

448th Supply Chain Management Wing

FSC 1560 (Structures) Reverse Engineering Industry Day 20 August 2015



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Agenda



- Opening remarks - 448 SCMW Director, Mr. Frank Washburn
- Introductions
- SASPO
- Purpose
- Candidate Items
 - Reverse Engineering
 - Additional Sources
- Acquiring Data
- Expectations
- Other SASPO Programs
 - SASPO Target List
 - Commercially-Used Overhauled Program
- Source Approval Request (SAR) training

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Disclosure Notice



This briefing is for Market Research Purposes Only

DISCLOSURE NOTICE – The persons presenting this briefing do not have the authority to obligate changes to, or grant, contracts on behalf of the Government. Any changes to the contract will come from the cognizant Contracting Officer, in writing.

There is currently no funding available for the execution of any effort being presented during this briefing. Only after funding becomes available will the cognizant Contracting Officer contemplate soliciting a formal request for proposal.

Nothing discussed in this meeting authorizes you to work, start work, or bill for work. Any understanding on your part to the contrary is a mistake.



Introductions



- AFSC Small Business Office
- 448 SCMW Engineering
- 448 SCMW Requirements Organization
- Strategic Alternate Sourcing Program Office (SASPO)



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 are Sole Source



448 SCMW RE / RD Plan

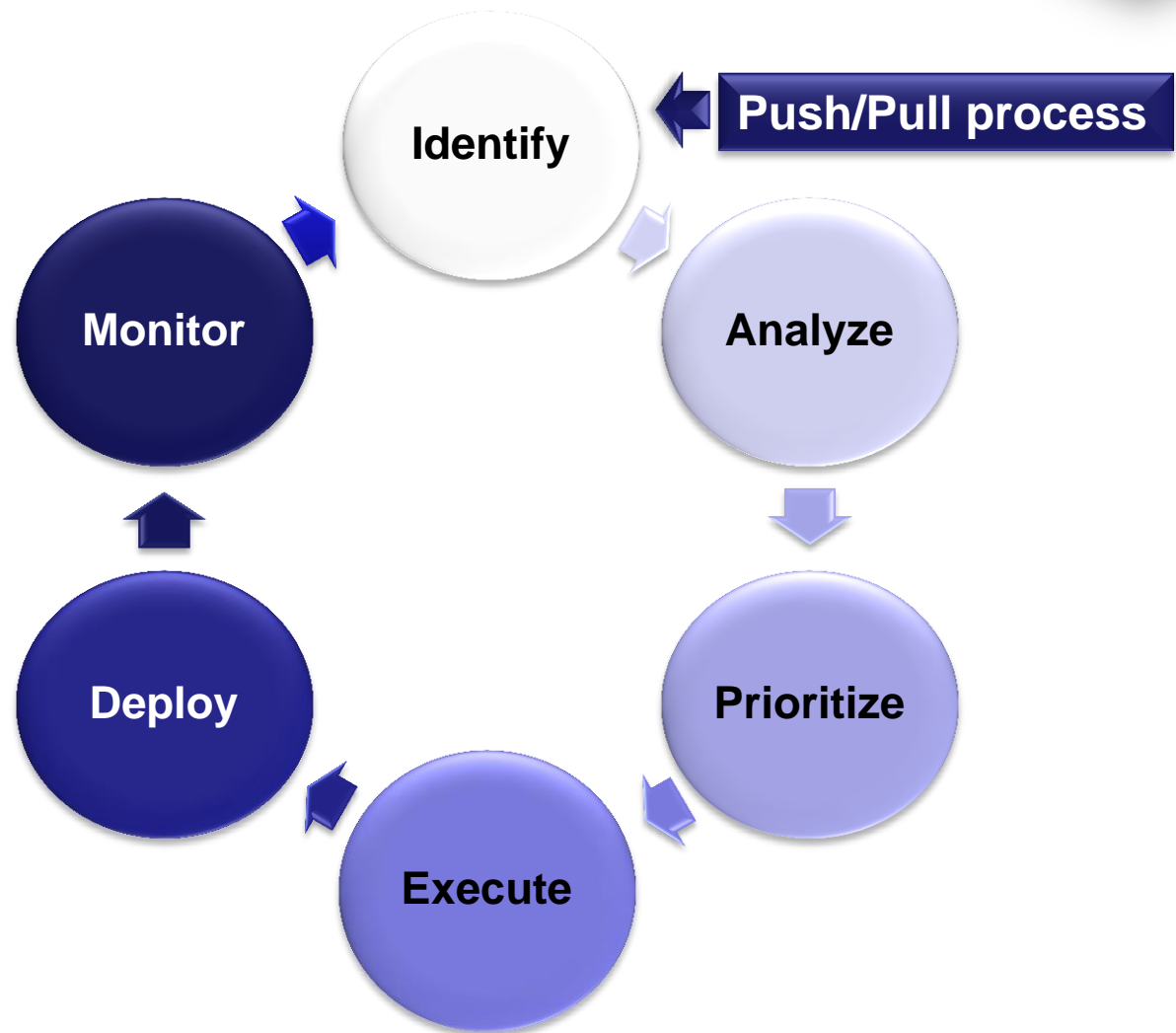


- 448 SCMW is investing in their supply chain
- Able to use CSAG dollars to create competition
- Enterprise Level (WR, OO, OC)
- Dedicated Program Manager – Mr. Myron Knight
- Working to identify candidate items



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



- 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
- An excuse to give good CPARs



Reverse Engineering Candidates



- B-2 Weapons Bay Door
 - NSN: 1560-01-444-9498
 - Part Number: DAB3116B301-129
 - Forecasted Requirement: FY16 - 1, FY17 - 0, FY18 - 0

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B-2 Weapons Bay Door

Jonathan Mach
Engineer
424 SCMS



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KC-135 Fuel Cells 424 SCMS

Ms. Becky Medina
Engineer
424 SCMS



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Alternate Sourcing Candidates



