

**ATTACHMENT J-35
EMERGENT WORK LABOR CATEGORIES**

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**ATTACHMENT J-35
EMERGENT WORK LABOR CATEGORIES**

1 SECTION 1 LABOR CATEGORY DESCRIPTION**MANAGEMENT****PROJECT DIRECTOR**

Function: Directs the Project as defined by the Program Manager to include, but not limited to: all financial management and administrative activities, such as budgeting, manpower, and resource planning and financial reporting. Performs complex evaluations of existing procedures, processes, techniques, models, and/or systems related to management problems or contractual issues that require reports and recommends solutions. Prepares charts, tables, graphs, and diagrams to assist in analyzing problems. Provides supervision, training, and direction to staff.

Education: A Bachelor's degree from an accredited college or university is required in engineering, physics, business management or equivalent.

Experience: 12-14 years of experience, of which a minimum of four-six years must be specialized in managing projects, contracts, funds, and resources for Federal programs.

Specialized Experience: n/a

Project Control Specialist

Function: Responsible for a wide variety of highly detailed and complex program activities, with emphasis on development, analysis, and evaluation of program status. Directs resource management and administrative activities such as budgeting, staffing, and resource planning, and reporting. Prepares and presents program level management reviews of project performance. Responsible for preparing, updating, and distributing project management projects, such as PERT/CPM charts, and major milestone calendars required for overall program management. Monitors and tracks identified events in each individual project and tracks the interdependencies of all schedules, resulting in an overall master schedule. Develops work breakdown structures and prepares charts, tables, graphs, and diagrams to assist in analyzing problems and making recommendations. Provides functional guidance, supervision, technical support, training, and quality assurance/quality control as necessary. Supports senior staff as required and ensures customer requirements and project milestones are met.

Education: A Bachelor's degree from an accredited college or university is required.

Experience: This position requires a minimum of six years experience, of which at least four years must be specialized. Experience includes support of Federal programs, with emphasis in the following areas: presentation and analysis of project management and financial reports, development of complex project schedules, and management support which includes but is not limited to development and presentation of briefings, point papers, information papers, staff studies, business cases, minutes, and decision papers.

Specialized Experience: n/a

INDUSTRIAL AND SYSTEM ENGINEERING

Senior Process Engineer

Functions: Responsible for the development and implementation of new technologies, develop and implement equipment and/or process enhancements that will improve efficiency, product yield and safety. Identify, plan and execute major projects involved with process improvement, and lead troubleshooting and resolution of equipment, systems and process problems to prevent the occurrence of product nonconformity. Provides technical training and guidance to process engineers and engineering technicians.

Education: (1) A Graduate Degree (MS/ME/MBA) from an accredited college or university, eight years of progressive technical experience with industrial, manufacturing, or production processes is required, OR

(2) A Bachelor's Degree (BS/BE/BA) from an accredited college or university, 10 years of progressive technical experience with industrial, manufacturing, or production processes is required.

Experience: This position requires a minimum of eight years of recent experience, comprehensively demonstrating an ability to apply expert practices and procedures within the specified area of discipline, provide technical direction to subordinate staff, provide professional findings of technical analysis in the form of reports and presentations, and to execute complex technical tasks.

Specialized Experience: Experience is required in providing technical leadership and expert guidance for assessment of manufacturing practices and capabilities; evaluation of planning and process controls; cost/performance/savings analysis; and application of operations research methods and modeling techniques. Incumbent must demonstrate specialized experience in one of the areas described below:

Design and Manufacturing experience in providing technical leadership and expert guidance for assessment of production readiness; including evaluation of statistical process controls; design integration of electro-mechanical and hydraulic systems; evaluation of manufacturing technologies and collaborative engineering processes; and evaluation of quality practices.

Production and quality experience in providing technical leadership and expert guidance for assessment of production and quality practices; kinematic process assessments; safety, health, and environmental assessments; and evaluation of risk management practices affecting manufacturing.

Test and evaluation experience in providing technical leadership and expert guidance for developmental and operational testing; interpreting requirements and developing test metrics and performance measurement objectives; conducting vulnerability analysis; assisting with instrumentation; and presenting findings and reports to oversight groups.

Senior Mechanical Engineer

Functions: Determines engineering approach and design philosophy for new product or modifications to existing products consistent with program objectives. Researches, develops, designs, and tests mechanical/structural ship and aircraft components, equipment, systems and networks. Designs may include aircraft and ship modifications, components, products, and

systems for commercial, industrial and domestic purposes. Provides direction to subordinates based on general policies and management guidance.

