



DEPARTMENT OF THE NAVY

NAVAL SURFACE WARFARE CENTER

DAHLGREN DIVISION

6149 WELLS ROAD, SUITE 203

DAHLGREN, VIRGINIA 22448-5117

IN REPLY REFER TO

4200

DL 13000

CXS12-11

N00178-11-R-2005

27 July 2011

JUSTIFICATION AND APPROVAL FOR OTHER THAN FULL AND OPEN COMPETITION

JUSTIFICATION

1. Contracting Activity

The Naval Sea Systems Command, Naval Surface Warfare Center, Dahlgren Division, Contracts Division, Code CXS12.

2. Description of the Action Being Approved

Award of an Indefinite Delivery Requirements type of contract on a sole source basis to SABTECH Industries, Inc. 23231 La Palma Ave, Yorba Linda CA 92887-4768, for highly specialized interface cards, interface analyzers, PowerNet converters systems and emulations systems.

3. Description of Supplies/Services

The proposed procurement is for highly specialized and critical Navy Tactical Data Systems (NTDS) interface boards, adapter module and cables, Sabtech Military Peripherals Replacement Systems Equipment Simulators (SMILES) systems and Military Peripherals Replacement Systems (MPRS) PowerNet NTDS Converters. A listing of these specific items is provided in attachment (1). These items will primarily be used at the Integrated Warfare Systems Lab (IWSL), AEGIS Training and Readiness Center (ATRC), Surface Combat Systems Center (SCSC), Combat Systems Engineering Development Site (CSEDS), Integrated Combat Systems Test Detachment (ICSTD), and numerous other Land Based Test Sites (LBTS) and the AEGIS Fleet. These interface cards, converters and emulations systems are utilized to provide the interface connection between the Commercial Off The Shelf (COTS) simulation/emulation equipment and the AEGIS Warfare Center (AWS) tactical equipment over real-time interfaces. The SMILES and MPRS systems also emulate militarized shipboard systems including OL-267 Operator Control Devices (OCDs), RD-358 tape

drives, UYH-3 Disk Drives, UYH-16 Disk Drives and USH-26 tape drives. The Government's minimum needs have been verified by the certifying technical and requirements personnel.

The estimated value of this acquisition is \$9,950,000. Funding will be provided as follows:

TYPE	FY11	FY012	FY013	FY014	TOTAL
OM&N		\$888,000.00	\$550,000.00	\$640,000.00	\$2,078,000.00
SCN		\$439,000.00	\$340,000.00	\$360,000.00	\$1,139,000.00
OPN		\$19,000.00	\$34,000.00	\$3,800.00	\$56,800.00
RDT&E	\$2,000,000	\$976,000.00	\$1,603,000.00	\$1,950,000.00	\$4,529,000.00
FMS		\$50,000.00	\$48,200.00	\$49,000.00	\$147,200.00
Total		\$4,372,000.00	\$2,575,200.00	\$3,002,800.00	\$9,950,000.00

The Period of Performance will be 3 years from date of award.

4. Statutory Authority Permitting Other Than Full and Open Competition

10 U.S.C. 2304(c)(1), Only one responsible source and no other supplies or services will satisfy agency requirements.

5. Rationale Justifying Use of Cited Statutory Authority

Sabtech is the developer and singular responsible source capable of satisfying these Navy requirements. To date, AEGIS alone has procured in excess of 2000 of these interface boards and converters, and over 90 SMILFS/MPRS systems to support simulation and emulation requirements at the Land Based Test Sites (LBTSS) and the AEGIS Fleet. These interface cards and converters and emulation systems are an integral part of the support tools used by the Navy during the development, testing, training, certification and Lifecycle Support Engineering Activity (LSEA) phases of the weapons system computer programs. The PowerNet Systems allow transparent conversion of NTDS interfaces to Ethernet interfaces, resulting in drastic reductions in shipboard NTDS cable requirements, and ultimately reduced cost and weight.

The interface cards are utilized in various simulation systems including the AEGIS Simulation Test and Training Systems (A-STATS), AEGIS Combat System Interface Simulator (ACSIS), the Next Generation Simulation (NGS) systems, the common connectivity driver (CCE), the Automated Data Collection and Analysis (ADCAS) and the Vertical Launch Simulation Identification Systems (VLS ID Sim) to provide real-time wrap around simulation for the AWS(s) under test. These interface cards are also used in various emulation systems that emulate militarized shipboard equipment including OL-267 Operator Control Devices, RD-358 Tape Drives and USH-26 Tape Drives. The estimated total equipment cost of these systems is \$39,000,000. In addition to this equipment cost, the U.S Navy has spent over \$75,000,000 in the development of the systems. The U.S. Navy has a current total investment of over \$100,000,000 in these systems.

