

SOURCE SELECTION SENSITIVE INFORMATION – SEE FAR 2.101 & 3.104

**PROGRAM EXECUTIVE OFFICE (PEO)
COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS &
INTELLIGENCE (C4I), CARRIER AND AIR INTEGRATION PROGRAM
OFFICE, PMW 750, TACTICAL MOBILE (TACMOBILE) PROGRAM**

PERSON-PORTABLE COMMON DATA LINK

31 May 2016



STATEMENT OF WORK

***** Source Selection Information – See FAR 2.101 & 3.104 *****

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SOURCE SELECTION SENSITIVE INFORMATION – SEE FAR 2.101 & 3.104**1.0 BACKGROUND**

Space and Naval Warfare Systems Command (SPAWAR) PMW 750 is responsible for providing integrated Command, Control, Communications, Computers and Intelligence, Surveillance, and Reconnaissance (C4ISR) capabilities in support of Navy aircraft. The PMW 750 Navy Tactical Mobile (TacMobile) Program provides expeditionary ground station support for Maritime Patrol and Reconnaissance Aircraft (MPRA) to include the legacy P-3C and the P-8A aircraft. The TacMobile Program is a multi-year Acquisition Category (ACAT) III program providing system and equipment upgrades to support maritime commanders with the capability to plan, direct, and control the tactical operations of joint and naval expeditionary forces and other assigned units within their respective areas of operations. One subsystem within the TacMobile system of systems is a Person-portable Common Data Link (PCDL) that provides a secure data connection with the MPRA for the transmission of Intelligence, Surveillance, and Reconnaissance (ISR) data to include Full-Motion Video (FMV).

2.0 SCOPE

This Statement of Work (SOW) is to procure, produce, assemble, test, document and deliver PCDL systems and spares suites. The contractor shall provide engineering services to include engineering services, training material development and provide training sessions for Fleet personnel in the operation and maintenance of the PCDL systems.

3.0 APPLICABLE DOCUMENTS

Table 1 provides a list of reference information that may be applied to the tasks described in this SOW. This list is not all-inclusive. The list below contains the current versions of applicable reference documents as of 09 May, 2016. The contractor shall utilize the latest version of applicable reference documents in the execution of this contract.

Table 1: Applicable Reference Documents

Document	Title
BE-CDL	Performance Specification for the Bandwidth Efficient-Common Data Link (BE-CDL) Waveform, Specification Number 60038368 Rev [B] Draft, dated 23 January 2015.
Std-CDL H-2	Performance Specification for the Standard Common Data Link (Std-CDL) Waveform, Specification Number 7681990, Revision H-2, dated December 2014.
DD Form 1494	Application for Equipment Frequency Allocation, Version 1, 2 October 2009
CJCSI 6212.01F	Chairman Joint Chiefs of Staff Instruction, Net Ready Key Performance Parameter (NR-KPP), 21 March 2012
CNSSAM TEMPEST/1-13	CNSSAM TEMPEST/1-13, RED/BLACK Installation Guidance, 17 January 2014
NSTISSAM TEMPEST/1-92	Compromising Emanations Laboratory Test Requirements, Electromagnetics, NSTISSAM TEMPEST/1-92, 15 December 1992

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Document	Title
DoDI 8500.1	Cybersecurity, 14 March 2014
DoDI 8510.01	Risk Management Framework (RMF) for DoD Information Technology (IT), 12 March 2014
IA PUB-5239-31	Information Assurance (IA) Shipboard RED/BLACK Installation Publication, July 2001
MIL-HDBK-2036	Preparation of Electronic Equipment Specifications, 1 November 1999
SD-15	Guide for Performance Specifications, Defense Standardization Program, dated 24 August 2009
MIL-STD-810G	DoD Test Method Standard: Environmental Engineering Considerations and Laboratory Tests, 31 October 2008
MIL-STD-461F	Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems & Equipment, 10 December 2007.
MIL-STD-464C	DoD Interface Standard for Electromagnetic Environmental Effects Requirements for Systems, 01 December 2010.
MIL-STD-1472G	DoD Design Criteria Standard; Human Engineering, 11 January 2012.
MIL-STD-648	Design Guidelines for Specialized Shipping Containers, 01 April 1994.
OPNAVInst 5100.23G	Navy Safety And Occupational Health Program Manual, 30 December 2005
NAVSEA OP 3565/NAVAIR 16-1-529/NAVELEX 0967-LP-624-6010, Volume I,	Technical Manual, Electromagnetic Radiation Hazards, (Hazards to Personnel, Fuel and Other Flammable Material) and Technical Manual, Electromagnetic Radiation Hazards (Hazards to Ordnance).
MIL-HDBK-419A	Grounding, Bonding, And Shielding For Electronic Equipments And Facilities Volume II, 29 December 1987
MIL-STD-188-124B	Grounding, Bonding And Shielding for Common Long Haul/Tactical Communication Systems Including Ground Based Communications - Electronics Facilities and Equipments, 1 February 1992
MIL-HDBK-310	Global Climatic Data For Developing Military Products, 23 June 1997.

