NAWCAD Lakehurst Industry Day

Welcome

14 December 2021

Presented by:

Ms. Kathy Donnelly, Executive Director

Presented to: NAWCAD Lakehurst Small Business Roundtable

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NAWCAD Lakehurst Industry Day

Procurement Department

14 December 2021

Presented by:

Marybeth Kacek, Chief of Contracting Office

Patrick Smith, Deputy Chief of Contracting Office

Presented to: NAWCAD Lakehurst Small Business Roundtable

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Lakehurst Procurement

- Introductions/Backgrounds
  - Marybeth Kacek – Chief of the Contracting Office (CCO)
  - Patrick Smith – Deputy CCO
- Procurement Department Structure
- NAVAIR/Lakehurst Obligations and Actions
- Outlook/Expectations
- Small Business Goals
- Questions

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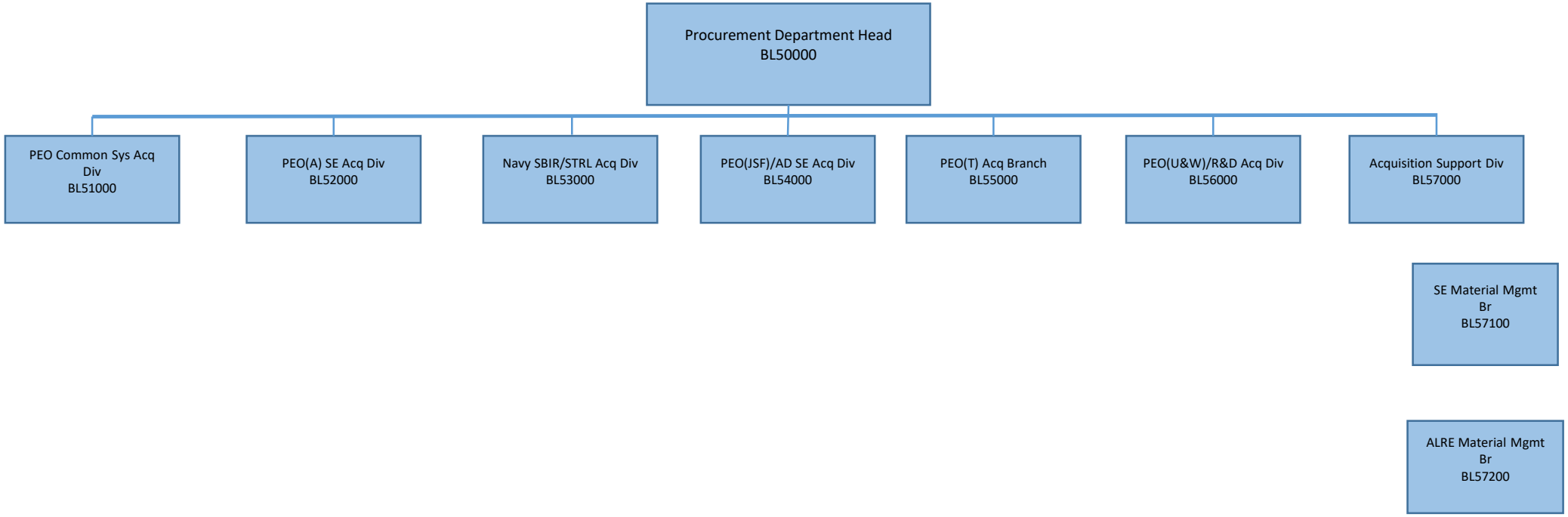
NAWCAD LKE PROCUREMENT DEPT

NAWCAD SE & ALRE GROUP (Lakehurst)
Procurement Department



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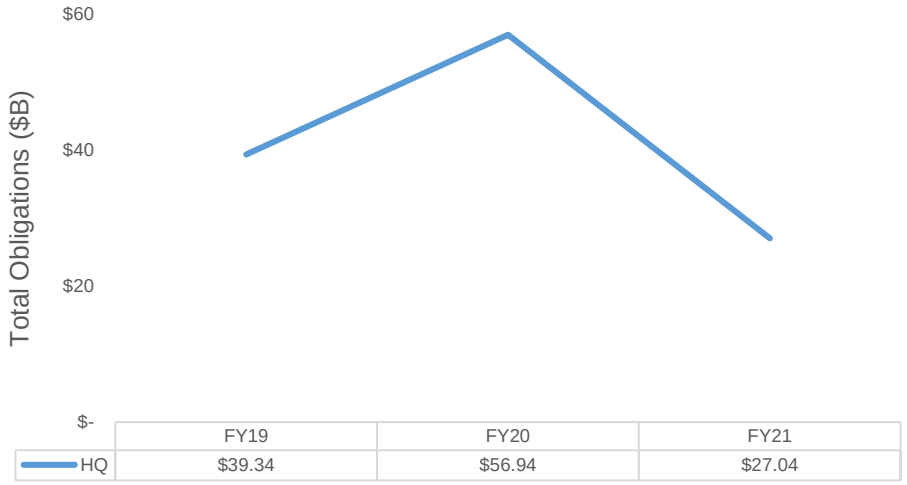
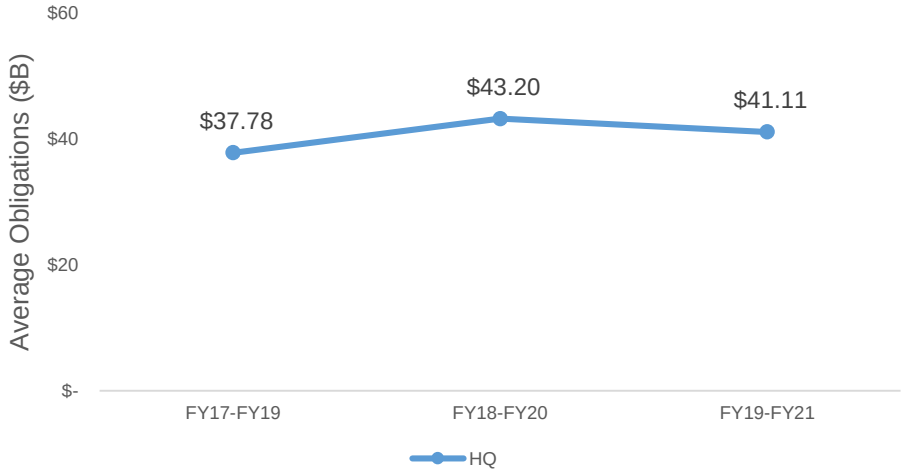
NAVAIR Obs and Actions
FY19 to FY21

Ech II Total Obligation Trends

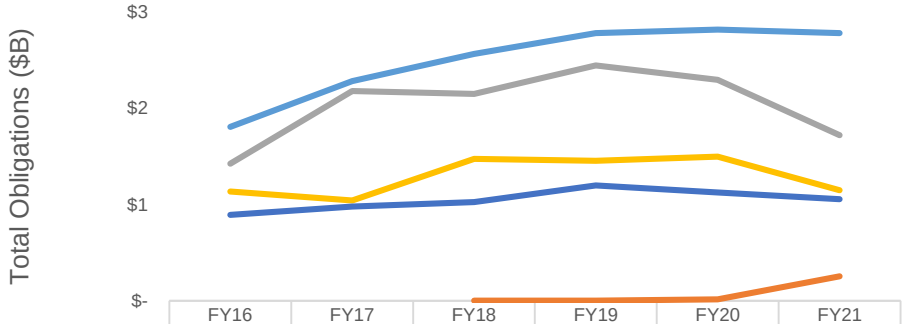


	FY19	FY20	FY21
HQ	$39.34	$56.94	$27.04

Ech II 3-Year Average Obligations

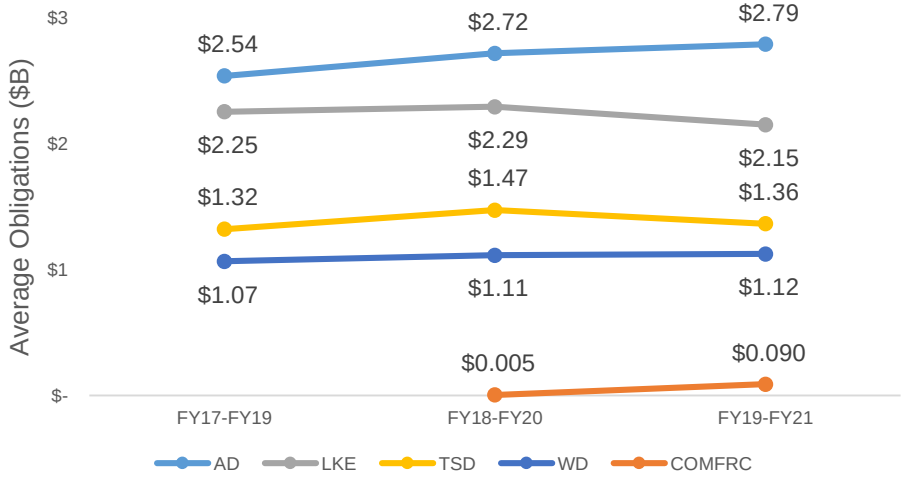


Ech III/IV Total Obligation Trends



	FY16	FY17	FY18	FY19	FY20	FY21
AD	$1.80	$2.28	$2.56	$2.78	$2.82	$2.78
LKE	$1.42	$2.18	$2.15	$2.44	$2.29	$1.72
TSD	$1.13	$1.04	$1.47	$1.45	$1.49	$1.15
WD	$0.89	$0.98	$1.03	$1.20	$1.12	$1.05
COMFRC			$0.00	$0.00	$0.02	$0.25

