



Program Executive Office Command, Control, Communications, Computers, and Intelligence (PEO C4I) SPAWAR 2.0/PMW 750/PMW 760

C4I Testing, Integration, and Installation (CTII) Industry Day

10 December 2013

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SPAWAR 2.1B9

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*Information Dominance;
Anytime, Anywhere...*





CTII Industry Day Agenda



- 0830 – 0900 Contractor Check-in**
- 0900 – 0915 Welcome & Rules of the Road**
Acquisition Strategy/Draft RFP
- 0915 – 1015 PEO C4I/PMW Overview**
Scope
Test and Integration Facility (TIF)
- 1015 – 1045 BREAK (Government caucus to review questions)**
- 1045 – 1115 Question and Answer Session**
- 1115 – 1200 LUNCH**
- 1200 – 1700 TIF Tours**



Welcome



- Welcome
- Housekeeping
 - Restrooms
 - Breaks
 - Eating areas
 - Smoking areas
 - Lunch suggestions



Rules of the Road



- Questions are encouraged.
 - Submit all solicitation-related questions in writing before the Q&A session to ensure an accurate and non-attributable record.
 - Verbal questions may not be answered during the Q&A sessions, but will be recorded for response on the public site (see below).
- All questions and answers (along with the slides) will be posted on the SPAWAR E-Commerce website (<https://e-commerce.spawar.navy.mil>)
- Any changes to the draft RFP will be reflected in the final RFP when issued.
- No side bar discussions with Government Representatives



Contract Strategy



- Maximize Competition
- Indefinite Delivery/Indefinite Quantity (IDIQ) Contract
 - Cost Plus Fixed Fee (CPFF) Task Orders
 - Firm Fixed Price (FFP) Task Orders
 - Single Award
- Total Duration – 5 Years
 - 5 year ordering period
 - No option years
- Strategy satisfies the requirements and overarching concepts
 - Provide Best Value approach
- Anticipated RFP issue date – January 6, 2014
- Anticipated Proposal due date – February 5, 2014
- Anticipated award date – November 5, 2014



Places of Performance/ Mandatory RFP Requirement



- The effort will be performed at the following locations:
 - Charleston, SC
 - Newport News/Norfolk, VA
 - Pascagoula, MS
 - San Diego, CA
 - Mobile, AL
- Approximately 25% of the effort will be performed at the Government (SSC-LANT) TIF in Charleston, SC
- Mandatory RFP Requirement: Contractor shall establish and maintain office space and production space for fabrication, testing, and material storage within 25 miles of the TIF facility located at Joint Base Charleston



Evaluation Factors



- Factor 1: Technical Approach
 - Subfactor 1.1: Systems Engineering
 - Subfactor 1.2: Production and Integration
 - Subfactor 1.3: Sample Technical Task
 - Subfactor 1.4: Data Rights
- Factor 2: Management Approach
 - Subfactor 2.1: Program Management/Execution Plan
 - Subfactor 2.2: Sample Management Task
 - Subfactor 2.3: Key Personnel
 - Subfactor 2.4: Small Business Utilization
- Factor 3: Past Performance
- Factor 4: Cost/Price

Government will award based on Best Value



PEO C4I Background



- Program Executive Office for Command, Control, Communications, Computers, and Intelligence (PEO C4I), PMW 750 (Carrier and Air Integration), and PMW 760 (Ship Integration) are responsible for installation of integrated C4I capabilities aboard new construction ships, to include Refueling Complex Overhaul (RCOH) ships.
- Integrated C4I capabilities provide robust communications for operations, maritime, and flight safety.
 - Network capabilities
 - Communications
 - Command and Control
 - Intelligence