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Document	Title
Cryptographic Core Embedment Manual	Cryptographic Core Embedment Manual, Rev XE, 75AF00002, 30 April 2015
Crypto Core Serial Management and Status Interface Specification	Cryptographic Core Serial Management and Status Interface Specification, Rev D, 55AB00006, 30 April 2015
Cryptographic Core Interface Specification	Cryptographic Core Interface Specification, Rev C, 75AF00001, 30 April 2015
IEEE 802.3	IEEE Standard for Ethernet, 28 December 2012
MPEG-2	Motion Picture Expert Group – A standard, a set of standards, a (ISO13818-2) technology, a set of technologies, a procedure, a process, and an institution for digital coding of moving images.
C95.1a-2010	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz Amendment 1
SYSTEMS ENGINEERING HANDBOOK	A Guide for System Life Cycle Processes and Activities, INCOSE-TP-2003-002-03.2.2, October 2011
NAVEDTRA 130B	Task Based Curriculum Development Manual, Volume I, Developers Guide, Volume I, September 2009

4.0 GENERAL REQUIREMENTS

The contractor shall carry out all manufacturing and testing efforts necessary to produce the PCDL system. The baseline functionality for the PCDL system shall be in accordance with the system performance specification. The CDL system shall be provided, to the greatest extent possible, by utilizing Commercial/ Government off the Shelf (COTS/GOTS) Non Developmental Items (NDI) for hardware/software, down to the Line Replaceable Unit (LRU) level.

5.0 PROJECT MANAGEMENT

The Contractor shall utilize a project planning and control system to coordinate and direct project management activities. The system shall provide the capabilities to plan, forecast schedules, determine the actual status and indicate technical achievement. The Contractor shall provide monthly progress reports to document these activities. (CDRL A014)

6.0 CONTRACTOR/GOVERNMENT MEETINGS

- 1) Program Management Reviews (PMRs) between the contractor and the Government shall be conducted quarterly. The first PMR shall be conducted at the contractor's facility no later than 30 days after contract award and shall serve as the Post Award Conference. At a minimum, at each PMR the contractor shall provide a cost, schedule, and performance status update, with a read-ahead to the Government five business days prior. (CDRLs A011, A014)
- 2) Integrated Product Team (IPT) meetings between the contractor and the Government shall occur monthly for the first year of the contract and semi-annually during option years. The Government shall chair the

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IPT. All IPT meetings may be conducted at the contractor's facility unless otherwise specified by the Government. IPT meetings may be conducted as teleconferences or Video-Teleconferences (VTCs) if directed by the Government. (CDRLs A011, A010)

- 3) Action items resulting from contractor/Government PMRs and IPT meetings will be considered complete upon approval by the Government. The Contractor shall generate and distribute minutes of all meetings to all attendees no later than 10 business days after completion of the meeting.

7.0 PRODUCTION

- 1) The contractor shall provide PCDL systems and spares that conform to Government performance specifications contained in the TacMobile System Performance Specification (SPS) for Person-portable Common Data Link document.
- 2) The contractor shall provide a copy of all software on Digital Video Disc (DVD) and all software licenses with each system. (CDRL A007)
- 3) A functional baseline shall be established by the Government, at the time of contract award based on the performance specification. The product baseline shall be established by the successful completion of Functional and Physical Configuration Audits (FCA/PCA) performed on the documentation (specifications, manuals, Level II drawings, and test reports). The product baseline shall be subject to review by the Government at any time. A PCA shall be completed within 3 months of identification of Final baseline for all equipment(s). Final baseline shall be established after all deficiencies identified during First Article Testing have been corrected or waivers thereto obtained. (CDRL A010)

8.0 FACTORY ACCEPTANCE TESTING (FAT)

Prior to field-testing the contractor shall successfully test all PCDL systems at the contractor's own facility. The designated Contracting Officer's Representative (COR) and Technical Point of Contract (TPOC) shall be notified at least two weeks prior to conducting FAT to provide Government personnel the opportunity to have a representative witness the test. The contractor shall supply a copy of the FAT Plan to the Government for approval prior to the test. For FAT to be considered successful, the PCDL system must meet the performance specifications contained in the current TacMobile SPS. A FAT report including discrepancies shall be provided to the Government. (CDRLs A008, A009, A012, A015)

9.0 DOCUMENTATION SUPPORT

- 1) Identification and Markings - All Line Replaceable Units (LRU) shall be identified using contractor provided part numbers and serial numbers.
- 2) Documentation support to include:
 - a) The contractor shall provide the Government a Software Version Description (SVD) of the associated PCDL system software. (CDRL A002)
 - b) The contractor shall provide an updated Product Specification, which documents the performance, function, environmental conditions and qualifications of the equipment. (CDRL A001)
 - c) The contractor shall provide an Interface Design Description (IDD) in Government format, which defines the interfaces within major assemblies and subassemblies of the system. The IDD shall also specify requirements for physical, electrical, and functional interfaces. (CDRL A003)