Ech III/IV 3-Year Average Obligations



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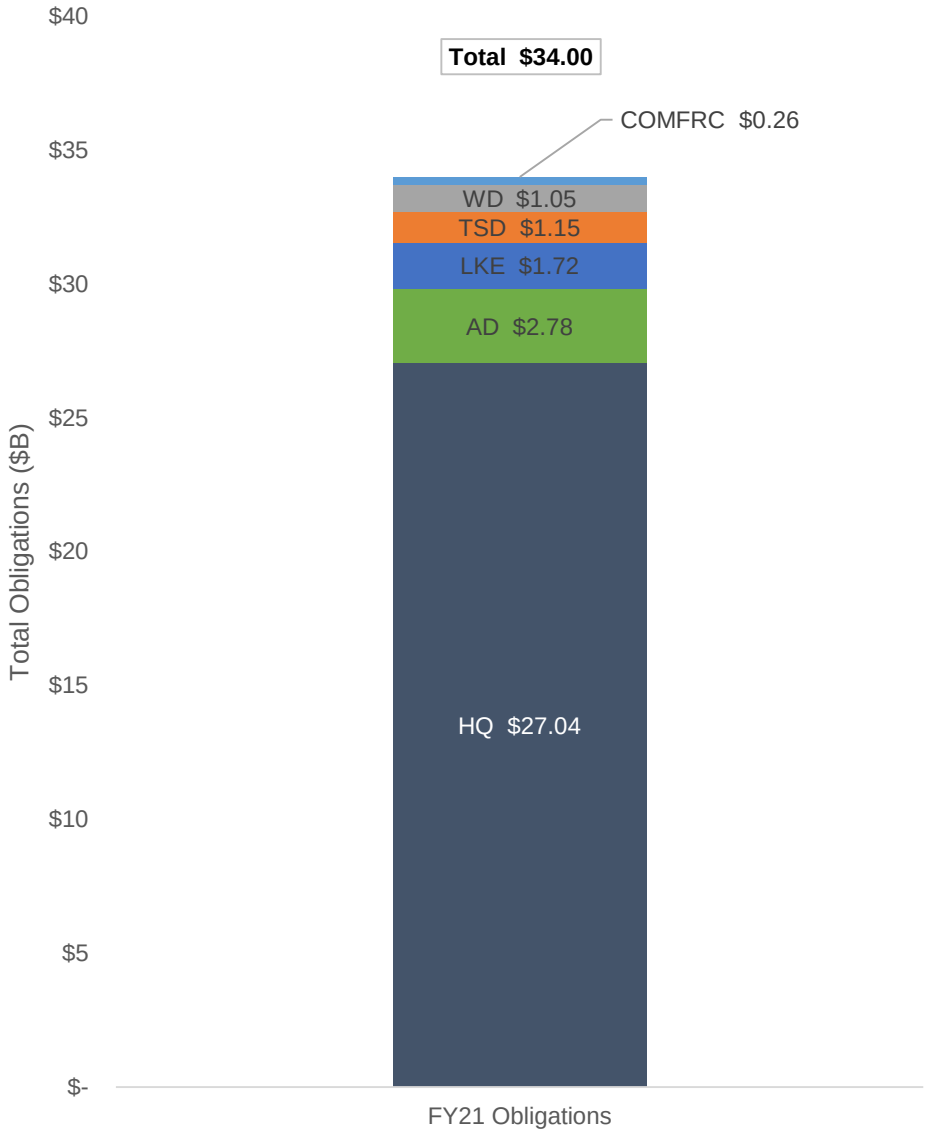
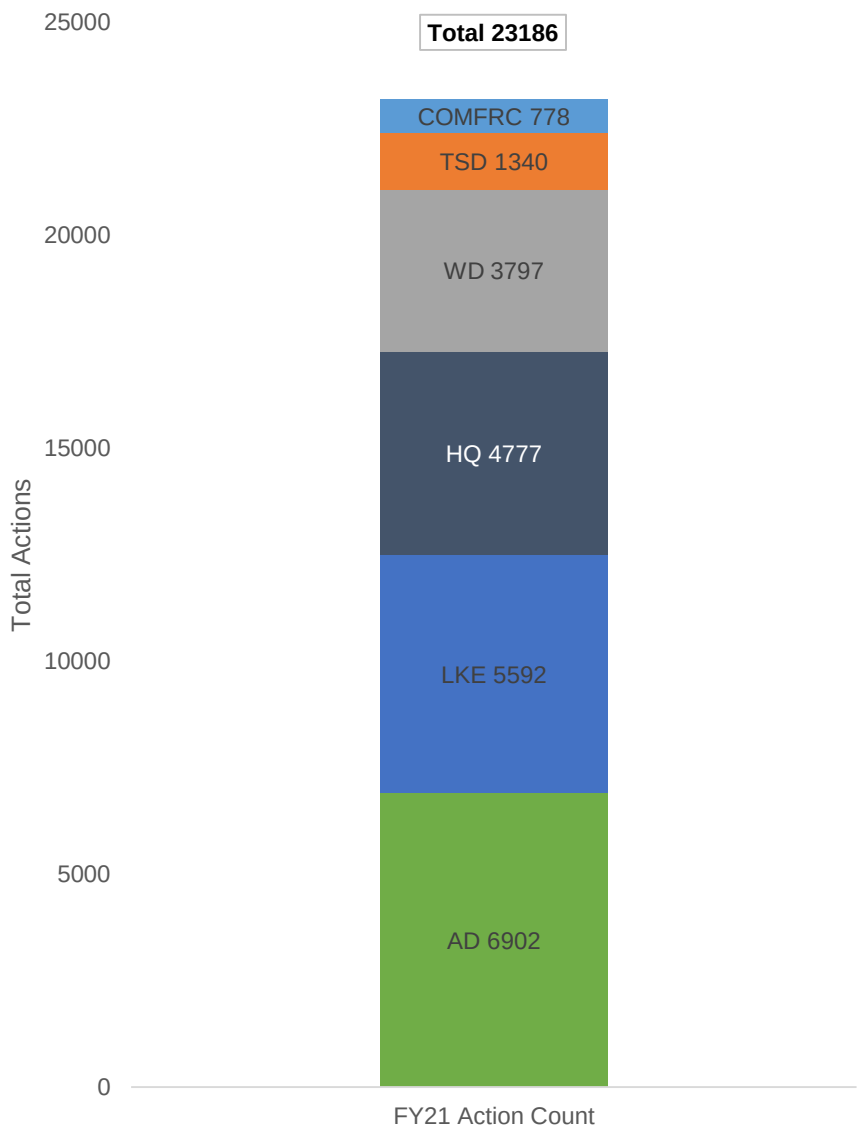
NAVAIR Obs and Actions
FY21 by HQ & Site

Total Obligations



Total Actions



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Outlook/Expectations

- Initiatives
  - Increase obligations to AbilityOne over the next 5 years
- Continued support of existing customers/requirements
- Awarding suite of contracts for maximum flexibility/responsiveness
  - Indefinite Delivery Indefinite Quantity
  - “C” Type
  - Basic Ordering Agreements
  - Blanket Purchase Agreements
  - Purchase Orders
  - Task Orders

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Small Business Goals
FY21 Targets/Actuals

- Total actions: 5,485 Total dollars obligated: $1,717,620,060.74
- Total Dollars eligible for SB Awards $1,419,024,266.48 (4,846 actions)
- SB: Target 38.0% - Actual 60.5520%
- SDB: Target 7.0% - Actual 10.9518%
- VOSB: No target - Actual 6.7841%
- SDVOSB: Target 2.75% - Actual 2.6552%
- WOSB: Target 7.0% - Actual 8.2329%
- HUBZone: Target 1.0% - Actual 1.4810%

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Small Business Goals

- Expect an increase in FY22 SB target goals
- FY22 Actions/Obligations to remain steady
- Utilize SBs as much as possible/appropriate
  - SB Set-Asides
  - 8(a) Program
  - Small Business Innovation Research Program
    - Contracting Center of Excellence for DON
  - Other Transaction Authority

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NAWCAD Lakehurst Industry Day

Office of Small Business Programs

14 December 2021

Presented by:

Dawn Chartier, Deputy Director

Presented to: Small Business Roundtable Industry Day

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NAVAIR Targets vs. Actuals

	NAVAIR FY18 Final	NAVAIR FY19 Final	NAVAIR FY20 Final	NAVAIR FY21 ACTUALS as of 30 SEPT 21
Prime Contracting Total Dollars	$ 27,900,703,687	$ 21,866,421,711	$ 30,897,733,583	$ 26,288,596,077
SMALL BUSINESS	7.515%	11.319%	9.260%	9.594%
Target	$1.9B	$1.9B	7.100%	7.100%
Dollars	$ 2,096,813,564	$ 2,475,062,660	$ 2,861,148,754	$ 2,522,211,856
SMALL DISADVANTAGED BUSINESS	1.544%	2.249%	1.859%	2.256%
Target	0.950%	0.950%	1.250%	1.250%
Dollars	$ 430,757,286	$ 491,864,769	$ 574,513,895	$ 592,979,924
VETERAN-OWNED SB	1.820%	2.700%	1.981%	2.146%
Dollars	$ 507,920,097	$ 590,476,567	$ 612,189,775	$ 564,063,851
SERVICE-DISABLED VETERAN-OWNED SB	1.071%	1.414%	1.153%	1.399%
Target	0.670%	0.670%	0.850%	0.850%
Dollars	$ 298,832,310	$ 309,288,443	$ 356,107,224	$ 367,905,134
WOMAN-OWNED SB	1.273%	1.510%	1.248%	1.339%
Target	0.850%	0.850%	0.850%	0.850%
Dollars	$ 355,208,536	$ 330,186,147	$ 385,589,779	$ 351,880,678
HIST. UNDERUTILIZED BUSINESS ZONE SB	0.100%	0.247%	0.177%	0.269%
Target	0.100%	0.100%	0.120%	0.120%
Dollars	$ 28,018,694	$ 53,996,204	$ 54,796,268	$ 70,588,058

DoD does not assign a VOSB goal.
Data derived from FPDS-NG Small Business Achievements by Awarding Organization.

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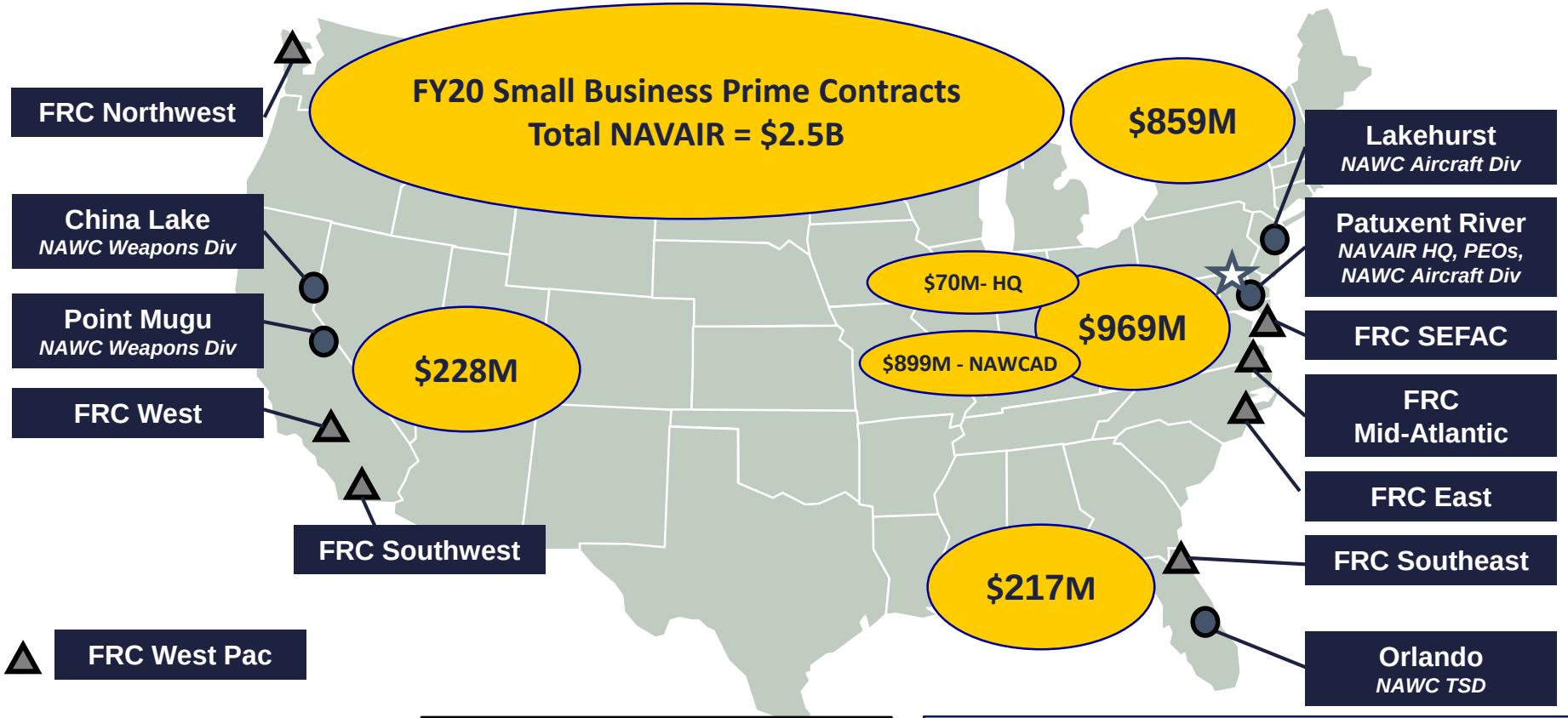
NAWCAD LAKEHURST Targets vs. Actuals