PEO C4I Background



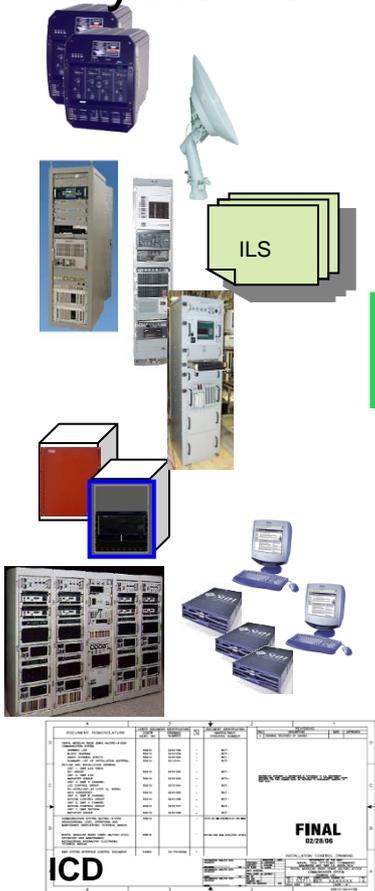
- Supports various military shipbuilding programs
 - Aircraft Carriers (Ford Class and RCOH)
 - Large Deck Amphibious Ships (LHA)
 - Amphibious Ships (LPD, LX(R))
 - Special mission ships (JHSV)
 - Auxiliary (T-AOX)



PEO C4I Design Integration Process



Acquisition Systems



Platform C4I Baseline

GGI, GGE Delivery

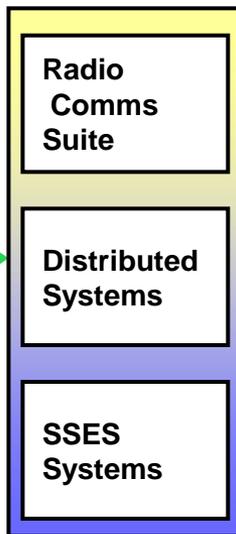
TIF Schedule

Design / Integration Engineering

ILS Collection

Non-Pushed Items

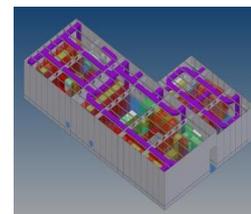
TIF



Integrated GFI, GFE Packages

ORD / ICD

Shipyard

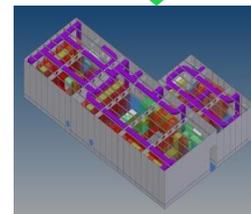


AWP, Mod Plan

Ship Schedule A, C

RMMCO

RCOH



Ship Schedule A, C

New Construction



AWP: Availability Work Package; **GFI:** Government Furnished Information; **GFE:** Government Furnished Equipment; **GGI:** Government-to-Government Information; **GGE:** Government-to-Government Equipment; **ICD:** Initial Capabilities Document; **ILS:** Integrated Logistics Support; **ORD:** Operational Requirements Document; **RCOH:** Refueling and Complex Overhaul; **RMMCO:** Regional Maintenance & Modernization Coordination Office; **SSES:** Ship Signal Exploitation Space



Performance Objectives and Scope



- Expectations
 - Learning curve (follow hull)
 - Cross platform efficiencies (commonality)
 - Reduce total costs to the Government
- Phases of Work
 - Requirements
 - Design Engineering
 - TIF
 - Shipboard Installation
 - Post Delivery Support
- Types of Work
 - Design/Systems Engineering
 - Production/Integration
 - Installation/Testing
 - Configuration Management/ Integrated Logistics Support



Design/Systems Engineering



- Design Requirements (e.g., Arrangement, HVAC/Power, Cable)
- Impact Assessments
- Design Decision Matrix
- C4I GFI/GGI
 - Provided to Shipyard/Planning Yard
- TIF Design
- Bills of Material
- Engineering Change Proposals
- Human Systems Integration
- Systems Engineering (management, design, and specifications management)
- SoS Work Breakdown Structure
- Specifications Tree
- Functional Interface Diagram
- Specialty Engineering Studies
- Design Budget Execution Plan (e.g., RCOH)



Production/Integration



- Platform TIF Integration
- Production Management
- Production and Fabrication
 - Procure/fabricate cabling, equipment, racks, ancillary hardware, etc.
 - Build integrated assemblies, assemble components inside equipment cabinets, build test fixtures, etc.
- TIF Completion and Pack-out
- Platform Shipboard Integration