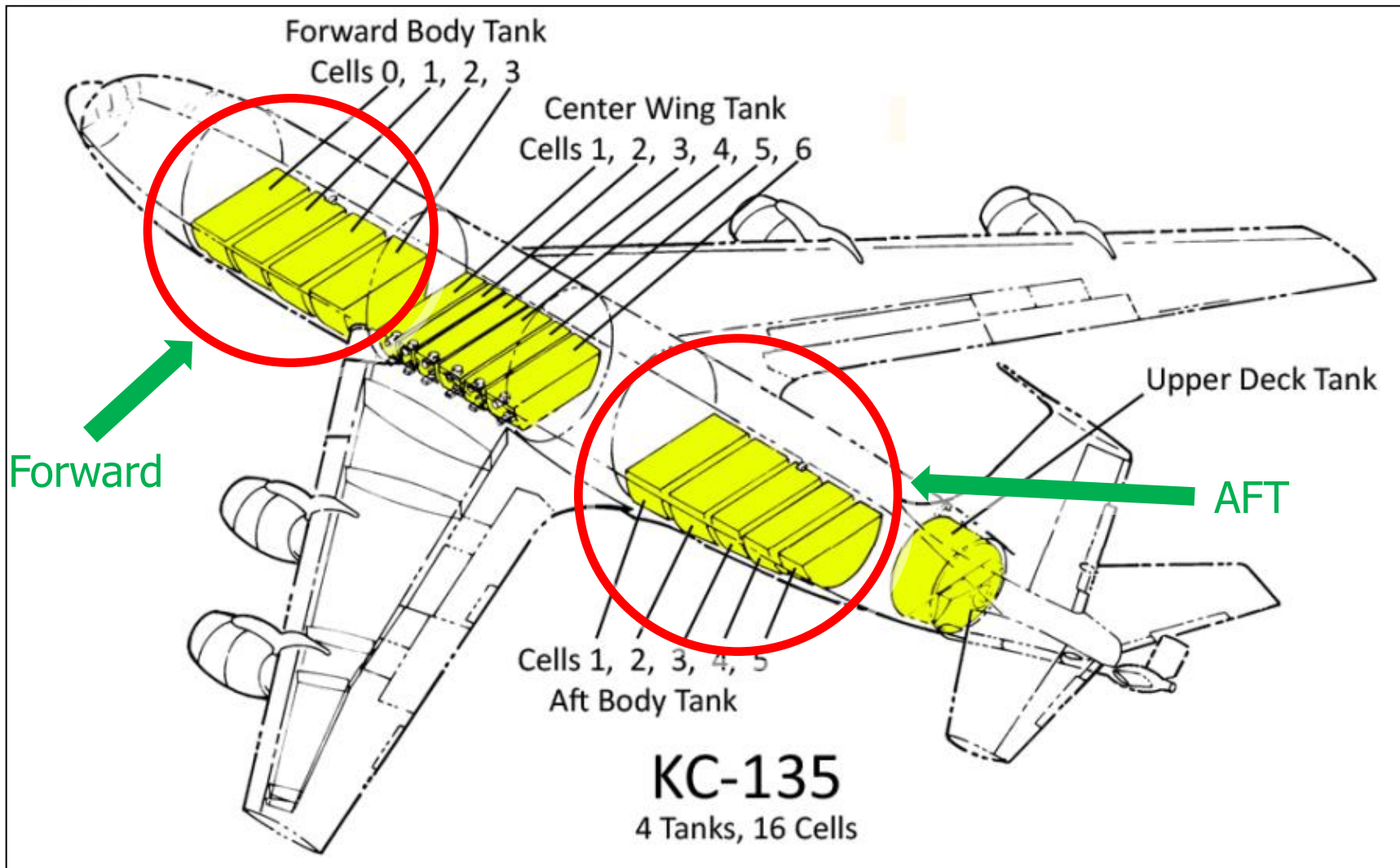
Alternate Sourcing Candidates

| Weapon System | Noun | NSN | Part Number | FY16 | FY17 | FY18 |
|---------------|-----------------------------|------------------|------------------|------|------|------|
| KC-135 | Zero Forward Body Fuel Tank | 1560-01-529-8392 | A02 4012S101-010 | 39 | 35 | 35 |
| KC-135 | #1 Forward Body Fuel Tank | 1560-01-530-2924 | A02 4012S102-010 | 27 | 24 | 23 |
| KC-135 | #2 Forward Body Fuel Tank | 1560-01-530-2926 | A02 4012S103-010 | 31 | 30 | 28 |
| KC-135 | #3 Forward Body Fuel Tank | 1560-01-529-7635 | A02 4012S104-010 | 25 | 23 | 21 |
| KC-135 | #1 Aft Body Fuel Tank | 1560-01-529-7625 | A02 4012S111-010 | 25 | 22 | 21 |
| KC-135 | #2 Aft Body Fuel Tank | 1560-01-529-8391 | A02 4012S112-010 | 7 | 5 | 8 |
| KC-135 | #3 Aft Body Fuel Tank | 1560-01-529-8393 | A02 4012S113-010 | 24 | 24 | 22 |
| KC-135 | #4 Aft Body Fuel Tank | 1560-01-529-7626 | A02 4012S114-010 | 33 | 31 | 31 |

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Fuel Cell Item Schematics





Fuel Cell Item Photo



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MPRS Shroud 424 SCMS

**Mr. James Hansen
Engineer
424 SCMS**



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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>