	NAWCAD LKE FY18 Final	NAWCAD LKE FY19 Final	NAWCAD LKE FY20 Final	NAWCAD LKE FY21 ACTUALS as of 30 SEPT 21
Prime Contracting Total Dollars	$ 1,572,372,953	$ 1,928,014,977	$ 1,890,516,959	$ 1,419,024,266
SMALL BUSINESS	52.549%	50.905%	61.267%	60.552%
Target	38.000%	38.000%	38.000%	38.000%
Dollars	$ 826,273,512	$ 981,459,051	$ 1,158,270,610	$ 859,247,586
SMALL DISADVANTAGED BUSINESS	9.337%	8.424%	9.588%	10.952%
Target	7.000%	7.000%	7.000%	7.000%
Dollars	$ 146,809,703	$ 162,407,736	$ 181,253,493	$ 155,408,132
VETERAN-OWNED SB	8.062%	6.224%	7.187%	6.784%
Dollars	$ 126,767,844	$ 119,996,970	$ 135,863,382	$ 96,267,909
SERVICE-DISABLED VETERAN-OWNED SB	2.751%	2.154%	2.112%	2.655%
Target	3.000%	2.750%	2.750%	2.750%
Dollars	$ 43,262,821	$ 41,535,330	$ 39,921,301	$ 37,677,479
WOMAN-OWNED SB	10.067%	7.813%	8.276%	8.233%
Target	7.000%	7.000%	7.000%	7.000%
Dollars	$ 158,284,535	$ 150,626,804	$ 156,453,614	$ 116,827,336
HIST. UNDERUTILIZED BUSINESS ZONE SB	0.678%	0.603%	0.980%	1.481%
Target	1.000%	1.000%	1.000%	1.000%
Dollars	$ 10,668,076	$ 11,625,687	$ 18,521,127	$ 21,015,787

DoD does not assign a VOSB goal.

Data derived from FPDS-NG Small Business Achievements by Awarding Organization.

FY21 SMALL BUSINESS OBLIGATIONS



NAVAIR HQ

NAVAL AIR WARFARE CENTER

FLEET READINESS CENTER

Weapons West Coast Hub

- *Missiles / Freefall weapons*
- *Weapon System Integration*
- *Electronic Warfare Systems*
- *Land Range / Sea Range*
- *Non Lethal Weapons*

Aircraft East Coast Hub

- *AIR VEHICLES*
- *PROPULSION & POWER*
- *AVIONICS & SENSORS*
- *SUPPORT EQUIPMENT AND AIRCRAFT LAUNCH & RECOVERY EQUIPMENT*
- *UAVS*
- *ATLANTIC TEST RANGE AND GROUND SYSTEMS TEST FACILITIES*
- *HUMAN PERFORMANCE / SIMULATOR SYSTEMS*

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NAWCAD LAKEHURST FY22 ytd 29 Nov 2021

Total available for SBs: $128,870,501.28
Dollar obligated to SBs: $102,179,192.58 79.2883%
SDB: $20,706,544.38 16.0677%
VOSB: $12,020,294.75 9.3274%
SDVOSB: $3,015,316.26 2.3398%
WOSB: $5,573,522.23 4.3249%
HUBZone $4,373,223.88 3.3935%

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Changes

Threshold Changes

- Subcontracting Plans: the threshold for subcontracting plans increases to $750,000 (previously $700,000) on contracts other than construction. The threshold for construction contracts remains $1.5 million;
- Section 864, NDAA 21 Pub L 116-283 changes the dollar threshold for sole source acquisitions with 8(a), HUBZones and WOSBs to

$7M

3 Final FAR Rules:

1. Defined what constitutes a good faith effort to comply with a subcontracting plan
2. Revised the limitation on subcontract under FAR19.505 – Limitation on Subcontracting and NonManufacturers Rule (was previously FAR Deviation 2020.O0008 Rev 2)
3. Allows the SBA PCR to review any acquisition so that the can make recommendations for improving competition from SB concerns

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NAWCAD Lakehurst Industry Day

Mission Operations & Integration Department

14 December2021

Presented by:

Gerry Mollo, MO&I Department Head

Presented to: Small Business Roundtable Industry Day

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Mission Operations & Integration Department

NAWCAD Lakehurst's Mission Operations & Integration Department provides critical Capabilities and Expertise for the SE and ALRE Products delivered to the Fleet.

Logistics & Maintenance Integration Division

- Design Interface & Maintenance Planning
- Technical Data
- Training, including VR/AR
- Metrology Engineering & Calibration

Engineering Integration Division

- System Safety/R&M
- Air-Ship Integration
- Materials Engineering
- Cost Analysis/Estimating/Scheduling/EVM
- System Standardization and PHS&T

Digital Engineering Division

- Cyber
- Enterprise Tools
- Labs & Infrastructure
- Data Analytics
- Strategic Technologies
- Design & Analysis

Capabilities and Expertise
For the SE/ALRE Mission

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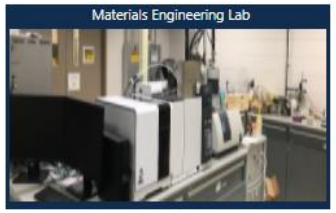
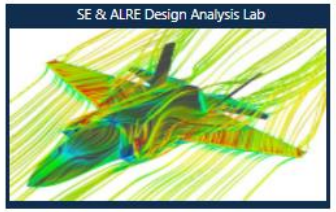
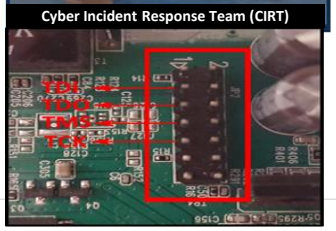
Mission Operations & Integration Department Labs

December 2021







Carrier Analysis Lab (CAL)

Integrated Diagnostics and Automated Test Systems (IDATS) Lab

Materials Engineering Lab (MEL)

RDT&E Network Services Center (NSC)

Integrated Support Environment (ISE) Lab

SE & ALRE Design Analysis (SADA) Lab

Robotics and Intelligent Systems Engineering (RISE) lab

Navy Calibration Lab (NCL)

Collaborative Research in Engineering , Analysis & Training in Immersive Virtual Environments (CREATIVE) Lab

Cybersecurity Vulnerability Assessment Lab (CVAL)

Advanced Deck Handling Technology Evaluation Center (ADHaTEC) Lab

Innovative Naval Sensing & Perception Improvement for Research & Engineering (INSPIRE) Lab

Software Analytics & Fusion Environment/Model Based Systems Engineering (SAFE/MBSE) Lab

Packaging, Handling, Storage & Transportation (PHS&T) Lab

Supply Chain Risk Management (SCRM) Lab

Cyber Incident Response Team (CIRT) Lab

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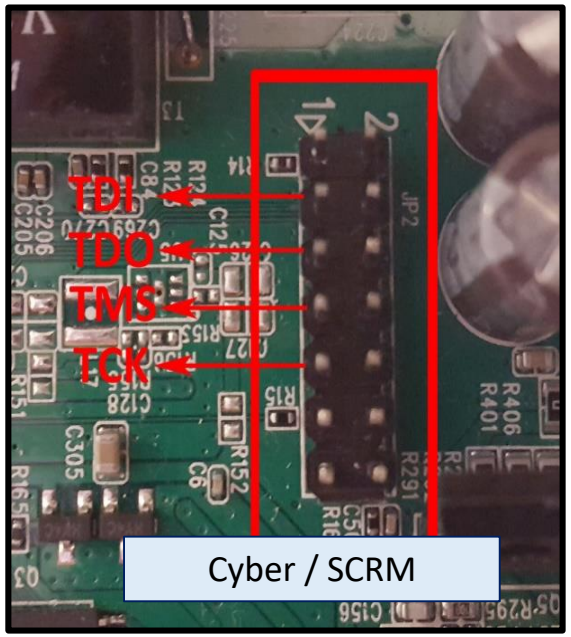
Mission Operations & Integration Department Highlights

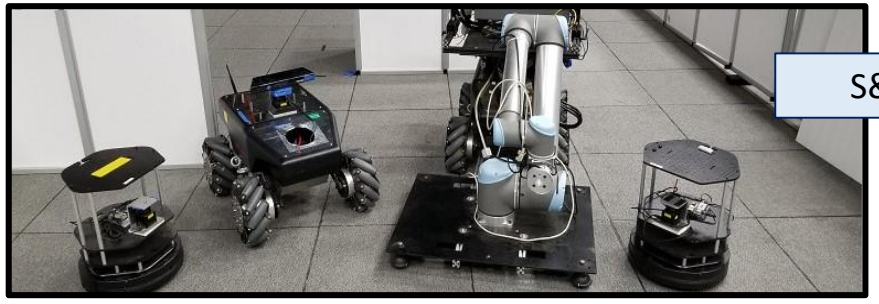
UAS Emulator
@ ADHaTEC



Cyber / SCRM

A/SI for Deployment Planning
(CVN 78 et al)

Data Analytics / Visualization



S&T

Virtual & Augmented Reality

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What is the Drive Towards Digital Transformation?

Strategic Objective:

"Deliver Performance at the Speed of Relevance"[1]

- Provide NAWCAD-Lakehurst with a Range of Innovative Technology and Processes that Enable Rapid Development and Collaboration
- Enhance the Informed Decision-making Capabilities of NAWCAD-Lakehurst, and Other Partners, Through the Use of Strategic Information Management and Analytics
- Identify and Proactively Foster Technological Advancements that ALRE & SE Partners Can Use to Increase Speed and Performance to The Fleet
- Highlight Cybersecurity as a Performance Metric and Provide an Independent, Objective, Repeatable Assessment Capability to Measure It
- Ensure That Digital Products Contribute to, Rather than Detract From, Workplace Productivity and Moral

Meeting This Objective will *Require* a Digital Transformation -- Analog Processes and Analog Thinking Simply cannot Keep Pace with Our Adversaries, Much Less Maintain a Competitive Advantage.

[1] *2018 National Defense Strategy*

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Digital Engineering

Data & Cyber Analytics

- Analyzing Large, Diverse, & Complex Data Streams to Inform Decisions in Real Time
- Cyber Supply Chain Risk Analysis
- Cyber Incident Response

Design Analysis

- Model Based Engineering and Design
- Additive Manufacturing (3D Printing)
- Model Based and Digital Testing & Analysis

Enterprise Tools

- Development, Lifecycle Support, and Licensing of Software Tools to Support the NAWCAD Lakehurst Enterprise

Strategic Technologies

- Strategic Planning of Research and Development of Next Generation Technology as Applicable to ALRE & SE

Cyber

- Cyber Risk Management Framework (RMF) Assessment & Authorization Activities for ALRE & SE
- Cyber Penetration Testing
- Cyber R&D

Labs & Infrastructure

- Network and Information Technology Infrastructure Support for All NAWCAD Lakehurst Operations
  - Includes RDT&E and Production Network Environment Support
  - Phone Service
  - Video Conference Support

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Distribution Statement A -Approved for public release: distribution is unlimited.