Education: A Bachelor's Degree from an accredited college or university is required in Mechanical Engineering. A Technology Degree in Mechanical Engineering from an accredited college or university will also comply if the individual has passed the Engineer-In-Training examination.

Experience: A minimum of eight years of recent experience in the design or engineering development of marine, aviation or other vehicle systems is required.

Specialized Experience: A minimum of three years experience in managing engineering or design projects related to ship's or aeronautical systems is required. Experience in the development of installation drawings and work package development related to machinery alterations, ship/ airframe alteration upgrades, and modification of ship/airframe systems and equipment is required.

Senior Industrial Engineer

Functions: Responsible for analyzing complex manpower, material, machine and floorspace requirements. Provide technical ergonomics resource support to plants for current and future programs. Recommend operational methods and work standards that correspond to operator work capacities using various ergonomics measurement and analysis techniques. Analyze existing or future operations and propose cost-justified improvements/implementations that comprehend operator capabilities. Assist in relocating and planning new facilities and operations. Provide information to and maintain various ergonomics management systems for documenting and reporting purposes. Prepare required plant, divisional, and corporate ergonomics reports. Develop ergonomics training materials in support of team leader training objectives.

Education: A Bachelor's degree from an accredited college or university is required in Industrial Engineering.

Experience: General experience shall consist of a minimum of two years of recent experience in project management, coordination and oversight of projects and providing technical guidance. Minimum eight years of professional experience.

Specialized Experience: A minimum of six years recent experience is required, of which at least two years experience shall be in facility utilization and maintenance, equipment utilization, and equipment procurement. Experience in facility planning/specifications is required, including equipment procurement specifications and work on projects such as military construction and industrial equipment procurement.

Industrial Engineer

Functions: Assist in analyzing complex manpower, material, machine and floorspace requirements. Research and document operational methods and work standards that correspond to operator work capacities using various ergonomics measurement and analysis techniques, which may benefit operations. Support analysis of existing or future operations and propose cost-justified improvements/implementations that comprehend operator capabilities and assist in relocating and planning new facilities and operations as directed. Provide information to and maintain various ergonomics management systems for documenting and reporting purposes.

Prepare required plant, divisional, and corporate ergonomics reports. Develop ergonomics training materials in support of team leader training objectives.

Education: A Bachelor's degree from an accredited college or university is required in industrial engineering.

Experience: five years experience in industrial engineering/manufacturing management principles and practices as they apply to the development and production of highly complex products.

Specialized Experience: Production planning/scheduling/control, facilities layout/utilization, materials handling, inventory control, work measurement, and factory simulation.

Manufacturing Systems Engineer

Functions: Ensures successful implementation and ongoing support for manufacturing systems. The role covers installation planning, sub-contract co-ordination and budget management. Employ technologies/tools for translating operational requirements into design and fabrication objectives. Ensure integration of factory floor data into the design process and determine suitability (stability and capability) of existing and proposed manufacturing processes for application to emerging product designs and variation reduction in manufacturing and assembly operations through the use of data and statistical process control.

Education: A Bachelor's degree from an accredited college or university is required in any discipline of engineering or in physics or mathematics.

Experience: Experience with engineering principles and practices as they apply to manufacturing systems for highly complex products. Areas of expertise in this discipline include producibility, quality engineering, Integrated Product and Process Design (IPPD), variability reduction, affordability, and reliability.

Specialized Experience: n/a

Reliability Engineer/Analyst - Marine Engineering/Ships

Functions: Continuously assess the reliability of marine systems and components. This includes designing reliability test plans, executing these plans, analyzing the data, and reporting the results.

Education: A Bachelor's degree from an accredited college or university is required in Marine, Industrial, or Mechanical Engineering.

Experience: five years of related experience in reliability analysis, testing or design.

Specialized Experience: n/a

Reliability Engineer/Analyst – Aviation

Functions: The primary function of the Reliability Engineer will be to continuously assess the reliability of aviation systems and avionics. This includes designing reliability test plans, executing these plans, analyzing the data, and reporting the results.

Education: A Bachelor's degree from an accredited college or university is required in Aerospace, Industrial or Mechanical Engineering.

Experience: Six to eight years of related experience in reliability analysis, testing or design.

Specialized Experience: n/a

Survivability Engineer

Functions: Propose modifications or extensions of commercial design practices to enable USCG assets to remain operational under adverse conditions, or if damaged, to prevent the total loss of the asset. Assess relative cost and difficulty to incorporate various survivability features including acquisition and life cycle impacts. Include cost and schedule implications to utilize commercial structural design and fabrication techniques to improve shock and whipping performance.