- Contractors must have a valid DD Form 2345 on file
- Contractors must have a valid CAGE Code
- Contractors must have a valid DUNS number
- Unclassified B-2 engineering data is considered Controlled Unclassified Information (CUI) ---
"Unclassified information that does not meet the standard for National Security Classification under Executive Order 12958, as amended, but is pertinent to the national interest of the United States or originated by entities outside the U.S. Federal government, and under law or policy requires protection from disclosure, special handling safeguards, and prescribed limits on exchange or dissemination." --
Presidential Memorandum, May 9, 2008, Designation and Sharing of Controlled Unclassified Information



Expectations



- Interested Companies:
 - 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
 - Submit a no-cost white paper stating interest with estimated costs and schedule



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
- Open for suggestions or white papers on candidate items or other items



Other SASPO Programs (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 231 items (Sep 14)
 - March and September Comp Cycle data
 - Six month lag to produce



SASPO Target List (Sep 2014 Comp)



SASPO Target List Spring 2015 -- Sorted by Air Logistics Complex (ALC) Based on September 2014 Comp Cycle Data from D075 Automated Budget Compilation System (ABCS)

| # | ALC | FSC | NIIN | MMAC | Noun | FUP | FY12 QTY | FY13 QTY | FY14 QTY | FY15 QTY | FY15 Spend \$ | FY16 QTY | FY16 Spend \$ | FY17 QTY | FY17 Spend \$ | FY15-FY17 Spend \$ |
|----|-----|------|-----------|------|------------|--------------|----------|----------|----------|----------|---------------|----------|---------------|----------|---------------|--------------------|
| 1 | OC | 2840 | 015943205 | NZ | FLAMEHOLDE | \$38,812.00 | | | | 465 | \$18,047,580 | 181 | \$7,024,972 | 179 | \$6,947,348 | \$32,019,900 |
| 2 | OC | 2840 | 013872657 | NZ | DUCT,FAN,- | \$109,329.22 | | 44 | 35 | 15 | \$1,639,938 | 65 | \$7,106,399 | 48 | \$5,247,803 | \$13,994,140 |
| 3 | OC | 2840 | 015412442 | JF | HOUSING,GE | \$46,929.63 | | 1 | 34 | 98 | \$4,599,104 | 44 | \$2,064,904 | 44 | \$2,064,904 | \$8,728,911 |
| 4 | OC | 2840 | 012075405 | JF | CASE,COMPR | \$115,297.04 | 10 | | | 44 | \$5,073,070 | 13 | \$1,498,862 | 4 | \$461,188 | \$7,033,119 |
