Small/Small Disadvantaged/ Women-Owned/HUBZone/HBCU/MI/ Veteran-Owned/Service Disabled Veteran-Owned Businesses/JWOD Individual Subcontracting Plan

Including
Approved Master Subcontracting Plan Effective
01 January 2003 through 31 December 2005

Subcontracting Goals For
Solicitation No.: QA1330-05-RP-0001
SAIC Bid and Proposal No.: 6554-77-6602-504

[redacted]

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QA1330-05-CQ-1035

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[ ] References Specifically Identifies FAR 52.219-9 Requirements

** SPECIFICALLY IDENTIFIES DFAR 219.705-4

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Science Applications International Corporation
An Employee-Owned Company

10260 Campus Point Drive
San Diego, California 92121

Memorandum of Agreement Regarding Master Subcontracting Plan For the Period 01 January 2003 through 31 December 2005

Approved By:

Approved By:

[redacted]

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* REFERENCES SPECIFICALLY IDENTIFY FAR 52.219-9 REQUIREMENTS

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MASTER SUBCONTRACTING PLAN

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TABLE 1

STAFFING DESCRIPTION GUIDE

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
1	Mechanical Engineer	BS Mechanical or Marine Engineering, BS Engineering or equivalent experience.	6 years experience in the design, planning, test, installation and operation of electromechanical systems in the marine environment. Project engineering experience and marine structural design experience strongly desirable. Experience with AutoCAD is required.	
2	Senior Ocean Engineer	MS Mechanical or Ocean Engineering or equivalent degree; or BS Mechanical Ocean Engineering or equivalent degree and equivalent experience.	6 years expertise in hull design and performance analysis, scientific analysis techniques, such as FFT and spectral/statistical analysis, and evaluation of moorings and drogues. Knowledge of marine practices, hydrodynamics, computer modeling, and T &E methodology. Experience in scale modeling and tow tank testing. Project oriented, with the ability to solve non-routine problems. Experience with AutoCAD is required.	
3	Ocean/Mechanical Engineer	MS Ocean or Mechanical Engineering; or BS Ocean or Mechanical Engineering and equivalent experience	6 years experience in repair/overhaul of marine systems, including hull and appendages, superstructures, marine ocean structures, piping, power and cable systems. Familiar with preparation of mechanical design sketches and specifications. Familiarity with short order shop fabrication required.. Experience with AutoCAD and finite element analysis software is required.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
4	Configuration Management Specialist	BS Business, Industrial Management or equivalent expenence	8 years experience in configuration management administration practices and use of computer-aided tracking systems. Knowledge of technical data repository systems and failure data tracking methods.	
5	Senior Programmer Analyst	BS Math, Computer Science or equivalent experience	8 years experience in real-time applications on mini and micro computer systems. Must be proficient in data base systems and applications programming in ORACLE 9i, 10g, and 4GLs, and familiar with open systems hardware and software. Specific experience with IBM series minicomputers, LINUX, and relational data bases is desirable. Familiarity with Carnegie Mellon University and Software Engineering Institute processes.	
6	Senior Electronics Engineer	BSEE/MSEE	5 yrs. experience in design, prototype fabrication, test and debug, and production of microprocessor-based data acquisition instrumentation systems. Familiarity with analog and digital circuitry, hardware/software interface analysis, ground and satellite-linked data communications.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
7	Electronics Engineer	BSEE	2 yrs. experience in design, prototype fabrication, test and debug, and production *of* microprocessor-based data acquisition instrumentation systems. Familiarity with analog and digital circuitry, hardware/software interface analysis, ground and satellite-linked data communications.	
8	Senior Systems Engineer	BSEE or equivalent experience	10 yrs. experience in the installation, operation, test and maintenance *of* analog and digital instrumentation systems, ground and satellite data communication systems and microcomputer-based data acquisition systems.	
9	Systems Engineer	BSEE or equivalent experience	5 yrs. experience in the installation, operation, test and maintenance *of* analog and digital instrumentation systems, ground and satellite data communication systems and microcomputer-based data acquisition systems.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
10	Senior Software Engineer	MSEE or BSEE and equivalent experience	5 years experience in development of real-time software. Experience in: planning requirements, development and design, development of software test methods, testing and implementing, in accordance with industry standards, real-time data acquisition, control software for microprocessor-based data acquisition systems and offline support software. Familiarity with Carnegie Mellon University and Software Engineering Institute processes. Experience in real-time embedded software development. Experience in C, C++, and JAVA programming languages, development of Windows based applications. Experience using CASE tools for software design and development. Experience in interfacing legacy systems to new digital and analog inputs. Experience in developing software drivers for control of digital and analog hardware devices. Some familiarity with BASIC, FORTRAN, PL/M, and Lab View is desired.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