Questions

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NAWCAD Lakehurst Industry Day

Aircraft Launch and Recovery (ALRE) Department Overview & Opportunities

14 December 2021

Presented by:

Richard Epstein

Presented to: Small Business Roundtable Industry Day

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ALRE Mission and Scope

Mission Description

- Provide life cycle management of all Aircraft Launch and Recovery Equipment (ALRE) and Marine Corps Expeditionary Airfield (EAF) equipment

Scope

- ~2250 deployed ALRE systems
- 55 ALRE Programs/Products

Key Message

- Safe & expeditious launch & recovery of aircraft from ships at sea and expeditionary airfields

Note: NAWCAD Lakehurst ALRE Department supports PMA 251 ALRE Program Office

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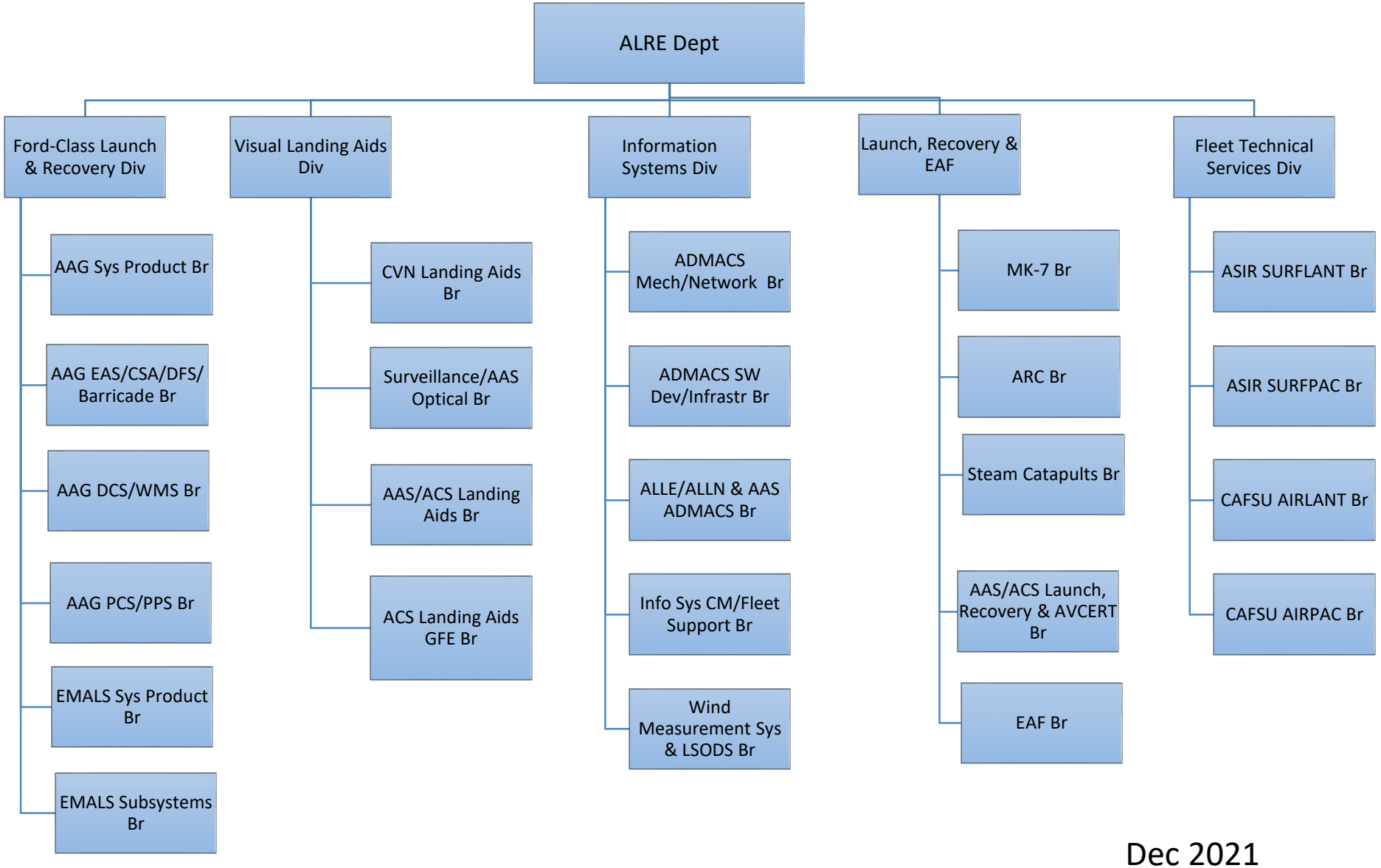
NAWCAD SE & ALRE GROUP (Lakehurst)
Aircraft Launch & Recovery Equipment Department



Dec 2021

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Work Is Along Product Lines

- Launch
- Recovery
- Visual Landing Aids
- Information Systems
- Expeditionary Airfields

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Work Is Along Product Life Cycle

- Design and Development
- Installation
- Field Support
- Maintenance
- Enhancement

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Tasks Involve All Aspects of Work

Disciplines:

- Engineering (Systems, Hardware, Software)
- Information Technology (incl Cyber Security)
- Program Management (incl Acquisition)
- Logistics (incl LORA and Training)

Tasks address:

- New design for new requirements
- Enhancements for changing requirements
- Obsolescence of HW and SW at all levels
- Cyber Vulnerabilities

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Major Launch Products

- Electromagnetic Aircraft Launch System (EMALS)
- Steam Catapults
- Low Loss Launch Valve (LLLV)
- Integrated Catapult Control Stations (ICCS)
- Jet Blast Deflector (JBD)

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Major Recovery Products

- Advanced Arresting Gear (AAG)
- Mk 7 Arresting Gear
- Aircraft Recovery Control (ARC)
- Recovery Assist, Secure, & Traverse (RAST)
- Aircraft Ship Integrated Secure & Traverse (ASIST)

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Major Visual Landing Aid Products

- Vertical/Short Take-Off Landing-Optical Landing System (VSTOL/OLS)
- Improved Fresnel Lens Optical Landing System (IFLOLS)
- Manually Operated Visual Landing Aid System (MOVLAS)
- Long Range Line-up System (LRLS)
- Next Generation Visual Landing Aids (NGVLA)
  - Advanced Stabilized Glide Slope Indicator (ASGSI)
  - Advanced Flight Deck Lighting (AFDL)
- Surveillance
  - Integrated Launch and Recovery TV Surveillance (ILARTS)
  - Helicopter Operations Surveillance System (HOSS)
  - Amphibious Low Light Surveillance System (ALLSS)

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Major Info System Products

- Aviation Data Management and Control System (ADMACS)
  - Flight Deck Management System (FDMS)
  - Aviation Weapons Information Management System (AWIMS)
- L-Class ADMACS
- ALRE Technology Integration Center (A-TIC)
- Wind Measurement System
  - Moriah Wind System (MWS)
  - Digital Wind System (DWS)
- Landing Signal Officer Display System (LSODS)

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Major Expeditionary Airfield Products

- Airfield Surfacing (matting)
- Aircraft Recovery (M-31)
- Airfield lighting (Sustainment Lighting System)
- Terminal Guidance (FLOLS variant)

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Other ALRE Interfaces

- Cyber Security
- Network Support
- Air - Ship Integration
- Test Facilities and Software Lab
- Cost Analysis / EVM
- Support Equipment
- Training
- Etc ……..

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Opportunities for Contracting

- Product related support:
  - Independently developing or producing all or part of any system within the ALRE product line
- Services support:
  - Supporting the government in developing or maintaining any of the systems within ALRE
- Other types of support:
  - Alteration Installation Team and other installation support

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Planned Requirements

- Information on most acquisitions planned by and for ALRE can be found in Long Range Acquisition Forecast (LRAF)
- Search for the choice Naval Air Systems Command
- Download entire spreadsheet for access to all planned acquisitions
- Filter the PMA / Subcompetency to be PMA-251
- Also filter the Contracting Activity Place of Performance to be
  - N68335 for Lakehurst, NJ
  - N00019 for Patuxent River, MD
- Information provided includes:
  - Estimated $
  - Anticipated solicitation FY and qtr
  - Anticipated contract award FY and qtr
  - Requirement Description
  - Incumbent Contractor
  - Sole Source or Competed

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Planned Requirement

Contracts for ALRE Services

- Requirement Descriptions: SOWs with new scopes and ranges of tasking for technical support are in various stages of development for supporting all product lines within the ALRE department
- Anticipated Contract Types: CPFF, Full and Open as well as Small Business set asides
- New Contracts Expected:
  - Program Management (2nd Quarter FY22)
  - Logistics (3rd Quarter FY22)
- Solicitations Expected:
  - Engineering (2nd Quarter FY22, RFI may be out in a few weeks)
  - Engineering (4th Quarter FY22, RFI planned for summer 2022)

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Questions

???

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NAWCAD Lakehurst Industry Day

Support Equipment Department Overview & Opportunities

14 December 2021

Presented by:

Brian Barr

Presented to: Small Business Roundtable Industry Day

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Support Equipment Department

- The Navy currently has over 100,000 items of SE with operational and maintenance activities worldwide.

- Executes the timely acquisition and delivery of Support Equipment (SE) for U.S. Navy (USN), U.S. Marine Corps (USMC), U.S. Air Force (USAF), International Partners and Foreign Military Sales (FMS) cases. Provides skilled personnel resources and processes to execute the life cycle management, engineering and logistics support for the acquisition and sustainment of Common Support Equipment (CSE) and Peculiar Support Equipment (PSE).