The NGS, CCD, A-STATS, MLST3, ADCAS, ACSIS, SMILES/MPRS systems are real-time systems and therefore have critical timing functions. Like any real-time computer programs, these programs have been designed around unique characteristics of the selected equipment platform and more specifically the interface cards. These characteristics include, but are not limited to: timing functionality, interrupt handling, bus architectures and priority schemes. These characteristics are unique to any particular manufacturer's interface cards. Northrop Grumman is the sole designer and developer and manufacture of the A-STATS system, MLST3, CCD, NGS and ADCAS systems and Lockheed Martin is the sole developer of the ACSIS systems which are essential to the U.S. Navy for use in the computer programs development, verification, testing training, and certifications of command and control systems. Northrop Grumman develops the software for A-STATS, MLST3, CCD and NGS and Lockheed Martin develops the software for ACSIS. Both the Northrop Grumman and Lockheed Martin software products are designed around the Sabtech NTDS interface cards. Sabtech equipment is the only equipment available for this specialized requirement and no one else builds these unique systems.

As additional Navy labs are activated in the LBTSS to support new tactical baselines being delivered to the fleet, additional simulation and emulation systems, are required which utilize the interface cards as well as additional interface analyzers, interconnect systems and SMILES systems. In addition, the

legacy Sabtech interface cards in existing LBTS lab simulation and emulation systems need to be technology refreshed with PCI based Sabtech interface cards. Constant product evolution as tactical systems modifications necessitates corresponding enhancements to data link and sensor simulation equipment. Sabtech is the only source that can satisfy the Navy's schedule for certification testing requirements.

A sole source procurement is required in order to maintain compatibility in the existing Multiple Unit Link Test and Operational Training System/ Multi Link System Test/Training Tool (MULTOTS/MLST3), NGS, ABN/CCD, A-STATS, ACSIS and ADCAS systems; OL-267, RD-358, UYH-3, UYH-16 and USH-26 peripheral emulators; and NIA test analyzers in use at the ACC, ATRC, SCSC, CSEDS, NSCC, Bath and Pascagoula Shipyards, ICSTD and SPAWAR. These systems are used to support all phases of AWS computer program development, testing, LSEA, certification and training. Various other organizations including the Distributed Engineering Plant (DEP), Joint Distributed Engineering Plant (JDEP), Global Command and Control System (GCCS), SSC-San Diego, SSC-Dam Neck and Cooperative Engagement Capability (CEC) also utilize these combat system interface CCAs, test analyzers, interconnect devices and peripheral emulators to support their missions. Sabtech holds restricted rights on major components of the products developed at their own expense. Selection of a different source for these highly specialized products would require significant modification to the existing simulation and emulations programs. This cost would not be recovered by making this a competitive procurement. If a competitive procurement package was released, the U.S Navy computer program development and LSEA efforts would be compromised, weapons systems computer program schedules would be significantly impacted, National security would be a risk and irreparable damage would result.

6. Description of Efforts Made to Solicit Offers from as Many Offerors as Practicable

In accordance with FAR 5.202, the proposed contract was synopsisized on the Federal Business Opportunities (FEDBIZOPPS) website as a sole source requirement on 06 June 2011. No additional sources were identified. No additional market research was conducted because it is not practicable, for the reasons discussed in paragraph 5 above, for any company other than SABTECH Industries to provide the required equipment.

7. Determination of Fair and Reasonable Costs

The Contracting Officer has determined that the anticipated cost to the Government for the equipment covered by the J&A will be fair and reasonable.

8. Actions to Remove Barriers to Competition

For the reasons set forth in Paragraph 5, Dahlgren Contract Division has no plans at this time to compete future contracts for the type of equipment covered by this document. If another potential source emerges, Dahlgren Contract Division will assess whether competition for future requirements is feasible.

CERTIFICATIONS AND APPROVAL

TECHNICAL/REQUIREMENTS CERTIFICATION (FAR 6.303-2(b))

I certify that the facts and representations under my cognizance, which are included in this justification and its supporting data, are complete and accurate to the best of my knowledge and belief.

[Redacted Signature] Name (Print) and Title (Code) Phone No. Date

LEGAL SUFFICIENCY REVIEW (NMCARS 5206.303(90))

I have determined this justification is legally sufficient.