11	Software Engineer (Computer Programmer IV)	BSEE or BSCE	2 yrs. experience in development of real-time software. Experience in planning, requirements development, design, development of software test methods, testing and implementing, in accordance with industry standards, real-time data acquisition and control software for microprocessor-based data acquisition systems and offline support software. Experience in real-time embedded software development. Experience in C, C++, and JAVA programming languages, development of Windows-based applications. Experience using Motorola 68XXX and 80X86 family assembly language programming. Experience using CASE tools for software design and development. Knowledge of digital and analog software and firmware interfacing required, as well as, developing software drivers for control of digital and analog hardware devices. Some familiarity with BASIC, FORTRAN, and PUM is desired. Familiarity with Carnegie Mellon University and Software Engineering Institute processes.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
12.	Drafter IV	AS Drafting or equivalent experience	8 years broad experience in preparation and checking of electronic and mechanical drawings in accordance with military and industrial standards. Supervisory experience required in including work planning and estimation and task assignment and monitoring. Design drafting experience required. Experience in using and managing an AutoCAD system is required.	
13.	Drafter III	AS Drafting or equivalent experience	5 years experience in preparation of electronic and mechanical drawings in accordance with military and industrial standards. Experience in using AutoCAD is required. Design drafting experience strongly desirable.	
14.	Drafter II	AS Drafting or equivalent experience	2 years experience in preparing electronic and mechanical drawings from verbal instructions, sketches or fabricated part. Auto CAD training is required.	
15.	Electronics Engineer	BS EE or Electronics Engineering Technology	2 yrs experience in field maintenance, repair test and modification of marine electrical and electronics systems. Experience in-field installation, modifications, and repairs at-sea and on remote fixed sites. Ability *to* work independently, with no direct supervision. *Good* communications skills and the ability *to* represent *NDBC* in the field. Team leader at-sea experience required.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
16.	Engineering Technician VI	AS Electronics Engineering Technology or GED and equivalent experience	10 years experience in maintenance, repair, test and modification of marine electrical and electronics systems. Demonstrated ability in operating, maintaining, and calibrating microprocessor based data acquisition systems, test sets, sensors, laboratory bench equipment and precision calibration electro-mechanical instruments. Ability to work independently, with no direct supervision. Good communications skills and the ability to represent NDBC in the field." Team leader at-sea experience required.	
17.	Engineering Technician V	AS Electronics Engineering Technology or GED and equivalent experience	7 years experience in maintenance, repair, test and modification of marine electrical and electronics systems. Demonstrated ability in operating, maintaining, and calibrating, microprocessor based data acquisition systems, test sets, sensors, laboratory bench equipment and precision calibration electro-mechanical instruments. Ability to work independently, with no direct supervision. Good communications skills and the ability to represent NDBC in the field. Team leader at-sea experience required.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
18.	Engineering Technician IV	AS Electronics Engineering Technology or GED and equivalent experience	5 years experience in maintenance, repair, test and modification of marine electrical and electronics systems. Demonstrated ability in operating, maintaining, and calibrating, microprocessor based data acquisition systems, test sets, sensors, laboratory bench equipment and precision calibration electro-mechanical instruments. Ability to work independently, with no direct supervision. Good communications skills and the ability to represent NDBC in the field. Team leader at-sea experience required.	
19.	Engineering Technician III	AS Electronics Engineering Technology or GED and equivalent experience	3 years experience in maintenance, repair, test and modification of marine electrical and electronics systems. Demonstrated ability in operating, maintaining, and calibrating, microprocessor based data acquisition systems, test sets, sensors, laboratory bench equipment and precision calibration electro-mechanical instruments. Ability to work independently, with no direct supervision. Good communications skills and the ability to represent NDBC in the field. Team leader at-sea experience required.	