Assess commercial vulnerability and recoverability requirements that are typically based on damage caused by collision or accident to account for weapons effects induced damage.

Education: A Bachelor's Degree from an accredited college or university is required in engineering, physics or chemistry.

Experience: Six- eight years in a related field

Specialized Experience: n/a

CAD Engineer

Function: Under limited supervision, the CAD Engineer is responsible for performing complex design assignments from work orders provided. Assists engineers in the development of complex drawings, detailed mechanical or electrical drawings of components and assemblies. Works from rough sketches, schematics and verbal instructions. Creates new or modified designs for new or existing products. May also design major parts of functional operation to facilitate manufacturing process. Verifies completed work, checking dimensions, materials to be used, and quantities. Prepares bills of materials. Coordinates with other internal departments affected by design development. Work is subject to engineering approval.

Education: A Bachelor's degree from an accredited college or university is required in engineering.

Experience: Requires a minimum of three years CAD engineering experience.

Specialized Experience: n/a.

Human Factors Specialist

Functions: Define human factors (HF) requirements and concepts for input to specifications, statements of objective, and data requirements documents. Perform HF analyses to identify opportunities for improvement and assess risks of meeting customer requirements/goals. Participate in the design process and provide guidance to the design teams for incorporation of desirable human-system integration features. Provide guidance on HF program activities needed

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to ensure that subsystem requirements are met. Monitor and provide guidance on HF testing activities. Evaluate field supportability problems to identify HF improvement opportunities.

Education: A Bachelor's degree from an accredited college or university is required in Human Factors, Industrial Engineering, Psychology, Sociology or related Human Sciences field.

Experience: Must have five to eight years experience to include experience in performing human factors engineering analysis and testing. Experience in the use of PC workstations and office applications. Familiarity with computer aided design tools used to evaluate crew accommodation/installation/repair of equipment in an operational environment.

NAVAL ENGINEERING

Senior Naval/Ship Systems Engineer

Functions: Provide design activity on various mission areas including information systems, ship systems, and test systems. Responsibilities include developing hardware to meet performance requirements. Activities include, but not limited to, development of circuit cards, magnetic devices, programmable devices, subsystems and assemblies, test systems. Associated responsibilities include development of schedules and cost monitoring, participation in integrated product teams, support of one's design through manufacturing.

Education: A Bachelor 's Degree from an accredited college or university is required in Naval Architecture, Marine Engineering, Ocean Engineering, Electrical Engineering, Electronics Engineering, or Physics equivalent.

Experience: A minimum of eight years of recent managerial experience on Naval engineering projects including maintenance, repair, testing, installation, or upgrade of naval systems is required.

Specialized Experience: A minimum of five years full-time engineering experience in Combat or Marine Systems.

Senior Naval/Marine Engineer

Functions: Provide naval related engineering services to support planning and readiness assessments of ship and mission systems in the areas of producibility, design, facilities engineering and system integration.

Education: A Bachelor's Degree from an accredited college or university is required in Naval Architecture, Marine Engineering, Ocean Engineering, Electrical Engineering, Electronics Engineering, or Physics equivalent.

Experience: Eight years of recent professional engineering or management experience relating to shipbuilding acquisition and life cycle management programs. The position requires the demonstrated ability to conduct analytical examination of technical issues relating to marine and combat systems architecture, mechanical, electrical, and other engineering fields. Must have demonstrated the ability to work independently on major tasks.

Specialized Experience: This position requires a thorough knowledge of shipbuilding, major ship acquisitions and ship life cycle management.

Senior Naval Architect

Functions: Performs duties associated with the construction, modernization, overhaul, conversion, maintenance, and repair of a variety of vessels. Analyzes, evaluates, and develops naval architecture design plans, calculations of hull strength, analysis of ship stability, compartment testing, test and trial data, launching and drydocking plans, functional arrangements plans, and ventilation and air conditioning plans; in addition, analyzes, investigates, and solves difficult design problems referred by others. Uses computer-aided design equipment to create new drawings or to modify existing drawings; recommends new

methods and procedures to improve naval architecture operations; determines methods and procedures appropriate for testing and performs or directs the performance of the tests. Develops statements of work for contracted design projects including cutter alterations; and monitors the progress.

Education: A Bachelor 's degree from an accredited college or university is required in Naval Architecture, Marine Engineering, Ocean Engineering equivalent.

Experience: Eight years of experience of which a minimum of two years must involve design and analysis of the hydrodynamic aspects of ship design.

Specialized Experience: Specific expertise in the areas of propulsion, stability, survivability, maneuvering, or seakeeping.