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Support Equipment Department Facts and Figures

- 7 Det Locations
  - Indy (11)
  - New River (2)
  - St. Louis (4)
  - San Diego (1)
  - Miramar (1)
  - Crystal City (2)
  - Patuxent River (1)

- 635 Work Years
  - 471 Civilians
  - Approx 164 WYs CSS

- Customers
  - 23 PMA’s
  - 5 PMS’s
  - JSF JPO
  - Army & Air Force
  - FMS Customers
  - CSA Customers

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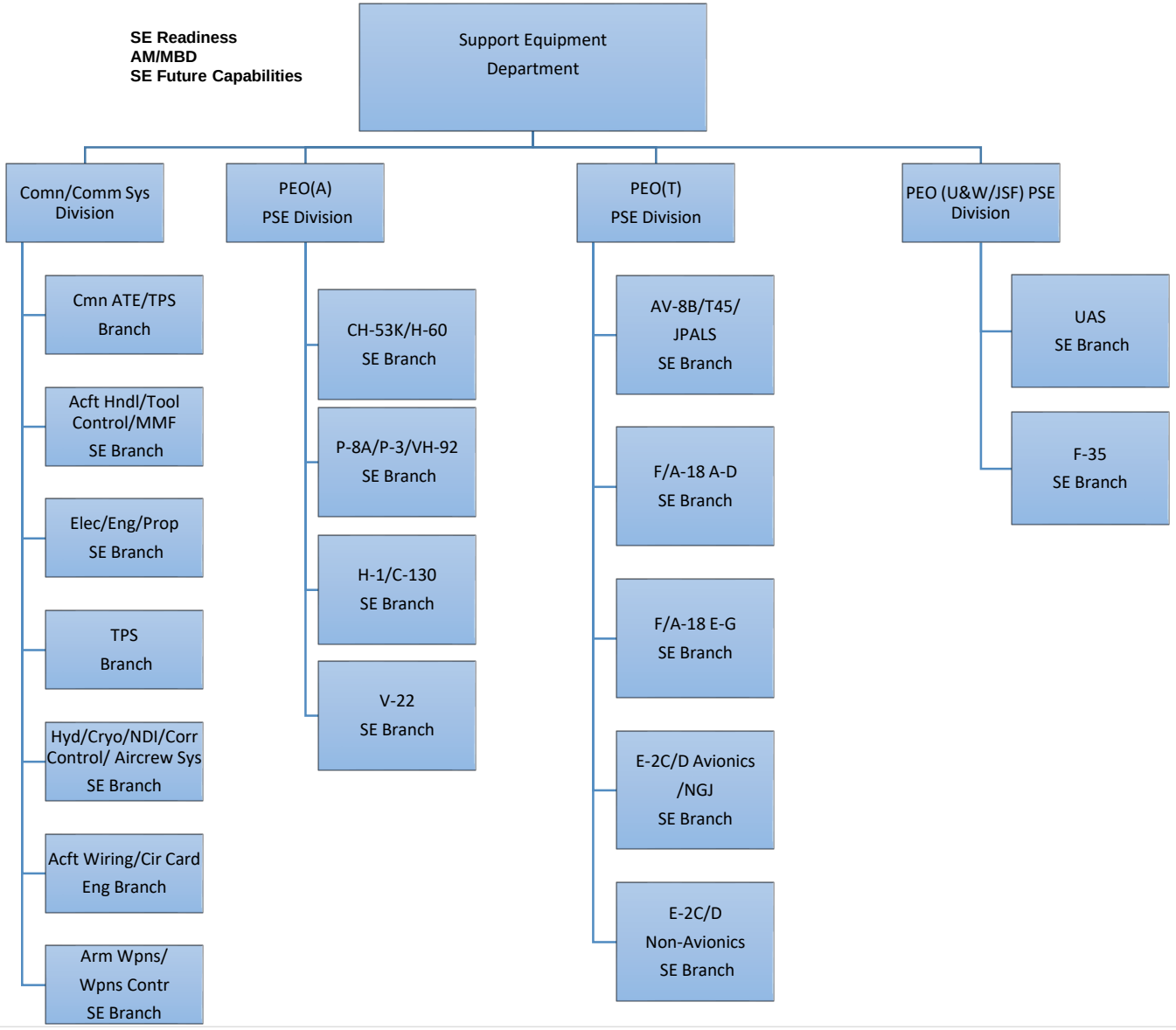
NAWCAD SE & ALRE GROUP (Lakehurst)
Support Equipment Department

SE Readiness
AM/MBD
SE Future Capabilities



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SE Commodities and Equipment Types

Handling, Servicing, Inspection
- Aircraft Handling Vehicles
- Aircraft Crash Salvage
- Electrical Servicing
- Hydraulic Servicing
- Hydraulic Maintenance
- Aircraft Maintenance Platforms
- Life Support
- Cryogenics
- Non-Destructive Inspection
- Corrosion Control

Armament
- Armament Loading
- Armament Transport

Propulsion
- Engine Test Systems
- Engine Maintenance

Pollution Prevention
- Painting/Surface Preparation
- Washing Operations
- Aircraft Maintenance Equipment/ Operations
- Facility Recycling

Avionics & Weapons Tester Commodities
- Electronic Warfare
- Weapons Control
- Communications
- Electro-Optics
- Software Loading
- Navigation
- Maintenance Data Processing
- Instrumentation
- Radar

Automatic Test Equipment (ATE) & Test Program Sets (TPSs)
- Hybrid Consolidated Automated Support System (CASS) & Platform TPSs
- EO CASS & Platform TPSs
- HP CASS & Platform TPSs
- CNI CASS & Platform TPSs
- RF CASS & Platform TPSs
- RTCASS
- eCASS

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SE is used at each Maintenance (O, I and D) Level and located at Shore, Ship and Mobile Maintenance Facilities

Aircraft Movement

- Tow Tractors
- Spotting Dollies
- Tow Bars
- Hand Steering Bar

Aircraft Servicing

- Fluids/Oils/Gasses
- Struts
- Tires
- Wash

Post-Mission Activities

- Transfer Mission Data
- Transfer Maintenance Data
- Red Gear
- Inspection

Pre-Flight Activities

- Transfer Mission Data
- HMD Ready Room Tester
- Inspection
- Chilled Fuel
- RRHB

Aircraft Mooring

- Secure/Chock
- Safing Pins
- Chains
- Red Gear

Armament & Weapons Handling Equipment/ Weapons Control SE

- Transport/Load Weapons
- Load CM Dispensers
- Check/Verify Stores Management Systems
- Reconfigure Aircraft

I-Level

- CASS Family of Testers/eCASS
- Avionics Test Sets
- Engine Module Swap and Repair
- Wheel and Tire Build Up
- Battery Servicing
- Composites

Depot Level Support

- Avionics/VMS
- Electrical System
- Fuel System
- Propulsion
- Landing Gear
- Structures

Maintenance/ Repair

- Airframe
- Surface Restoration
- Utility Systems
- Mission Systems
- Flight Controls
- Propulsion
- Hand Tool Kits
- Non-Destructive Inspection

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Common and Commercial Systems Support Equipment

- Provide cost effective aviation common support equipment in support of fleet operations and maintenance activities
- Fill requirements for replenishment of peculiar support equipment for out of production weapon systems
- Additional responsibilities are as follows:
  - Provide Support Equipment leadership role within NAE
  - Manage the Support Equipment Requirements Management Information System
  - Manage Aviation Support Equipment for Maritime Prepositioning Ships Program

PMA260D
Automatic Test Systems

eCASS

EO Subsystem

Operational Test Program Sets

RT-CASS

Corrosion Control

Aircraft Wiring SE

Cryogenics SE

Flight Line Testers

Engine Test Cells/ Propulsion SE

PMA260C
Common Ground Support Equipment

Aircraft Handling & Servicing Equipment

Non-Destructive Inspection

Bench Top Test Sets

Armament Handling & Transportation Equipment

Peculiar Support Equipment

- Provide cost effective, on time and sustainable aviation Peculiar Support Equipment (PSE) to all naval aircraft and system programs in support of Fleet operations and maintenance activities.

- Ensure the delivery of PSE end items to Fleet activities that have successfully passed all applicable performance, environmental, electro-magnetic interference, shock and vibration testing, and are suitable for Fleet use in their intended operational environments.

- Provide cradle-to-grave in-service engineering & logistics support for PSE items fielded worldwide across all United States Navy and Marine Corps for organizational and intermediate level maintenance activities for a wide range of aircraft programs, including: AH-1W, AV-8B, C/MH-53E/K, E-2C/D, NGJ, F/A-18C/D/E/F&G, S/H-60B/F/H/R, F-35, P-3, P-8, T-45, V-22, VH-92, C-130, C-40, MQ-4C, MQ-8B/C, MQ-9, MQ-25A, and RQ-21A.

Hydraulic Power Supply (P-8)

Multifunction Test Set (T-45)

UAV Launcher

Heavyweight Floor Crane (F-35)

Bridge Removal Tool Set (H-60)

Servo cylinder Test Stand (F-18)

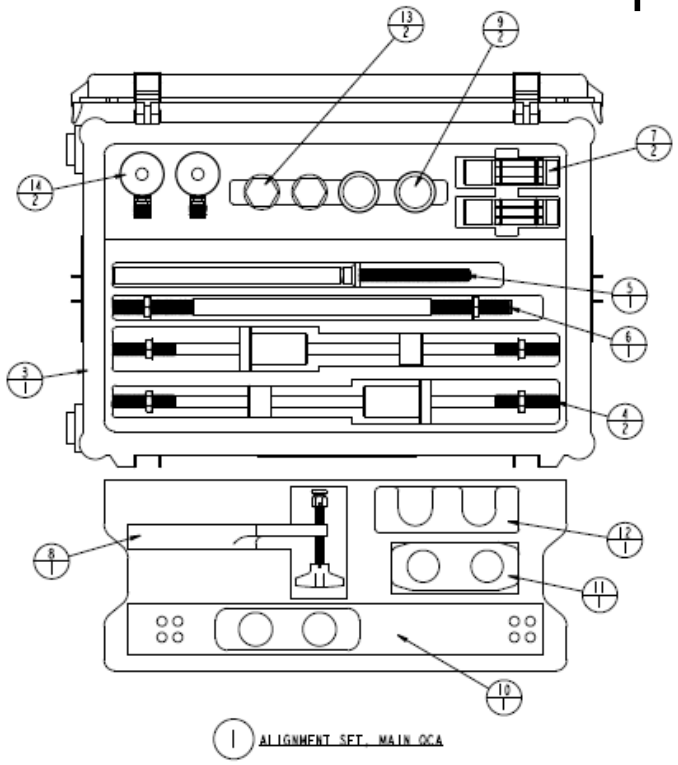
Battery Charger (MQ-4C)

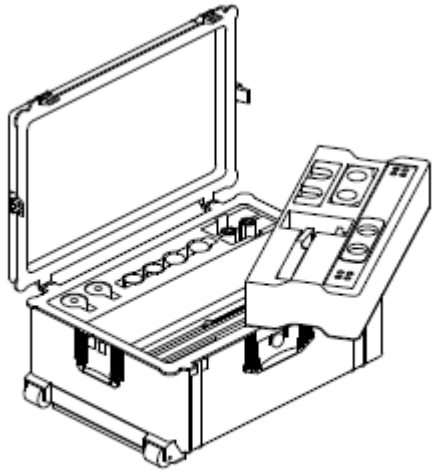
Helmet Mounted Display Test Set (F-35)

New Opportunities

Long Range Acquisition Forecast for PSE

- Contracting Opportunity: CH-53K Main Quick Change Assembly (QCA) Alignment Set
  - Requirement Description: FFP manufacturing effort for a minimum of 2 units with potential for 20 follow-on units.
  - RFP estimated for April 2022





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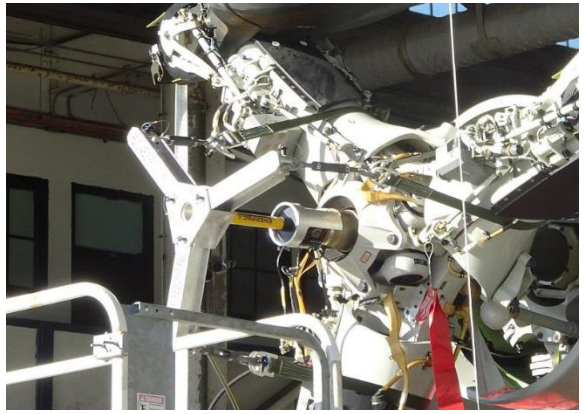
Long Range Acquisition Forecast for PSE

- Contracting Opportunity: Combo 10, Multiple SE items for the V-22 Aircraft
  - Requirement Description: 19 SE end items required for V-22 aircraft
  - RFP release March 2022