Position Number	*Job* Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
20.	Electronics Technician, Maintenance III	AS Electronics Engineering Technology or GED and equivalent experience	5 years experience in maintenance, repair, test and modification of marine electrical and electronics systems. Demonstrated ability in operating, maintaining, and calibrating, microprocessor based data acquisition systems, test sets, sensors, laboratory bench equipment and precision calibration electro-mechanical instruments. Ability to work independently, with no direct supervision. Good communications skills and the ability to represent NDBC in the field. Team leader experience required.	
21.	Electronics Technician, Maintenance II	AS Electronics Engineering technology or GED and equivalent experience	3 years experience in maintenance, repair, test and modification of marine electrical and electronics systems. Demonstrated ability in operating, maintaining, and calibrating, microprocessor based data acquisition systems, test sets, sensors, laboratory bench equipment and precision calibration electro-mechanical instruments. Good communications skills and the ability to represent NDBC in the field.	
22.	Electronics Technician, Maintenance I	AS Electronics Engineering Technology or GED and equivalent experience	1 year experience in maintenance, repair, test and modification of marine electrical and electronics systems.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
23.	Maintenance Machinist	HS, with vo-tech school diploma or certificate in machining or equivalent experience	10 years experience in machine shop operations (e.g. Cutting, shearing, drilling, assembling, fabricating, fastening, welding) of metallic - aluminum, carbon steel and stainless steel - and non-metallic materials; Preparation *for* and application of protective coatings. Experience in interpreting and working from standard "finished" drawings, engineering design sketches, rough concept diagrams, etc. Experience in field installations and repairs at sea, and on remote fixed sites. Ability to *work* independently, with no direct supervision. Good communications skills and the ability to represent NDBC in the field.	
24.	Maintenance Trades Helper	HS, with vo-tech school diploma or certificate in machining or equivalent experience	5 years experience in machine shop operations (e.g. Cutting, shearing, drilling, assembling, fabricating, fastening, welding) of metallic - aluminum, carbon steel and stainless steel - and non-metallic materials; Preparation *for* and application of protective coatings. Experience in interpreting and working from standard "finished" drawings, engineering design sketches, rough concept diagrams, etc. Experience in field installations and repairs at sea, and on remote fixed sites. Ability to work independently, with no direct supervision. Good communications skills and the ability to represent NDBC in the field.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
25.	Computer Systems Analyst II	BS Computer Science, Information Systems or equivalent experience	8 years relevant experience in computer system management, data base management, hardware/software systems analysis and specifications, data processing requirements coordination, computer operations, software and systems testing, and overall data management. Familiar with software and hardware in a client/server based open systems environment, and software systems developed in C++, 4GLs and 5GLs. Experience with super-mini computers, advanced workstations, desktop microcomputers, and networking, especially Windows Network, LINUX, and Windows strongly desirable. Familiarity with Carnegie Mellon University and Software Engineering Institute processes.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
26.	Computer Systems Analyst I	BS Computer Science, Information Systems or equivalent experience	5 years relevant experience in computer system management, data base management, hardware/software systems analysis and specifications, data processing requirements coordination, computer operations, software and systems testing, and overall data management. Familiar with software and hardware in a client/server based open systems environment, and software systems developed in C++, 4GLs and 5GLs. Experience with super-mini computers, advanced workstations, desktop microcomputers, and networking, especially LINUX and Windows strongly desirable. Familiarity with Carnegie Mellon University and Software Engineering Institute processes.	
27.	Network Systems Analyst	BS Computer Science, Information Systems or equivalent experience	6 years relevant experience in supporting the network requirements for a campus environment, client/server open systems architecture. Familiarity with Local Area Network Design, intelligent network hardware (hubs, routers, bridges, brouters, gateways), Wide Area Network architecture. Experience with TCP/IP, X.25, XAOO, X.500 protocols and standards. Familiarity with Windows Network strongly desired.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
28.	Database Administrator	BS in Computer Science, Information Systems or equivalent experience	6 years relevant experience with database management systems, database format design, database operational efficiency analysis, and maintenance of on-line scientific and business databases. Familiarity with current database technology and high level applications software required. Experience with IBM minicomputers, LINUX, Oracle relational database, and systems management highly desired.	