Naval Architect

Functions: Performs duties associated with the construction, modernization, overhaul, conversion, maintenance, and repair of a variety of vessels. Analyzes, evaluates, and develops naval architecture design plans, calculations of hull strength, analysis of ship stability, compartment testing, test and trial data, launching and drydocking plans, functional arrangements plans, and ventilation and air conditioning plans; analyzes; in addition, investigates, and solves usually difficult design problems referred by others. Uses computer-aided design equipment to create new drawings or to modify existing drawings; recommends new methods and procedures to improve naval architecture operations; determines methods and procedures appropriate for testing and performs or directs the performance of the tests; develops statements of work for contracted design projects including cutter alterations; and monitors the progress of contractors.

Education: A Bachelor's degree from an accredited college or university is required in Naval Architecture, Marine Engineering, Ocean Engineering.

Experience: Five years of experience of which a minimum of three years must involve design and analysis of the hydrodynamic aspects of ship design.

Specialized Experience: n/a

Marine Propulsion Systems Engineer

Functions: Responsibilities include the design, engineering and application of diesel engines into marine propulsion units, generator sets and industrial power units; designing and specifying the engine's auxiliary systems: cooling, exhaust, air intake starting, hydraulic, electric, pneumatic and controls.

Education: A Bachelor's degree from an accredited college or university is required in Naval Architecture, Marine Engineering, Ocean Engineering, Electrical Engineering, Electronics Engineering, or Physics equivalent nautical or mechanical engineering.

Experience: Must have experience in the preparation, review, and analysis of engineering reports, test plans, test reports, and other data, including specifications.

Specialized Experience: Five years professional experience. Knowledge and competency for various types of propulsion systems, including gas turbine engines, and diesel with their related components, controls, accessories, and diagnostic equipment.

Senior Naval/Marine Weapon System Engineer

Functions: Apply engineering principles and use analytical theory to perform a variety of design, development, analysis experimentation, and test relating to the evaluation and design of naval weapons systems. Conduct specialized technical analysis, solve technical problems of moderate complexity and contribute to the development and enhancement of engineering models. May be required to develop computer programs and simulations of weapon systems to support assigned technical effort. Requires knowledge of statistical analysis techniques, fire control systems and parametric analysis.

Education: A Bachelor's Degree from an accredited college or university is required in Engineering, Naval Architecture, Marine Engineering, Ocean Engineering, Systems Engineering, Physics or Chemistry.

Experience: Position requires eight years recent engineering experience. Included in the eight years, the most recent two years must include experience in planning, organizing, and managing technical or engineering efforts required to accomplish engineering functions related to the design, development, and production of Naval/Marine weapon systems and components.

Specialized Experience: Must have experience in specific disciplines which apply to weapon engineering management such as risk assessment, configuration management, test and evaluation management, drawing procedures, reliability, quality assurance, and USCG/DOD acquisition procedures.

Junior Naval/Marine Weapon System Engineer

Functions: Apply engineering principles and use analytical theory to perform a variety of design, development, analysis experimentation, and test relating to the evaluation and design of naval weapons systems. Conduct specialized technical analysis, solve technical problems of moderate complexity and contribute to the development and enhancement of engineering models. May be required to develop computer programs and simulations of weapon systems to support assigned technical effort. Requires knowledge of statistical analysis techniques, fire control systems and parametric analysis. Includes technical, project management, and administrative responsibilities. Project asks include specification, design, troubleshooting, and support activities. Administrative tasks include functional management of an engineering section and Integrated Product Team management of a work group on a Strike product line program.

Education: A Bachelor's Degree from an accredited college or university is required in Engineering, Naval Architecture, Marine Engineering, Ocean Engineering, Systems Engineering, Physics or Chemistry.

Experience: Position requires three years recent engineering experience. Included in the three years, the most recent year must be experience in planning, organizing, and managing technical or engineering efforts required to accomplish engineering functions related to the design, development, and production of Naval/Marine weapon systems and components.

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Specialized Experience: Must have experience in specific disciplines which apply to weapon engineering management such as risk assessment, configuration management, test and evaluation management, drawing procedures, reliability, quality assurance, and USCG/DOD acquisition procedures.

AVIATION ENGINEERING

Senior Aviation Engineer

Functions: Lead engineering programmatic and technical support in the areas of aviation systems. Work on new communications, navigation, and surveillance systems; conduct alternative concept development and evaluation requirements, analysis and definition performance and reliability evaluation and risk assessment. Integrate multiple technical disciplines concerning aviation aspects of engineering services.

Education: A Bachelor's Degree from an accredited college or university is required in Aeronautical/Mechanical/Civil/ Chemical/Materials Engineering, or Applied Mechanics.