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- d) The contractor shall provide system drawings in accordance with the Shore Installation Handbook in electronic formats including CAD and Adobe pdf. (CDRL A013)
- e) The contractor shall provide updated Operator and Maintenance (O&M) documentation, in Government format, for each PCDL system in both hard copy and soft copy formats. The final product shall be in a linked PDF format that can be exported as an Adobe Acrobat PDF file(s) and support delivery to end users via Automated Technical Information System (ATIS) compatible CD-ROMs. (CDRL A004)
- f) The contractor shall provide updated Instructor and Student Training documentation. The final product shall be in accordance with NAVEDTRA 130B. (CDRL A005)
- g) The contractor shall provide a Bill of Material (BOM) (CDRL A006), in MS Excel format, to the LRU in support of Integrated Logistics Support:
 - i) Part Number
 - ii) Next Higher Assembly
 - iii) Part Quantity
 - iv) Part Number Commercial And Government Entity (CAGE) Code
 - v) Part Manufacturer
 - vi) Nomenclature
 - vii) Vendor Part Number
 - viii) Vendor Part Number CAGE Code
 - ix) Vendor Name

10.0 ENGINEERING SERVICES/SUPPORT

The contractor shall provide engineering services to support the integration and fielding of TacMobile PCDL systems, to include but not limited to the following: production support, field testing, training documentation, training support, and logistics support. (CDRL A004, A005, A008, A009, A010, A011)

11.0 CDRL DELIVERABLES

- A001 - Product Specification
- A002 - Software Version Description
- A003 - Interface Design Description (IDD)
- A004 - Operator and Maintenance Documentation
- A005 - Instructor and Student Training Documentation
- A006 - Bill of Material (BOM)
- A007 - Software and Licenses
- A008 - Test Plan
- A009 - Test Report
- A010 - Technical Report
- A011 - Trip Report
- A012 - Factory Test Procedures
- A013 - System Drawings
- A014 - Contractor's Progress, Status and Management Report
- A015 - First Article Test (FAT) Plan

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12.0 TRAVEL

Work under this SOW may require travel to TacMobile operational, lab and training facilities at the following locations: Charleston, South Carolina; Patuxent River, Maryland; Jacksonville, Florida; Whidbey Island, Washington. Specific locations in the future may change because of operational or training requirements.

13.0 SECURITY

The nature of this task requires access up to Secret level. The contractor will be required to attend meetings, as directed by the Government, up to Secret level.

All work shall be performed IAW Department of Defense (DoD) and Navy Operations Security (OPSEC) requirements and IAW the OPSEC attachment to the DD-254.

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ACAT	Acquisition Category
AIM	Authoring Instructional Materials
BE-CDL	Bandwidth Efficient-Common Data Link
BOM	Bill of Material
CAGE	Commercial And Government Entity
C4I	Command, Control, Communications, Computers and Intelligence
C4ISR	Command, Control, Communications, Computers and Intelligence, Surveillance, and Reconnaissance
CDL	Common Data Link
CDRL	Contract Data Requirements List
COR	Contracting Officer's Representative
DoD	Department of Defense
DoDI	Department of Defense Instruction
DVD	Digital Video Disc
EOL	End-of-Life
FAT	Factory Acceptance Test
FIT	Fleet Introductory Training
FMV	Full Motion Video
FTP	Factory Test Plan
FY	Fiscal Year
IA	Information Assurance
IAW	In Accordance With
IDD	Interface Design Description
IEEE	Institute of Electrical and Electronics Engineers
I-Level	Intermediate Level
LRU	Line Replaceable Unit
MIL-STD	Military Standard
MPEG	Motion Picture Expert Group
MPRA	Maritime Patrol and Reconnaissance Aircraft
NR-KPP	Net Ready Key Performance Parameter
O&M	Operation and Maintenance
OEM	Original Equipment Manufacturer
OPSEC	Operations Security
PCDL	Person-portable Common Data Link
PEO	Program Executive Office
RMF	Risk Management Framework
SOVT	System Operational Verification and Test
SOW	Statement of Work
SPAWAR	Space and Naval Warfare Systems Command
SPAWARSYSCEN	Space and Naval Warfare Systems Center
SPAWARINST	SPAWAR Instruction
SPEG	SOVT Preparation and Execution Guide
Std-CDL	Standard Common Data Link
SPS	System Performance Specification

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SVD	Software Version Description
TacMobile	Navy Tactical Mobile
TEMPEST	Transient Electromagnetic Pulse Emanation Standard
TPOC	Technical Point Of Contact