29.	Programmer Analyst III	BS in Computer Science, Information Systems or equivalent experience	8 years relevant experience. Broad experience in requirements analysis and computer systems design, development and implementation, including real-time data acquisition and processing, data communications, and scientific and business applications. Must be experienced in database systems and familiar with open systems hardware and software. Good technical writing skills and experience using standard programming methods and techniques are required. Specific experience in C++, high level languages (4GLs and SGLs), GUI design, LINUX, SQL, Oracle relational database, and Data General and IBM minicomputers highly desirable. Familiarity with Carnegie Mellon University and Software Engineering Institute processes.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
30.	Programmer Analyst II	BS Computer Science, Information Systems or equivalent experience	6 years relevant experience in requirements analysis and computer systems design, development and implementation, including real-time data acquisition and processing, data communications, and scientific and business applications. Must be experienced in database systems and familiar with open systems hardware and software. Experience using standard programming methods and techniques are required. Specific experience in C++, high level languages (4GLs and 5GLs), GUI design, LINUX, SQL, Oracle relational database, and IBM minicomputers highly desirable. Familiarity with Carnegie Mellon University and Software Engineering Institute processes.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
31.	Programmer Analyst I	BS Computer Science, Information Systems or equivalent experience	4 years relevant experience in requirements analysis and computer systems design, development and implementation, including real-time data acquisition and processing, data communications, and scientific and business applications. Must be experienced in database systems and familiar with open systems hardware and software. Experience using standard programming methods and techniques are required. Specific experience in C++, high level languages (4GLs and 5GLs), GUI design, LINUX, SQL, Oracle relational database highly desirable. Knowledge of Fortran, experience with IBM minicomputers desirable. Familiarity with Carnegie Mellon University and Software Engineering Institute processes.	
32.	Web Programmer Analyst	BS Computer Science, Information Systems or equivalent experience	5 years relevant experience in maintaining a web site and multiple home pages with interactive links to provide real-time information in a web based environment, And in Intranet based organizational web technology. Experienced in a client/server based open systems architecture. Specific experience with web development and web authoring tools to include JAVA and PERL required. Knowledge of GUI design, LINUX, Windows, PHP desirable.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
33.	Senior Data Analyst	MS Meteorology, Oceanography, or Physical Sciences, or equivalent experience.	8 years experience in analyzing meteorological and oceanographic observations (e.g. winds, atmospheric pressure, temperatures) in the marine environment and identifying observational errors of all types. Familiarity of operating characteristics of automated monitoring systems and the ability to recognize system performance anomalies.	
34.	Data Analyst II	BS Meteorology, Oceanography, Physical Sciences, or Other equivalent experience.	Four years experience in analyzing meteorological and occanographic observations (e.g. winds, atmospheric pressure, temperatures) in the marine environment and identifying observational errors of all types. Familiarity of operating characteristics of automated monitoring systems and the ability to recognize system performance anomalies.	
35.	Data Analyst I	BS Meteorology, Oceanography, Physical Sciences, or other equivalent experience.	Two years experience in analyzing meteorological and oceanographic observations (e.g. winds, atmospheric pressure, temperatures) in the marine environment and identifying observational errors of all types. Familiarity of operating characteristics of automated monitoring systems and the ability to recognize system performance anomalies.	
36.	Senior Meteorologist	MS in Meteorology or Marine Meteorology , or Atmospheric Sciences.	Minimum of six years experience that equips The applicant with a broad expert knowledge in Analyzing and interpreting meteorological data gather to by observing stations, satellites, and radar to prepare reports and forecasts for the public and other users. Understands the Relationships of numerical weather prediction output to observational data.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
37.	Meteorologist III	BS in Meteorology or Marine Meteorology, or Atmospheric Sciences.	Minimum four years experience that equips the applicant with a broad expert knowledge in analyzing and interpreting meteorological data gathered by observing stations, satellites, and radar to prepare reports and forecasts for the public and other users. Understands the relationships of numerical weather prediction output to observational data.	
38.	Meteorologist II	BS in Meteorology or Marine Meteorology, or Atmospheric Sciences.	Minimum two years experience that equips the applicant with a broad expert knowledge in analyzing and interpreting meteorological data gathered by observing stations, satellites, and radar to prepare reports and forecasts for the public and other users. Understands the relationships of numerical weather prediction output to observational data.	
39.	Senior Oceanographer	MS in Physical Oceanography, or chemical/biological/ Geographical oceanography.	Minimum six years experience that equips the applicant with a broad expert knowledge in physical oceanography and/or ocean wave phenomena. Understands, interprets and describes physical ocean date gathered by observing stations, satellites, and high frequency radar. Understands the relationships of numerical ocean products to observational data.	