[Redacted Signature] Name (Print) and Title (Code) Phone No. Date

CONTRACTING OFFICER CERTIFICATION (FAR 6.303-2(a)(12))

I certify that this justification is accurate and complete to the best of my knowledge and belief.

[Redacted Signature] Name (Print) and Title (Code) Phone No. Date

APPROVAL BLOCK (FAR 6.304 for Approval Official)

Upon the basis of the above justification, I hereby approve, as Competition Advocate for the Contracting Activity the solicitation of the proposed procurement described herein using other than full and open competition, pursuant to the authority of 48 CFR 2304 (c) (1).

[Redacted Signature] KRISTOFER E. PARKER COMMAND COMP AD 34806 04 AUGUST 2011
Name (Print) and Title (Code) Phone No. Date

Attachment 1

Proposed CLIN#	ITEM NAME	PART#	Warranty Period	Delivery ARO
0001	Swift NTDS Type E PCI Board	SW-04102-00	12 Months	90 Days
0002	Swift NTDS Type D PCI Board	SW-03102-00	12 Months	90 Days
0003	112 Pin to 2 X 80 Box Header Cable Interface Module	TB-11280-00	12 Months	90 Days
0004	Swift NTDS Type A/B/C/H PCI Board	SW-02102-01	12 Months	90 Days
0005	Swift 2 X 80 to UYK-43 92 Pin Adapter Module	AM-SW012-00	12 Months	90 Days
0006	Swift PMC/NTDS Parallel Type A/B/C/H	SP-01102-00	12 Months	90 Days
0007	Swift PMC/NTDS Type E	SP-04102-00	12 Months	90 Days
0008	OWL PCI IRIG-B Timecode Reader/Generator	TW-RB001-00	12 Months	90 Days
0009	Swift 2X80 to UYK-44 79 Pin Adapter Module	AM-SW013-00	12 Months	90 Days
0010	Transit Case	ST-01000-00	1 Month	90 Days
0011	Isolated Passive Tap, NTDS Type A/B/C/H, M81511 Conn	AN-BT511-00	6 Months	90 Days
0012	Isolated Passive Tap, NTDS Type A/B/C/H, M28840 Conn	AN-BT840-00	6 Months	90 Days
0013	Isolated Passive Tap, NTDS Type A/B/C/H, M38999 Conn	AN-BT999-00	6 Months	90 Days
0014	Parallel Tap, Passive, NTDS Type A/B/C/H, M28840 Connector	AN-PT840-00	6 Months	90 Days
0015	Isolated Passive Tap, NTDS Type E, coaxial Connector	AN-ST012-00	6 Months	90 Days
0016	Isolated Passive Tap, NTDS Type D, coaxial Connector	AN-ST013-00	6 Months	90 Days
0017	Universal Breakout Box (Techtronix)	AN-PT000-03	6 Months	90 Days
0018	Parallel Tap, Passive, NTDS Type A/B/C/H, M81511 Connector	AN-PT511-00	6 Months	90 Days
0019	Universal Parallel Tap Box	AN-PT000-00	6 Months	90 Days
0020	Swift Passive Tap Kit	TK-11278-00	12 Months	90 Days
0021	80 Pin Ribbon Cable Set (3 Feet)	CA-SW080-00	12 Months	90 Days
0022	19" Rack Panel 81511 Adapter 6 Modules	SC-AP001-00	12 Months	90 Days
0023	NIA-II Rack Mount 4 CH, 2-E, 2-ABCH	BA-RP022-00	30 Days	120 Days
0024	NIA-II Rack Mount 4-CH, 1-E, 3-ABCH	BA-RP013-00	30 Days	120 Days
0025	NIA-II Rack Mount 3-CH, 1-E, 2-ABCH 1-IRIG	BA-RP012-01	30 Days	120 Days
0026	NIA-II Rack Mount 3 CH, 2-E, 1-ABCH 1-IRIG	BA-RP021-01	30 Days	120 Days
0027	Cable Assy, PMC/cPCI 120P, 20ft	CA-P0303-240	12 Months	90 Days

