White Paper Topic

Agile Modular Secure Facility (SCIF) Fabrication

Innovative or Unique Contract Acquisition or Construction Methods

Example of a Pre-Fabricated Modular Panelized Sensitive Compartmented Information Facility (SCIF) Constructed Inside an Existing Hangar Facility

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BLUF

- Air Force is Adapting to Meet Great Power Competition
  - Mission Demands Creating Urgent Need for Additional SCI and SAP Access
- Flexible Modular Approach to Building Secure Facilities
  - Modular Panel Architecture – Can be Assembled/ Moved /Re-Assembled
  - Expandable and Reconfigurable to Meet Evolving User Needs
  - Flat Panels Easily Transported (OCONUS Ops)
- Pre-Fabricated in Factory Controlled Environment
  - Factory Tested not subject to Traditional Onsite Construction Variables
  - Acoustic Material and RF Shielding Applied in Proven Repeatable Processes
  - Guaranteed 1st Time ICD 705 Accreditation
- Acquisition Strategy Options
  - Dismountable and Subject to O&M Equipment (3400) Funding
  - GSA Schedule 70 Blanket Purchase Agreement; FEDSIM OASIS IDIQ
  - Leasing
- Standardized Modular SCIF Layout and Design vs Unique Design Build
  - Commonality Replicated Across Several Basing Locations

Example Modular SCIF Concept

AF Installation of the Future

Common Relocatable SCIF

OTA Rapid Prototype
- Standard F-35 Maintenance SAPF
- Agile Combat Employment
- Deployable to OCONUS
- Common Layout and Comms
  Reduced Training
  Volume Purchase Savings
- 804 Authority for Rapid Fielding
What is a SCIF/SAPF?

- Facility to Store and Process Sensitive Compartmented Information (SCI) and Special Access Program (SAP) Information. SCI/SAP can be at any Security Level
- All SCI must be handled within formal access control systems established by the DNI. DNI has published Intelligence Community Directive (ICD) 705 directing the construction guidelines for SCIFs
- Acoustic, RF and TEMPEST mitigation must be installed and tested in accordance with ICD 705 to prevent foreign surveillance. SCIFs must pass a formal accreditation process prior to occupancy

Air Force SCI/SAP Mission Demand

- 5th Generation Aircraft Operations and Maintenance
- AF Cyber Operations
- Air Force AOC Weapon Systems
- Intelligence Support for Multi-Domain Operations (SPACE Command)

Tyndall SCIF Needs

- 53rd WEG – Combat Archer 5th Gen Aircraft Participants
- F-35 Beddown Ops and Maintenance SCIF/SAPF
- 601st/AFNORTH Air Operations Center
- MQ-9 Reaper Intelligence Support

Panelized SCIF to Support POTUS OCONUS Travel
True Cost of Secure Facility Construction

Modular SCIF Panel Build

- Relocatable Structure
  - O&M Funding Rapid Fielding
- Factory Built and Inspected
  - Guaranteed Accreditation
  - Rapid Assembly of Pre-Fab Components
  - Proven Standard Designs
- Expandable Structure
- Temporary SCIF
- **Fastest time to Accreditation**

GOAL: Fully Accredited Modular SCIF/SAPF Delivered and Assembled in 8 Weeks After Award

Traditional SCIF Design Build

- Permanent Structure
  - MILCON Funded Protracted Acquisition
- On-Site Construction
  - Installation Flaws Can Delay Accreditation
  - Fabrication on site; Dependent Upon Skilled Installers and External Variables (Weather)
  - New Design Build
- Demolition and Expensive Renovation
- No

End User Costs can be Much Higher Defined by **Time to Accreditation** (Idle Cleared Personnel, Operational Readiness and Mission Success)
Why Panelized?

All the Advantages of Other Modular Fabrication (e.g. Containers) and.....

- Can be Assembled in Multiple Locations
  - Freestanding
  - Inside Limited Access Space (Hangars)
  - Secure Space Inside Existing Facility (Remodel)
- Unassembled Panels Stack Flat – Easily Transported
  - Austere Locations
  - International Customs and Logistics
- Interchangeable Panels Can be Reconfigured
  - Rooms Can be Rearranged for Security Levels
  - Facility Can be Dismounted and Reassembled
- Design Elements for Customized Interior
• Highly Automated Agile Manufacturing Process Focus
  ✓ Factory Quality Controlled Environment
  ✓ Inventory Management for Streamlined Deliveries
  ✓ Fast Changeovers for Customized Panels
  ✓ Standard Panels and Doors exceed ICD 705 STC Specifications

• Interlocking Steel Welded Structural Panels and Joiners
  ✓ ¼ Inch Steel Bullet/Blast/Wind Resistant Panels – 4 Inches Thick
  ✓ Panel System Structural Integrity Supports Multi-Story Installs
  ✓ Easily Transported and Assembled – Remodels or Standalone

• Executive Appointments
  ✓ Custom Details for Executive SCIFs
  ✓ Acoustic Windows, Fabric Paneling, Chair Rails, Wood Veneer and Laminate Flooring
Agile Manufacturing of Engineered Pre-Fabricated Designs

The Agile Process

• Automated Manufacturing with Statistical Process Control
• Acoustic and RF Design Margins Exceeding ICD 705 Specifications
• Small Batch Process Flow and Changeovers for Customized Orders
• Inventory Management and Expedited Materials Handling
• Trained and Highly Skilled Workforce
• Library of SCIF Compliant Modular Door and Panel Designs

Manufacturing Door line - hung and adjusted before shipment
Agile Manufacturing Process Capabilities

Highly Automated Factories
✓ Controlled Environment
✓ Quality Control – Inspection and Test
✓ Fast Changeovers – Custom Designs
✓ Scalable Workforce to Meet Demand

Automated Process Control
➢ In-House Powder Coating Line
➢ Multiple Head Spot Welders
➢ Amada Punch Presses
➢ Press Brakes
➢ Shears
Summary

- **Standard Pre-Fab Modular SCIF Designs**
  - SCIF Design and Layout Replicated for Commonality Across Multiple Locations
  - Volume Cost Savings

- **Turn-Key SCIF/SAPF Systems**
  - Strategic Industry Partnerships with Integrators and Facility Management Companies
  - Cleared Installers, Logistics, Comms/IT, HVAC

- **First-Time Accreditation**
  - Standard Product Design Margins Exceed ICD 705 Requirements
  - Rapid Build and Operational Deployment with Subsequent Move Recertification

- **Adaptive Basing – Agile Combat Employment**
  - Large Fixed Installations/Facilities are Vulnerable Fighting Near Peer Adversaries
  - Modular Panelized SCIF/SAPF Allows for Rapid Mobility (Install/Teardown)
  - Eliminates the Need for T-SCIF

- **Flexible Acquisition – Rapid Fielding**
  - Modular SCIFs/SAPFs Can be Dismounted and Qualify for O&M Procurement
  - Rapid Prototyping with OTAs
  - GSA Blanket Purchase Agreements

Panel Built SCIFs can be Transported as Complete Units