SERD 3904 P/N: 4026AS620-1
Hub & Blade Removal Tool

SERD 4118 P/N: 18D11324-1
Set, JIG, Reaming, Transmission Adapter

SERD 4286 P/N 18D12427-1
Trans-Adapter Lug, Swashplate, Tool Set

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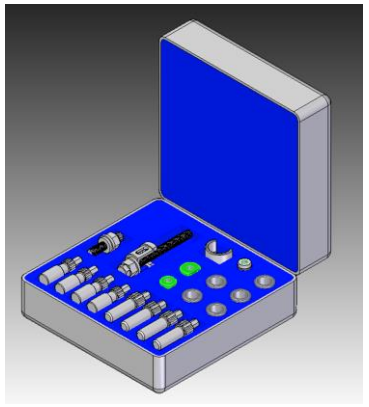
Long Range Acquisition Forecast for PSE

SERD	PN	Nomenclature
1119	AID-00245	Pusher/Fuller, Filter, Wash Flow, APU
3319	P/N 18D9823-1	LH/RH Fuel Feed Cell Bland Off Set
3329	18D9518-1	V-22 FWD/AFT Fuel Cell Bland Off Set
3344	18D9881-1	LH/RH AUX Fuel Cell Blank Off Set
3457	901-266-613-101	Fuel System Test Set, Navy COD Supplement
3459	901-266-618-101	Test Plug, Fuel System
3488	901-220-018-101	TOOL SET GROMMET INSTALLATION
3904	4026AS620-1	Hub & Blade Removal Tool
4094	18C11244-1	BLADE FOLD SUPPORT BONDING TOOL SET
4118	18D11324-1	Set, JIG, Reaming, Transmission Adapter
4119	18D11325-1	Transmission Adapter Cold Work Tool Set
4151	18D11453-1	Cold Expansion Puller Unit Set.
4237	18D11995-1	Tool Set, V-22 Flex Ring Wing Tower Brng
4258	4026AS555-1	Hub & Blade Stand, Post Extension
4263	18C12266-1	HYDRAULIC SWIVEL ASSY POSITIONING TL SET
4279	18D12373-1	Tool Set, Flaperon Fitting Bushing
4283	18D12456	Nacell Supplemental Tool Set
4286	18D12427-1	Tool Set, Trans-Adapter Lug, Swashplate
4287	18D12404-1	Bushing Tool Set



SERD 4279 P/N 18D12373-1 Tool Set, Flaperon Fitting Bushing

SERD 4119 P/N: 18D11325-1 Transmission Adapter Cold Work Tool Set

SERD 4258 P/N: 4026AS555-1 - Hub & Blade Stand, Post Extension

V-22 PSE

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Long Range Acquisition Forecast for PSE/CSE

- Contracting Opportunity: NGJ MB Program PSE/CSE production contracts:
  - Requirement Description:
    - CSE Lot 1 RFP Released 8/18/2021, 1 CSE and 1 PSE end item, multiple qtys, 5 year IDIQ
    - CSE Lot 2 RFP Est:12/12/21, 5 CSE end items, multiple qtys, 5 year IDIQ
    - L/R Weapons Hoist Adapters Est: 12/15/21, 2 PSE end items, multiple qtys, 5 year IDIQ
    - MSU-299/E RFP Est: 12/5/21, 1 PSE end item. This will be Posted to UNISON. Multiple qtys, 5 year IDIQ

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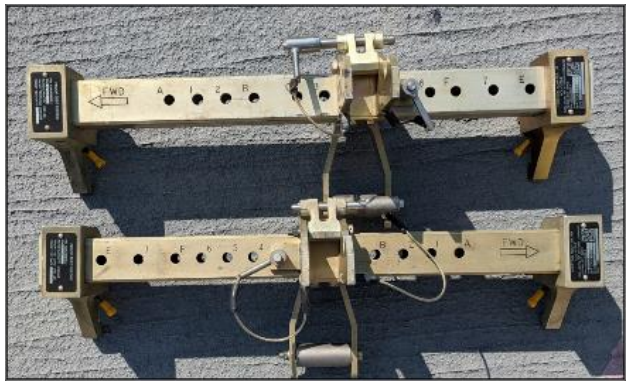
Long Range Acquisition Forecast for PSE/CSE

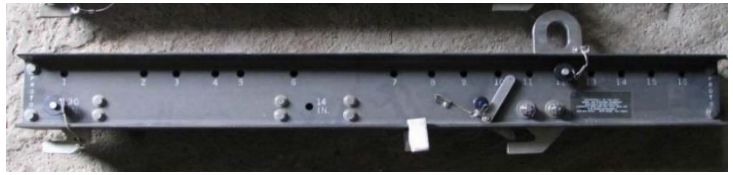


ADU-1070/E & ADU-1071E L/R Weapons Hoist Adapters
RFP Release Est 12/15/2021

MSU-299/E TJS Pod Stand, Aircraft
RFP Release Est 12/5/2021 (Unison)

CSE Lot 1

RFP Released: 8/18/21



Beam, Hoisting HLU-385/E

Weapons Carrier, Hoisting
MK51 Mod 1 (CVN mezzanine use)

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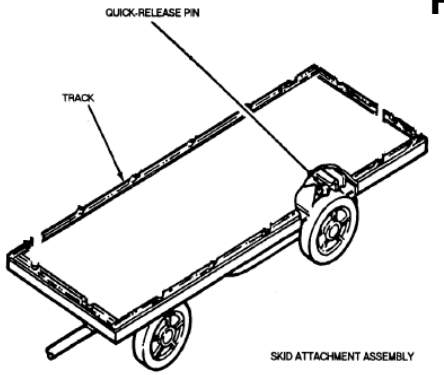
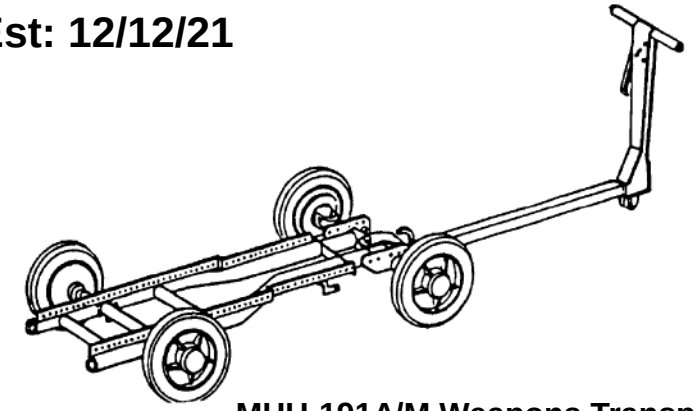
Long Range Acquisition Forecast for PSE/CSE

CSE Lot 2

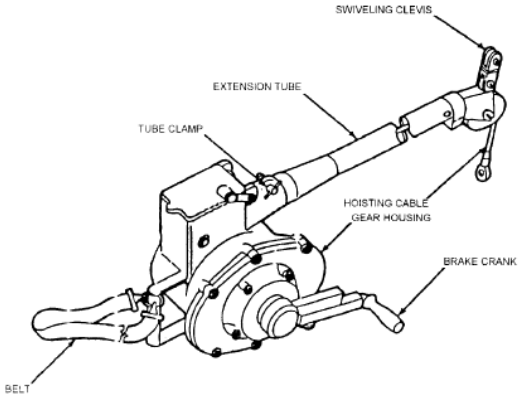
RFP Release Est: 12/12/21



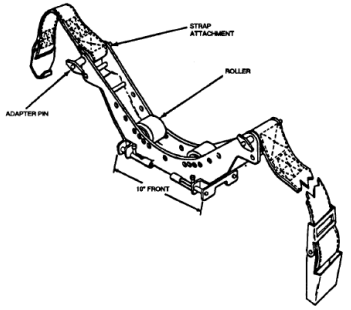
AERO-71A Skid Adapter



MHU-191A/M Weapons Transporter



HLU-288/E Hoist



AERO-58/A Skid, Front/Rear

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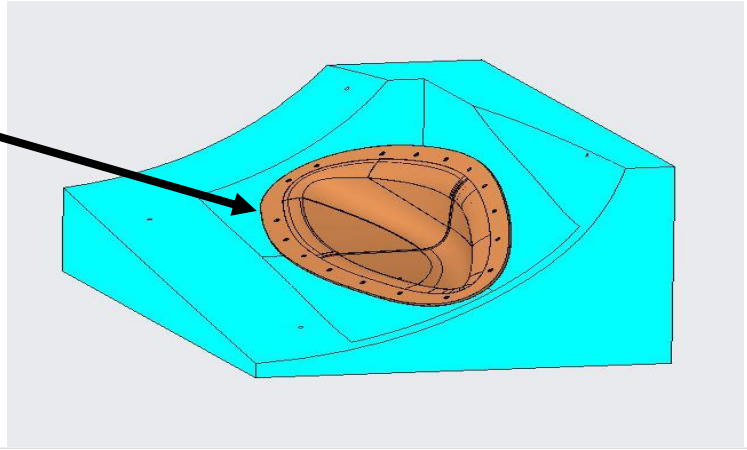
Long Range Acquisition Forecast for PSE

- Contracting Opportunity: ALQ-218 Aft Engine Bay Door Antenna Radome Cover
  - Requirement Description: Provides protection to the ALQ-218 Antenna and Radome when aft engine bay door(s) are removed during aircraft maintenance.
  - Build-to-print effort.
  - Estimated RFP Release in FY22

ALQ-218 Antenna Radome



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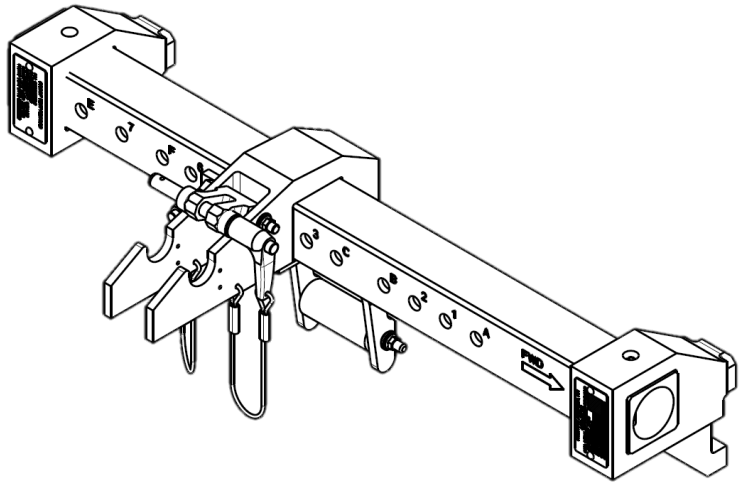
Long Range Acquisition Forecast for PSE

- Contracting Opportunities: Airborne Electronic Attack (AEA)
  - MSU-299/E Tactical Jamming System Pod Stand
  - L/R Weapons Hoist Adapters
  - Anticipated RFP Release dates: FY23



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Long Range Acquisition Forecast for PSE

- Current E-2 Peculiar Support Equipment (PSE) contracts with OEM Northrop Grumman for development of 28 PSE end items. Planning for small businesses to execute follow-on efforts
  - Potential Small Business opportunities in FY23:
    - Build-to-print manufacturing efforts for Production Units to meet fleet requirements
    - Repair/Support Efforts to maintain I-Level Test Benches
    - Modifications to PSE designs to address deficiencies or emerging requirements
    - Potential SE Replenishment efforts

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SED CSS

- Engineering Services, Follow-on, Seaport (3 year effort)
  - Engineering and Technical services, to include design, development, testing, integration, in-service engineering, SE installation, cyber engineering, logistics and program management engineering services needed to support the Naval Aviation weapon systems. Support will be for legacy, new and developmental Naval Aviation weapon systems.
  - Estimated RFP release: Feb 2022

- Program Mgmt Services, Follow-on, Seaport (3 year effort)
  - Program Management (PM) and technical work products needed in support of manned and un-manned aircraft systems Support Equipment (SE) and associated systems.
  - Estimated RFP release: July 2022

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SED CSS

Consolidated Contractor Support Services (C2S2) Contract

Description: Multiple Award Contract (MAC) Indefinite Delivery/Indefinite Quantity (IDIQ) Contractor support for SED to include all support required for PM, ENG, LOG & FM.