0028	Cable 34P IDC Ribbon (F) to DB-37 (F) 20ft	CA-50000-240	12 Months	90 Days
0029	Cable 50P IDC Ribbon (F) to DB-50 (F) 20 ft	CA-50001-240	12 Months	90 Days
0030	Transition Box, Hawke/PCI/PMC	AN-TB002-00	12 Months	90 Days
0031	PowerNet Rack Mount 2-CH, 2D Fiber	PX-PS200-00	30 Days	120 Days
0032	PowerNet Rack Mount 2-CH, 2E Fiber	PX-PS020-00	30 Days	120 Days
0033	PowerNet Rack Mount 2-CH, 2ABCH Fiber	PX-PS002-00	30 Days	120 Days
0034	PC/104-Plus Type D	PW-03102-00	12 Months	90 Days
0035	PC/104-Plus Type E	PW-04102-00	12 Months	90 Days
0036	PCI Express (PCIe) Serial Type D	SE-03102-00	12 Months	90 Days
0037	PCI Express (PCIe) Serial Type E	SE-04102-00	12 Months	90 Days
0038	Pelican PMC Carrier Card for PCI Express (PCIe)	PC-EP001-01	12 Months	90 Days
0039	Sparrow-PAK™ ATDS for cPCI (Sparrow) 6U	SC-12102-00	12 Months	90 Days
0040	Sparrowt-PAK™ ATDS for PCI Express (PCIe) (Sparrow)	SE-12102-00	12 Months	90 Days
0041	General Purpose Interface Controller	GP-IC000-01	30 Days	160 Days
0042	PowerNet, 6U VME 5 ROW 2D	PX-PN200-00	30 Days	120 Days
0043	PowerNet, 6U VME 5 ROW 2E	PX-PN020-00	30 Days	120 Days
0044	PowerNet, 6U VME 5 ROW 2ABCH	PX-PN002-00	30 Days	120 Days
0045	PowerNet, 6U VME 5 ROW 1E, 1ABCH	PX-PN011-00	30 Days	120 Days
0046	PowerNet Rack Mount 1E, 1ABCH Fiber	PX-PS011-00	30 Days	120 Days
0047	PowerNet Rugged, 2D Fiber	PX-RG200-00	30 Days	120 Days
0048	PowerNet Rugged, 2E Fiber	PX-RG020-00	30 Days	120 Days
0049	PowerNet Rugged, 2ABCH Fiber	PX-RG002-00	30 Days	120 Days
0050	PowerNet Rugged, 1E, 1ABCH Fiber	PX-RG011-00	30 Days	120 Days
0051	SPRS, 8CH ABCH, WM81511 CONN SLIDE KEY	PR-96110-08-08001	30 Days	160 Days
0052	SPRS, 8CH SER E, TRIAX CONN SLIDE KEY	PR-96110-08-80001	30 Days	160 Days
0053	SPRS, 8CH 4E 4ABCH TRIAX, M81511 CONN SLIDE KEY	PR-96110-44-44001	30 Days	160 Days
0054	Swift PCIe NTDS ABCH, 112 Pin	SE-02102-01	12 Months	90 Days
0055	SMILES II System, 4-Channel Parallel	SC-41001-04-0400	30 Days	160 Days
0056	SMILES II System, 6-Channel Parallel	SC-41001-06-0600	30 Days	160 Days
0057	SMILES II System, 4-Channel Serial	SC-41001-40-4000	30 Days	160 Days
0058	SMILES II System, 6-Channel Serial	SC-41001-60-6000	30 Days	160 Days
0059	SMILES II System, 6-Channel (2 Serial/ Parallel)	SC-41001-24-2400	30 Days	160 Days

0060	SMILES II System, 6-Channel (4 Serial/2 Parallel)	SC-41001-42-4200	30 Days	160 Days
0061	PowerNet Rack Mount 2-CH, 2D Copper	PX-PS200-01	30 Days	120 Days
0062	PowerNet Rack Mount 2-CH, 2E Copper	PX-PS020-01	30 Days	120 Days
0063	PowerNet Rack Mount 2-CH, 2ABCH Copper	PX-PS002-01	30 Days	120 Days
0064	PowerNet Rack Mount 1E, 1ABCH Copper	PX-PS011-01	30 Days	120 Days
0065	PowerNet Rugged, 2D Copper	PX-RG200-01	30 Days	120 Days
0066	PowerNet Rugged, 2E Copper	PX-RG020-01	30 Days	120 Days
0067	PowerNet Rugged, 2ABCH Copper	PX-RG002-01	30 Days	120 Days
0068	PowerNet Rugged, 1E, 1ABCH Copper	PX-RG011-01	30 Days	120 Days
0069	MPRS Spare Parts Kit, 2NTDS, SATA, P/S CD/DVD SADA	SR-SPKIT-01	1 Year	12 Weeks