40.	Oceanographer II	BS in Physical Oceanography, or chemical/biological/ Geographical oceanography.	Minimum four years experience that equips the applicant with a broad expert knowledge in physical oceanography and/or ocean wave phenomena. Understands, interprets and describes physical ocean date gathered by observing stations, satellites, and high frequency radar. Understands the relationships of numerical ocean products to observational data.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
41.	Scientific Systems Analyst	MS Math, Physical Science, Computer Science, or equivalent degree	Six years broad experience or training in scientific analysis techniques such as FFT and spectral/statistical analyses. Applications for measuring and processing ocean wave data and experience in scientific algorithm development and implementation is strongly desirable. Experience in computer systems applications, including data base management, real-time data acquisition, and data communications.	
42.	Environmental Scientist	BS Oceanography, Marine Science Meteorology, or equivalent degree	Six years experience with broad knowledge of basic physical, chemical and biological oceanic and atmospheric processes with the ability to evaluate validity of environmental measurements. Must have experience with automated measurement systems and be able to write and communicate clearly. Familiarity with high level computer languages and graphics packages as analysis tools. Experience with ocean color and optics and interactive WWW interfaces desirable.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
43.	Data Reduction Analyst II	AS or equivalent experience	Four years experience in using computers for data entry, validation, fundamental statistical computations, and report generation. Experience in maintenance *of* data files and inventories on personal computers for external user access. Experience in telephone support *of* data request and basic technical support. Knowledge *of* PC-based software languages and documentation standards is desirable.	
44.	Logistics Specialist (Supply Technician) (Transportation Assistant)	High School Diploma or GED	Minimum *of* 2 years experience in any combination *of* the following: (1) warehousing, issuing, ordering, inventory control, and maintaining consumable material to meet minimax levels; (2) arranging for shipment *of* material and equipment nationally and internationally using Government and Commercial Bills *of* Lading and surface and air express delivery services; (3) shipping and receiving material and equipment to and from vendors, other government agencies, and NDBC field sites; (4) managing a fleet *of* motor vehicles per GSA rules and regulations; (5) computerized systems for logistics functions. Familiarity with EP A requirements on handling or shipping hazardous materials; and (6) operating heavy equipment, including trucks and forklifts.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
45.	Logistics Clerk (Shipper/Receiving Clerk) (Shipper/Packer) (Warehouse Specialist)	High School Diploma or GED	Minimum of 2 years experience in any combination of the following: (1) operating trucks, forklifts, and other mechanical warehouse equipment; (2) packing, receiving and issuing equipment and supplies; (3) maintaining stock records and inventory levels of consumable materials; (4) utilizing an automated tracking and record keeping system for all types of logistics activities; (5) maintaining property records; (6) controlling and tracking of capitalized, accountable, and non-expendable property, instrumentation, and electronic equipment; and (7) collecting and inputting data into an automated or manual record keeping system. Must possess a motor vehicle operator's license.	
46.	Illustrator III	Bachelors Degree in Fine Arts/Graphics or a directly-related field	Minimum of 3 years of experience in the following: (1) preparation of materials and layout for technical papers, presentations, and displays; (2) preparation of multi-media presentations; (3) photographic techniques; (4) utilization of a variety of computer software such as Adobe PageMaker and Photoshop, Acrobat Exchange, Corel Ventura, Corel WordPerfect, Corel Presentations, Corel Quattro Pro, Microsoft Powerpoint, ScanMaker, etc.	

Position Number	Job Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
47.	Senior Quality Assurance Specialist	BS Business, Industrial Management or equi valent experience	Eight years broad industry experience on contracts having "higher-level contract quality requirements" with knowledge and experience in applying the concepts and methodology of TQM. Knowledge of quality audit performance, development of Process Inspection Plans and quality assurance procedure preparation required.	
48.	Quality Assurance Specialist	BS Business, Industrial Management or equivalent experience	Four years experience in application of quality assurance procedures and practices. Knowledge of quality audit performance and implementation of Process Inspection Plans developed in accordance with work requirements.	

Position Number	10b Title	Degree/Education	Specialized Experience	Applicable GSA Schedule
49.	Production Control Clerk	BS Business, Industrial Management or equivalent	Experience in work planning, estimating, scheduling, tracking, control and reporting in an industrial shop environment. Must utilize computerized work planning, scheduling, and data base systems. Familiarity with design and development considerations for computer work planning and scheduling is desirable.	
50.	Word Processor III	HS or equivalent	Experience in operation and supervision of word processing equipment. Experience in formatting technical documents from rough drafts, and general clerical duties. Familiarity with Desk Top Publishing utilizing Word Perfect for word processing required.	