| 5 | OC | 2840 | 014487511 | NZ | 97 TURBINE | \$41,040.61 | | | 10 | 48 | \$1,969,949 | 57 | \$2,339,315 | 57 | \$2,339,315 | \$6,648,579 |
| 6 | OC | 2840 | 012118933 | NZ | SUPPORT,SE | \$28,187.12 | 16 | | | 32 | \$901,988 | 84 | \$2,367,718 | 74 | \$2,085,847 | \$5,355,553 |
| 7 | OC | 2840 | 012783281 | NZ | SUPPORT,TU | \$18,605.82 | 13 | | | 30 | \$558,175 | 131 | \$2,437,362 | 116 | \$2,158,275 | \$5,153,812 |
| 8 | OC | 2840 | 016032118 | NZ | SEAL,AIR,A | \$1,231.88 | | 1476 | 434 | 1284 | \$1,581,734 | 840 | \$1,034,779 | 952 | \$1,172,750 | \$3,789,263 |
| 9 | OC | 2840 | 011067651 | OP | COMBUSTION | \$65,062.40 | | | | 54 | \$3,513,370 | 0 | \$0 | | \$0 | \$3,513,370 |
| 10 | OC | 1560 | 015297626 | FL | CELL,FUEL | \$17,765.97 | | 17 | 90 | | \$1,598,937 | 64 | \$2,371,172 | 3 | \$586,277 | \$3,322,236 |
| 11 | OC | 5895 | 015775557 | FW | PROCESSOR | \$355,357.35 | | | | 0 | \$0 | 0 | \$0 | 9 | \$3,198,216 | \$3,198,216 |
| 12 | OC | 1560 | 015298392 | FL | CELL,FUEL | \$18,222.59 | | | | 97 | \$1,767,391 | 34 | \$619,568 | 32 | \$583,123 | \$2,970,282 |
| 13 | OC | 1560 | 015297625 | FL | CELL,FUEL | \$22,050.59 | | | 39 | 71 | \$1,565,592 | 28 | \$1,177,417 | 24 | \$529,214 | \$2,712,223 |
| 14 | OC | 3040 | 015488226 | NZ | GEARSHAFT, | \$5,844.83 | 40 | 1 | 89 | 90 | \$522,900 | 80 | \$1,052,069 | 189 | \$1,104,673 | \$2,676,932 |
| 15 | OC | 1560 | 015302926 | FL | CELL,FUEL | \$20,795.62 | | | | 38 | \$1,414,102 | 29 | \$603,073 | 27 | \$561,482 | \$2,578,657 |
| 16 | OC | 2995 | 011467571 | JF | MANIFOLD,F | \$46,237.00 | 1 | 4 | 3 | 3 | \$1,387,008 | 12 | \$554,803 | 12 | \$554,803 | \$2,496,614 |
| 17 | OC | 2840 | 013084465 | NZ | DIVERGENT | \$3,116.68 | 24 | 60 | 27 | 340 | \$1,055,251 | 150 | \$465,552 | 265 | \$822,475 | \$2,343,278 |
| 18 | OC | 1680 | 006590122 | RK | GFAPROX | \$9,330.07 | 30 | | | 0 | \$0 | 39 | \$1,533,912 | 20 | \$786,621 | \$2,320,533 |
| 19 | OC | 6110 | 011414879 | HY | MOUNT,ASSE | \$1,002.00 | | | | 0 | \$0 | 63 | \$2,142,154 | 5 | \$170,012 | \$2,312,167 |
| 20 | OC | 2840 | 002803976 | NZ | HOUSING,AN | \$12,815.64 | | | | 70 | \$897,095 | 55 | \$704,860 | 51 | \$653,598 | \$2,255,553 |
| 21 | OC | 1560 | 015298391 | FL | CELL,FUEL | \$19,954.56 | | 66 | 51 | 31 | \$1,017,683 | 31 | \$618,591 | 29 | \$578,682 | \$2,214,956 |