Installation/Testing



- Testing
 - Test Plan and Procedures
 - TIF Testing
 - Shipboard Testing
- Installation
 - Installation Plan
 - Equipment Installation
 - Space Turnover Support
 - Trials Support
- Post- Sea Trials Support



CM/ILS



- Baselines
 - Non-POR equipment
 - As-Built drawings
- Configuration Management
 - Drawings
 - WBS
 - Specifications
 - Technical Data Packages
 - GFI/GFE
- C4I Logistics Packages
 - Certifications



Platform Forecast



Legend
Requirements Phase
Design Phase
TIF Phase
Shipboard Phase
Post Delivery Phase

Schedules are subject to change

	FY15	FY16	FY17	FY18	FY19
CVN 72			Design Phase		
CVN 73		Design Phase	Design Phase	Design Phase	Design Phase
CVN 79	Design Phase				
CVN 80				Design Phase	Design Phase
LHA 7	Design Phase				
LHA 8		Design Phase	Design Phase	Design Phase	Design Phase
JHSV 5	Design Phase				
JHSV 6		Design Phase			
JHSV 7		Design Phase			
JHSV 8	Design Phase	Design Phase	Design Phase		
JHSV 9	Design Phase	Design Phase	Design Phase	Design Phase	
JHSV 10		Design Phase	Design Phase	Design Phase	
LPD 26		Design Phase			
LPD 27		Design Phase	Design Phase	Design Phase	
T-AOX				Design Phase	Design Phase
LX(R)			Design Phase	Design Phase	Design Phase



Government TIF



- Located at SPAWAR Systems Center–Atlantic (SSC-LANT) in Charleston, SC
- Land-based validation of design
 - Verifies interoperability of System of Systems
 - Production and validation period for non-2Z equipment and intra-compartment cables
 - Land-based environment conducive to production
 - Allows for change management within Government controls (pre-GFE delivery)
 - Enables technology insertion
 - Avoid builder delays
- Risk Mitigation
 - Integration period early in the ship construction cycle
- Test Procedure Development
 - Allows for Industrial Test procedure development and validation
 - Allows for mission-based test execution



Government TIF



- Approx. 40,000 sq. feet
- Interior is reconfigurable
 - Capable of housing 8 different hulls of equipment simultaneously
- False deck/plenum HVAC
- Material Management Area
- Operated at Open Storage Secret Security Level
- Permanent assets include antenna for HF, VHF, UHF, UHF SATCOM
- Hosting capability for ship set equipment
 - Two antenna platforms for SHF, EHF, other
- 100 Mbs network connection to Defense Research and Engineering Network (DREN)
 - Upgrade in progress to 10 Gbs with SIPR connectivity
- No chill water required to date



Government TIF



- Spaces Typically Emulated in TIF
 - Main communications center/Command and Control System Center (CCSC)
 - Transmitter/receiver rooms
 - SSES spaces
- Elements of the TIF
 - Reconfigurable bulkheads
 - Reconfigurable wireways
 - Typically intra-compartment cables go to the ship
 - Power
 - Can emulate ship's power if required (DELTA-WYE configuration for CVN 71)
 - Permanent TIF Power Panels
 - Wireways/Arrangements built IAW GFI
 - Equipment Configuration updates supported
 - Firmware/hardware/software updates absorbed if possible
 - Only mock up required obstructions
 - Evaluated by engineering team using 3D design
 - Sized to accommodate platform space arrangements
 - Build Packages developed specific to TIF production/integration



TIF Tours



- CVN 72
- JHSV 5/6
- Warehouse and Inventory Management

TIF Tour Schedule

1200 – 1245: TIF Tour 1

1300 – 1345: TIF Tour 2

1400 – 1445: TIF Tour 3

1500 – 1545: TIF Tour 4



Directions from Building 3112 to Building 1648 (TIF)