- Structured to support new MAO structure of integrated, product focused teams, better align with customer requirements, reduce administrative burden, increase efficiency and reduce costs.
- Additional goal to expand the industrial/vendor base for improvement of quality with increased competition
- Mix of full & open and set aside determined at the task order level
- 7 year PoP- 5 base with two (2), one (1) year options

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SED CSS

C2S2:

- **Timeline**
  - ✓ Request for Information/Sources Sought (27 April 2020)
  - ✓ NAWCAD Virtual Industry Day (30 June 2020)
  - ✓ Synopsis/Pre-solicitation Notice via beta.sam.gov (27 August 2020)
  - ✓ Draft RFP (without Sections L&M) via beta.sam.gov (19 October 2020)
  - ○ Solicitation release date TBD

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SED CSS

C2S2:

- All industry communication for Request for Proposal (RFP) will come through the Procuring Contracting Officer (PCO) and/or Contract Specialist.

- Naval Air Warfare Center Aircraft Division's (NAWCAD's) points of contact are:
  - Ms. Cindy Scheper, PCO
    - (732) 323-2408, cindy.scheper@navy.mil
  - Ms. Cheryl Abele, Contract Specialist
    - (732) 323-2800, cheryl.a.abele@navy.mil

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NAWCAD Lakehurst Industry Day

Prototype, Manufacturing, and Test Department Small Business Opportunities

14 December 2021

Presented by:

Jeff Lewis

Presented to: Small Business Roundtable Industry Day

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Mission Statement

- The Prototyping, Manufacturing, and Test (PMT) Department is a mission aligned multi-disciplined organization focused on providing rapid prototyping, unique expert manufacturing, industrial engineering services and testing expertise to support the design, development, fielding, maintenance and testing of ALRE and SE systems.

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Infrastructure

Prototype & Manufacturing Division

- **$500M+ of Prototype & Manufacturing Infrastructure, Facilities, and Assets to meet ALRE and SE Rapid Response Requirements**
- **305,000+ FT^2 of shop & office floor space under 15 buildings over 12 acres including high bay crane and lift support**
- **165 Artisans along with 138 engineers and support personnel (303 Total) collocated with ALRE & SE Design and In-Service Engineers**
- **300+ conventional and Computer Numerically Controlled (CNC) lathes, presses, mills, water jets, Laser & Plasma Cutters, wire EDM, heat treat furnaces, and producibility tools.**
- **Coordinate Measuring Machines (CMM), Long-Range Laser Measuring Tools, Non-Destructive and Destructive Test Equipment**
- **Dedicated facilities for mechanical and electrical reverse engineering including circuit cards**
- **NAVAIR's Lead Metallic Additive Manufacturing Facility for Powder Bed and Powder Blown Systems including CT Inspection.**

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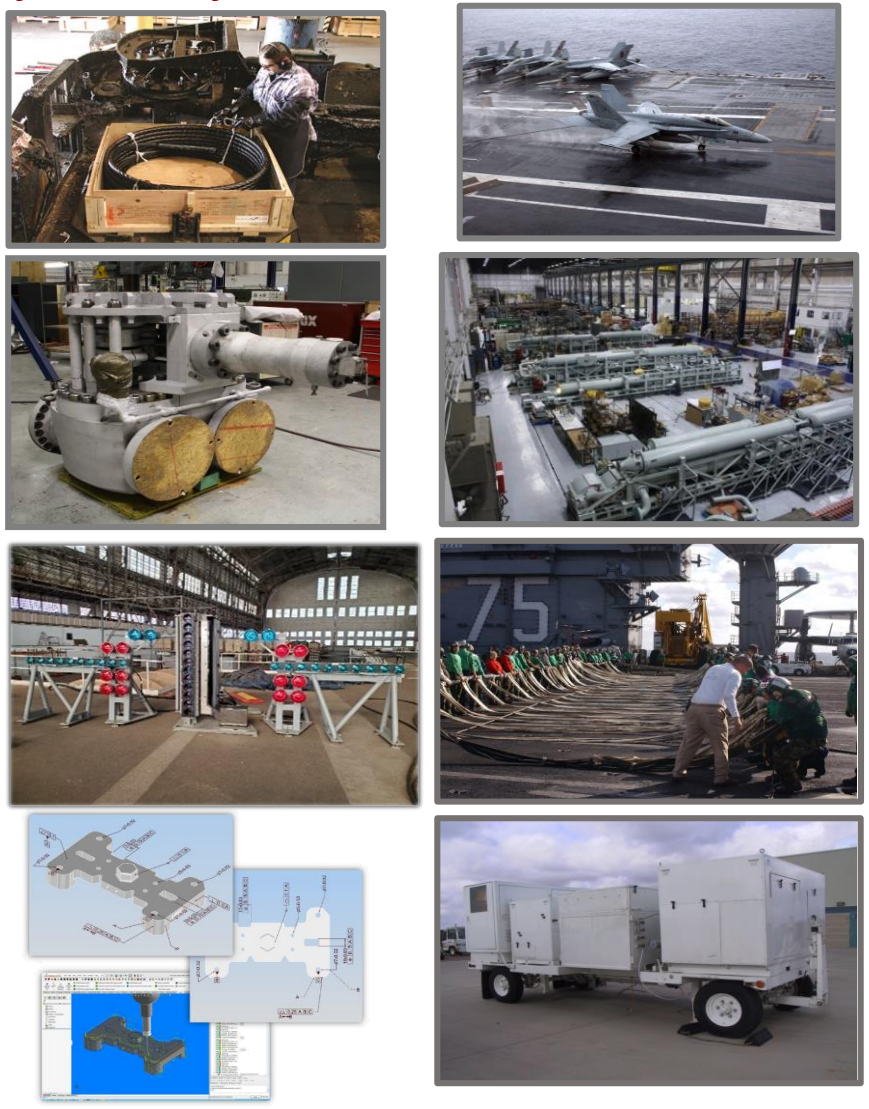
Prototype and Manufacturing Facilities/Capabilities

NAWCAD Lakehurst's Prototype and Manufacturing Division is an essential resource for support of Naval aircraft and associated Aircraft Platform Interface missions.

- ***Unique Sole*** **manufacturer and Fleet provider of Cross Deck Pendants (CDPs) for USN, USAF and USMC EAF** as well as **Low Loss Launch Valves (LLLV) for Nimitz Class Carriers** and Cloth Barricades
- **Identified Depot for ALRE systems including legacy MK7 Arresting Engines, LLLVs,** next generation EMALS & AAG, **and Visual Landing Aids (VLA). Also Depot for Cryogenics and limited SE.**
- **Recognized Prototype and Rapid Response Facility for Naval Aviation**
- **Engineering design support** including **producibility, drawing & model validation, and material selection.**
- **Full Spectrum QA support, ALRE Flight Safe management and Material Receipt Inspection**
- **Additive Manufacturing, Digital Thread and Digital Manufacturing Technologies**
- **DMSMS, Obsolescence, and Reverse Engineering Support for SE & ALRE mechanical, electronics, avionics, and circuit card components**



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Test Facilities/Capabilities

Ship Installation Support

System Certification Support

Service Change, ECPs and EI Support

Developmental Test / Design Support

AC Compatibility Testing

Sites & Systems Instrumented

Fleet Representative Systems

Final LLLV Acceptance

Final CDP Master Reel Acceptance

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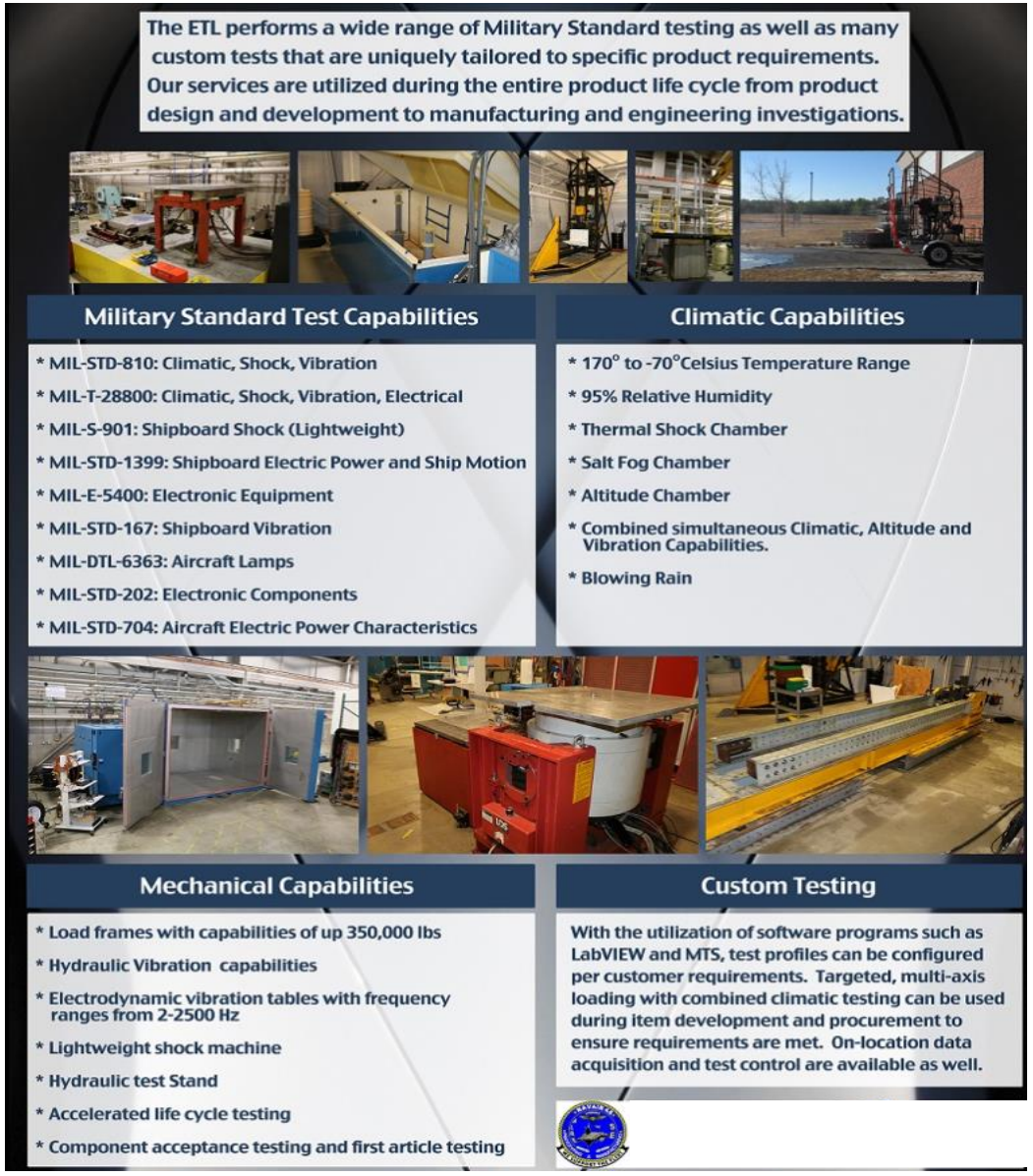
Test Facilities/Capabilities