| 22 | OC | 1560 | 015297635 | FL | CELL,FUEL | \$18,335.49 | | | 45 | 65 | \$1,191,807 | 27 | \$495,058 | 23 | \$421,716 | \$2,108,581 |
| 23 | OC | 2840 | 015807061 | NZ | SUPPORT,TU | \$25,146.29 | 135 | | 6 | 35 | \$880,120 | 17 | \$427,487 | 23 | \$578,365 | \$1,885,972 |
| 24 | OC | 1560 | 015495101 | FG | NOSE RADOM | \$462,168.00 | 26 | | | 0 | \$0 | 4 | \$1,848,672 | 0 | \$0 | \$1,848,672 |
| 25 | OC | 1680 | 002499370 | FL | RUDDEVATOR | \$24,336.66 | 93 | | | 0 | \$0 | 32 | \$778,773 | 43 | \$1,046,476 | \$1,825,250 |
| 26 | OC | 2840 | 013888300 | PR | SEAL AIR,S | \$32,965.49 | | | | 14 | \$461,517 | 13 | \$428,551 | 28 | \$923,034 | \$1,813,102 |
| 27 | OC | 1560 | 015298393 | FL | CELL,FUEL | \$22,643.51 | | | 85 | 31 | \$701,949 | 24 | \$543,444 | 24 | \$543,444 | \$1,788,837 |
| 28 | OC | 1680 | 014372864 | FW | MOUNT,ASSE | \$31,112.26 | | | | 35 | \$1,088,929 | 9 | \$280,010 | 6 | \$186,674 | \$1,555,613 |
| 29 | OC | 1560 | 015302924 | FL | CELL,FUEL | \$18,916.20 | | | 56 | 34 | \$643,151 | 25 | \$472,905 | 23 | \$435,073 | \$1,551,128 |
| 30 | OC | 2840 | 016195780 | NZ | LOCK RING, | \$4,611.81 | | | | 90 | \$415,063 | 120 | \$553,417 | 120 | \$553,417 | \$1,521,897 |
| 31 | OC | 1650 | 013761089 | FW | #3 LH SURF | \$663,258.14 | | | | 1 | \$663,258 | 0 | \$0 | 1 | \$663,258 | \$1,326,516 |
| 32 | OC | 2840 | 012149746 | NZ | FAIRING,TU | \$5,366.40 | | 52 | | 58 | \$311,251 | 93 | \$499,075 | 89 | \$477,610 | \$1,287,936 |
| 33 | OC | 2840 | 013644482 | NZ | SUPPORT,SE | \$29,232.81 | | | | 0 | \$0 | 19 | \$555,423 | 25 | \$730,820 | \$1,286,244 |
| 34 | OC | 2840 | 015909067 | JF | DAMPER,TUR | \$283.80 | | 15299 | | 835 | \$236,973 | 2000 | \$567,600 | 1467 | \$416,335 | \$1,220,908 |
| 35 | OC | 2840 | 012058485 | NZ | HOUSING,AN | \$26,116.36 | 21 | | 18 | 0 | \$0 | 18 | \$470,094 | 25 | \$652,909 | \$1,123,003 |
| 36 | OC | 2840 | 014266695 | NZ | 4TH OUTER | \$9,308.12 | 0 | 0 | 20 | 59 | \$549,179 | 4 | \$37,232 | 53 | \$493,330 | \$1,079,742 |
| 37 | OC | 2840 | 012403591 | NZ | TANK,LUBRI | \$17,283.03 | 51 | 2 | 3 | 14 | \$241,962 | 28 | \$483,925 | 19 | \$328,378 | \$1,054,265 |
| 38 | OC | 1560 | 015301912 | FL | CELL,FUEL | \$18,201.45 | | | | 35 | \$637,051 | 9 | \$163,813 | 9 | \$163,813 | \$964,677 |