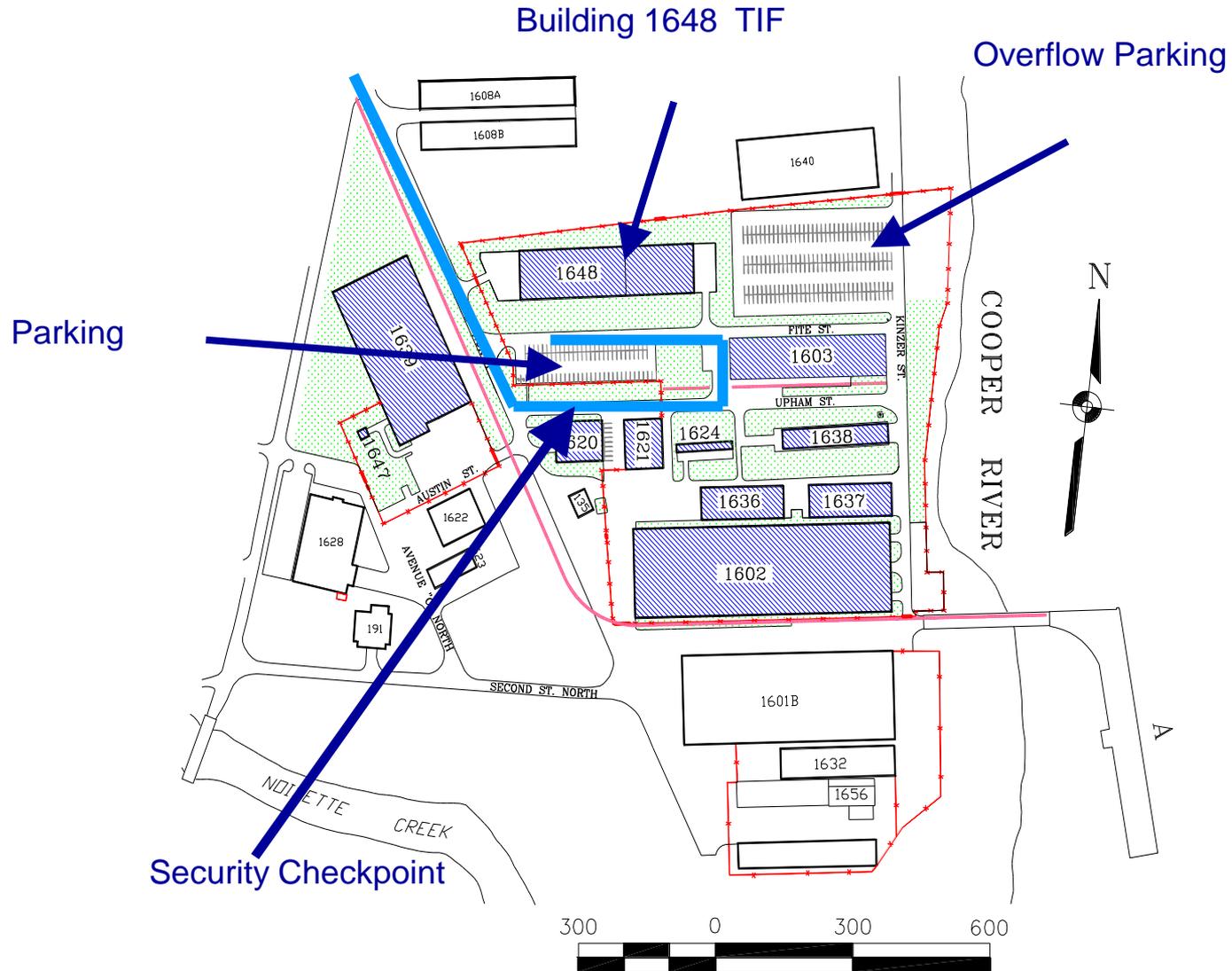


- Leave Building 3112 and turn left onto Tank Road
- Exit through Gate 4 and turn left onto Remount Road
- Turn right at the flashing light onto Virginia Avenue
- Follow Virginia Avenue for approximately 1.5 miles
- Turn left onto Avenue B North
- Go straight at the stop sign
- Once past the chain link fence, turn left towards the security checkpoint
- Take the first left past the checkpoint, and Building 1648 will be in front of you on the left

(see map next slide)



Map





Break



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Question and Answer Session

