Sustainment Issues

- Organically repaired.
- Low production rate due to limited suppliers.
- High condemnation rate for cracking around the upper F-1 or “window” fittings.

## Description

- P/N: 160C950901-9 FWD Fuel Cell
- P/N: 160C950901-11 AFT Fuel Cell

## Requirements

- Develop and validate a repair process to repair and/or replace the F-1 “window” fittings on top of the FWD and AFT Fuel Cells.

## Status

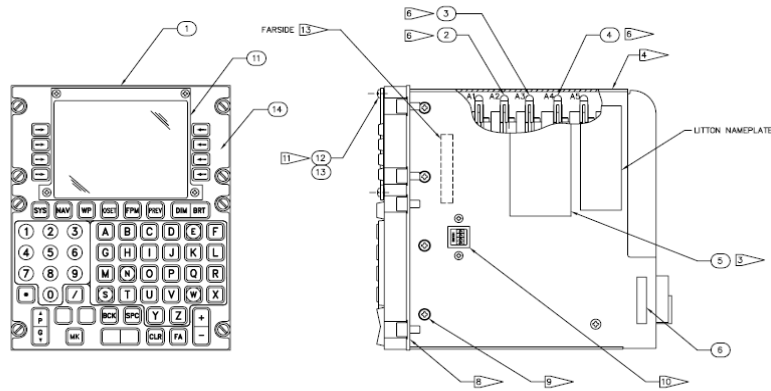
- Organic repair is currently condemning fuel cells at a rate which closely matches the new production rate. Stock on-hand is near zero.

- NSN: 1560-01-055-9909
- NSN: 1560-01-050-2290

TO: 1-1-3



# Digital Keyboard Interface Card in the A-10 Central Display Unit



## Key Sustainment Issues

OEM and sub have divested themselves of the CDU and its subcomponents.

Schematic and parts list is available in TO 5N29-36-3

## Description

- NSN 5998-21-914-0195 PN 10-46110-01

## Requirements

- Provide repair, would need to develop an ATP.

## Status

- Current requirement for repair of 7, demand is sporadic



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# Zero - One Candidates

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# *Zero – One Initiative*



- 
- 414<sup>th</sup> SCMS - Inter Continental Ballistic Missiles (ICBM)
  - Supportability Issues
    - Obsolescence
    - Over 900 Items
    - Low usage items
    - Little to no data (drawings/T.O.)
  - Reverse Engineering and Repair Development
  - List will be posted on SASPO website
  - Parts will be briefed at Tinker ID (Aug) and Robins ID (Sep)

# 448th Supply Chain Management Wing



*The Supply Chain Delivers ...*

*Parts on the Shelf and Contracts in Place*



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# FINAL COMMENTS

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# Source Approval Request (SAR) Training

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