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Commercially-Used Overhauled Program



Prototype



Pilot 2011-2012

- 1 approved item
- 1 contract awarded

RESULTS:

- \$36.7M saved
- 84 days reduced PLT

Expand



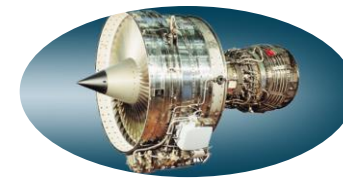
2012-2014

- 38 approved items
- 31 added through SAR process
- 12 contracts awarded

RESULTS:

- \$45.6M saved
- 301 days reduced PLT

Standardize



2015 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

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Contact Information



- SASPO
 - Website: <http://www.tinker.af.mil/429scms.saspo/429scms.workflow.saspo@us.af.mil>
 - Email: 429scms.workflow.saspo@us.af.mil
 - Address: 3001 Staff Drive Suite 2AC1 94B
Tinker AFB, Oklahoma
73145-3009

- AFSC Small Business Office
 - Website: <http://www.tinker.af.mil/sbo.asp>
 - Email: afsc.sb.workflow@tinker.af.mil
 - Address: 3001 Staff Drive Ste 1AG 85A
Tinker AFB, Oklahoma
73145-3009



SAR Preparation Training



***Propulsion
Qualification Requirement
SAR Package Preparation***

3:30 to 5:00

***Mr. David Medina
AFLCMC/LPSEZ
(405) 734-8769
Email: david.medina@us.af.mil***



Questions

AF SUSTAINMENT CENTER

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