Test Capabilities:

⇒ Wire rope testing and qualification
⇒ Ship– and shore-based arresting gear testing
⇒ Aircraft barricade testing
⇒ Aircraft launch and recovery bulletin development
⇒ Aircraft compatibility
⇒ Arresting gear rapid cycle testing
⇒ Engineering investigations
⇒ Customizable high-speed/high-g deadload test vehicles
⇒ In-service engineering service change development/evaluation
⇒ Custom designed and built instrumentation systems to meet specific rqmts.
⇒ State-of-the-art optical instrumentation and highspeed video imaging
⇒ Electromagnetic launching and arresting technology
⇒ Fully qualified military operators and maintainers
⇒ Test engineering and rapid response deployable test teams

Test Facilities/Capabilities



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Contracting Business Profile

FY-21

	Total	%SB	%LB	%8(A)	Total SB
Infrastructure Material	$1.3M	100%	0%	0%	$1.3
Program Material	$7.9M	99%	1%	0%	$7.7
Infrastructure Services/Labor	$4.0M	53%	0%	47%	$4.0
Program Material/Services Executed	$5.0M	80%	20%	0%	$4.2
Total	$18.2M		$1.0M	$1.9M	$17.2M

Note: Numbers & Percentages Are Approximate Dollars in Millions and does not include purchases from the Federal Supply System

Bottom Line:

Approx. 95% of all contracting actions are within our SB contracting portfolio

Unison/BPA

AGENCY OPERATIONS REPORT

Unison Marketplace | October 1, 2020 to September 30, 2021

HIGH-LEVEL STATS

- 940 Awards with a total volume of $5,450,583.
- 8.2% savings on average, for $484,861 total.
- 6 bids and 2 Sellers achieved on average.

STATISTICS

Awards (#)	940
Awarded Target Volume ($)	$5,935,444
Awards Volume ($)	$5,450,583
Avg. Awards Volume ($)	$5,798
Savings ($)	$484,861
Savings (%)	8%
Avg. Sellers Bidding (#)	2
Avg. Bids Submitted (#)	6
Volume to Small Businesses (%)	94%
Volume to Small Businesses ($)	$5,135,178
Avg PALT	15

NEW ACTIVITY

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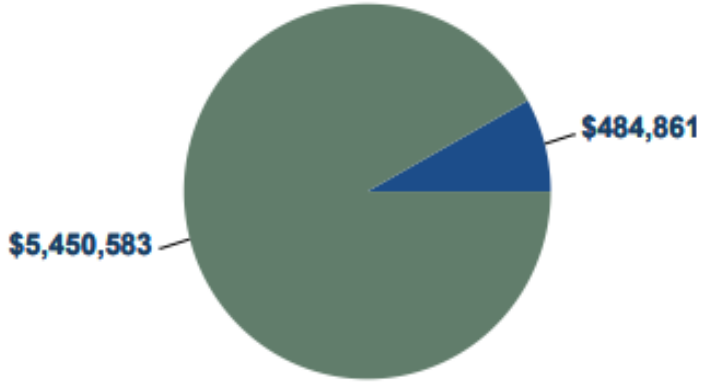
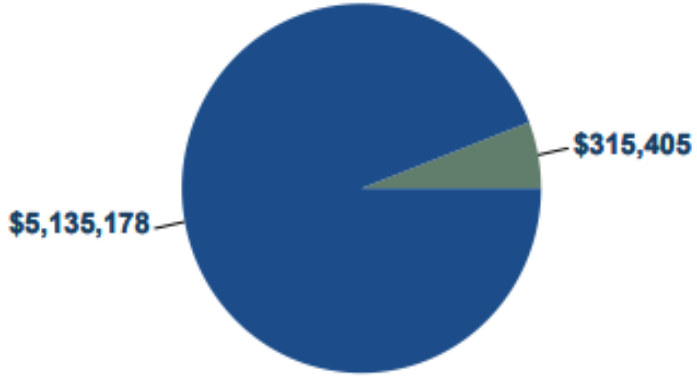
Unison/BPA

SAVINGS ACHIEVED



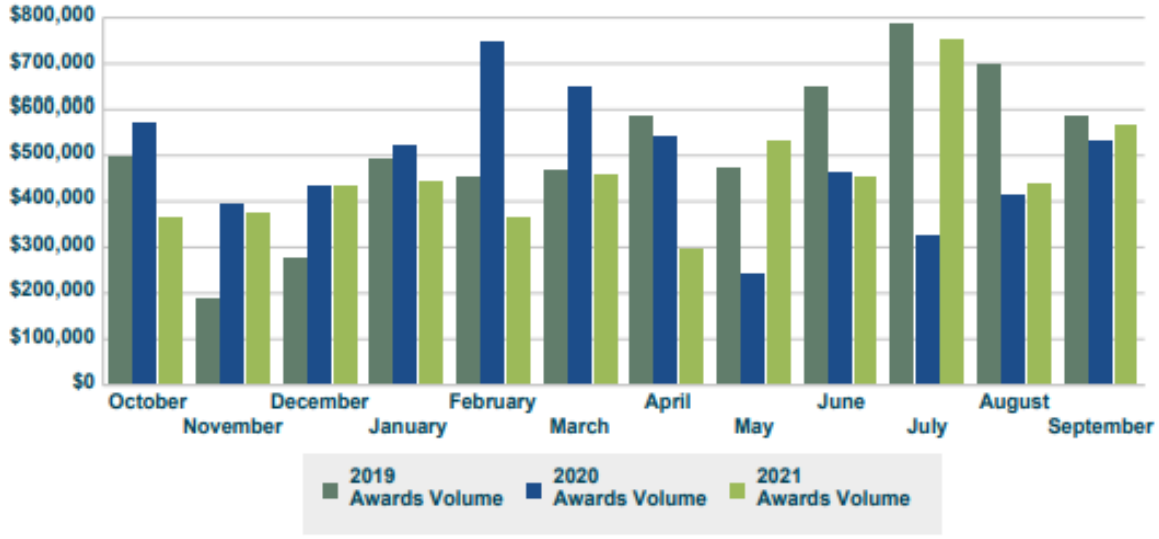
AWARD VOLUME SAVINGS VOLUME

SMALL BUSINESS VOLUME



SB VOLUME OTSB VOLUME

YEAR-OVER-YEAR SPENDING BY MONTH



Fiscal Year	2019	2020	2021
Month	Awards Volume	Awards Volume	Awards Volume
October	$494,464	$571,415	$361,161
November	$188,031	$394,406	$375,357
December	$277,142	$430,755	$430,067
January	$490,442	$519,565	$443,422
February	$450,608	$743,696	$361,950
March	$463,406	$648,674	$455,736
April	$584,787	$542,369	$296,059
May	$472,378	$239,992	$529,383
June	$647,601	$460,685	$450,338
July	$784,010	$324,696	$750,088
August	$699,444	$414,432	$436,028
September	$584,842	$530,952	$560,994
Total	$6,137,157	$5,821,636	$5,450,583

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Unison/BPA- CURRENT COMMODITY AREAS

Has Become PMTs Major Source For Support!

Pre FY-20 Commodities

Industrial Supplies
Metals
Electroplating
Machining Services
Electronics
Welding
Welding Supplies
Testing Services
Machine Repair
Office Furniture
Optical Equipment
Video Equipment
Crane/Forklift Services
Electronic Computer Manufacturing

Last Report: 31 New Companies in FY-20
Associated with 11 new commodities

Cutting Tool/Machine Tool Accessory Mfg (GSA)
Power-Driven Hand Tool Manufacturing (GSA)
Hand Tool Manufacturing (GSA Vendors)
Freight Transportation Arrangement
Plumbing and Heating Equipment & Supply
Office Furniture Move/ Clean and Reconfigure Services
Move/ Clean Spaces and Reconfig. Services
Move Services Only
Computer Software
Computers, Computer Peripheral Equipment
Office Photographic, Photocopy & Microfilm Equipment

New Commodity Areas FY-21

Fiber Optics

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Contracting Business Profile

FY-22	Total	%SB	%LB	%8(A)	Total SB
Infrastructure Material	$2.0M	100%	0%	0%	$2.0M
Program Material	$4.9M	99%	1%	0%	$4.8M
Infrastructure Services/Labor	$9.9M	53%	0%	47%	$9.9M
Program Material/Services Executed	$5.2M	80%	20%	0%	$4.2M
Total	$22.0M		$1.1M	$4.7M	$20.9M

Note: Numbers & Percentages Are Approximate Dollars in Millions and does not include purchases from the Federal Supply System

Bottom Line:

Approx. 95% of all contracting actions are planned to be within our SB contracting portfolio

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Anticipated Future Requirements

60-Ton Chiller

Requirement:

The Prototype & Manufacturing Division Machine Shop is in need of a 60-Ton chiller that can be placed outside and serve multiple heat treating systems across a building complex. The purchase will include freight to our facilities, installation of the system, and training.

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Anticipated Future Requirements

Breathable Air Compressor

Requirement Description:

The Prototype & Manufacturing Division Shop is in need of a compressor that can withstand harsh environmental conditions that include lots of particulates. This compressor is to be used to create a breathable air supply for a small blast booth. The purchase will include freight to our facilities, installation of the system, and training.

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Anticipated Future Requirements

Grinder

Requirement Description:

The Prototype & Manufacturing Division Fabrication Shop is in need of a machine capable of removing all burrs in one pass to create schedule and cost efficiencies. This machine should have multi-head configurations as well as a breaking/surface conditioning brush. This should be a dry operating machine with a feed speed range from 10-45 fpm.

Anticipated Future Requirements

Vertical Storage Unit

Requirement Description:

The Prototype & Manufacturing Division, Visual Landing Aids Shop is in need of smart storage to keep track of parts/components for new IFLOLS Depot workspace in H1

- **Room is limited to 15’ of height**

The purchase will include freight to our facilities, installation, and training.

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Anticipated Future Requirements

Nitrogen Generation System

Requirement Description:

The Prototype & Manufacturing Division Metal Fabrication Shop is in need of a new nitrogen generation system that can produce 2500-5000 cfm. The purchase will include freight to our facilities, installation of the system, and training.

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Anticipated Future Requirements

Small Enclosed CNC Lathe

Requirement Description:

The Prototype & Manufacturing Division Machine Shop is in need of a new small enclosed CNC lathe. The purchase will include freight to our facilities, installation of the system, and training.

Anticipated Future Requirements

Robotic Welder Fume Extraction

Requirement Description:

- **Needed by safety to remove harmful welding fumes in our Robotic Welder area.**
- **Plan is to put crane with a fume hood attached that can swing over both bays and out of the way when loading**
- **Price will include delivery and installation at the facility.**

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Anticipated Future Requirements

Small Abrasive Blast Room and Recovery System

Requirement Description:

The Prototype & Manufacturing Division is in need of a new small abrasive blast room and recovery system that will utilize 60/80 aluminum oxide as the blast media The purchase will include freight to our facilities, installation of the system, and training.

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