Experience: A minimum of eight years of recent experience in aeronautical or mechanical engineering is required. This position requires sufficient experience to assume project engineering responsibility for the project as might be assigned.

Specialized Experience: Experience in the following disciplines:

Aircraft design criteria and specifications

Derivation of aircraft mission profiles, corresponding repeated loads for aircraft/components, and repeated loads spectra

Analysis of flight-test loads and parameters

Design experience on metallic and composite airframe structures

Senior Aerospace Engineer

Functions: Designs, develops, and tests aircraft, surface effect vehicles, and related component systems. Apply engineering principles and techniques. Design and develop commercial, military, or special purpose aircraft or related hardware or systems. Tests models, prototypes, subassemblies, or production vehicles to study and evaluate operational characteristics and effects of stressed imposed during actual or simulated flight conditions. Can specialize in design and development of structural components, or operational control systems. Can specialize in analytical programs concerned with ground or flight-testing, or development of acoustic, thermodynamic, or propulsion systems. May assist in planning technical phases of air transportation systems or other aspects of flight operations, maintenance, or logistics.

Education: A Bachelor of Science degree from an accredited college or university is required in Aerospace Engineering.

Experience: General experience shall consist of a minimum of eight years of recent experience in project management, coordination and oversight of projects and providing technical guidance.

Specialized Experience: At least two years of experience shall be in one or more of the following areas: aircraft weapon systems/ subsystems and related engineering disciplines, in failure cause

determination, conducting investigations and analyses, preparing technical reports and technical instructions for maintenance personnel, and determining scheduled maintenance requirements.

Avionics Integration Engineer

Functions: Provide leadership in systems integration engineering and software requirements specification for Avionics Systems. Define requirements that meet the performance objectives. Flow requirements into system architectures that identify specific hardware. Perform studies on these architectures that tradeoff weight, power, reliability, throughput, redundancy, and cost that results in definitive network, hardware, and software requirements. Develop specifications for avionics components to be used on military and space aircraft. Develop acceptance tests for integrated systems.

Education: Bachelor's degree from an accredited college or university is required in electrical engineering or computer engineering.

Experience: Five years experience supporting subsystem integration, analysis, test, and evaluation activities that include, but are not limited to, systems architecture, avionics integration/test, avionics system-level hardware/software integration/test, and avionics system interface specifications based on weapons system requirements.

Aviation Propulsion Engineer

Functions: Provide technical support for projects related to aircraft propulsion. Activities include technical support and performance analyses for motor systems used in current systems. Supports design and development of propulsion and hybrid propulsion systems, and conducts motor performance prediction, propellant aging characterization, propulsion hardware assessment/assurance and establishment of test requirements.

Education: A Bachelor's degree from an accredited college or university is required in aerospace, aeronautical, or mechanical engineering.

Experience: Five years of professional experience. Preparation, review, and analysis of engineering reports, test plans, test reports, and other data, including specifications.

Specialized Experience: Must have knowledge and competency for various types of propulsion systems, including gas turbine engines, ramjets, and rocket motors, with their related components, controls, accessories, and diagnostic equipment.

Flight Mechanics Engineer

Functions: Prepare, review and analyze the engineering reports, test plans, test reports, and other data, including specifications. Activities involve analysis of aircraft aerodynamics, flow field and wake characteristics, inlet and nozzle performance, flight vehicle performance, flying qualities, and flight control systems. Engage in development of contractual working relationships. Perform trade studies on conceptual designs of advanced flight systems. Responsible for ensuring the quality of work, timeliness of technical and administrative products, and the coordination of resources to satisfy customer needs.

Education: A Bachelor's degree from an accredited college or university is required in aerospace, aeronautical, or mechanical engineering.

Experience: Five years professional experience with three years experience in preparation, review, and analysis of engineering reports, test plans, test reports, and other data, including specifications.

Specialized Experience: Knowledge and competency for aircraft aerodynamics, flow field, and wake characteristics, inlet and nozzle performance, flight vehicle performance, flying qualities, and flight control systems.

Structures Engineer

Functions: Provide technical support in structural engineering to include - design, development, and preparation of documentation for modification, repair and alterations of aircraft and components; evaluation of aircraft literature, new equipment and systems for improvements in safety, reliability, economics, etc., and of FAA regulations for required action and implementation; perform other duties as assigned.

Education: (1) Bachelor's degree from an accredited college or university is required in aerospace, civil aeronautical, or mechanical engineering or related technical degree, OR

(2) A related Bachelor's degree from an accredited college or university is required plus two years of airline/aerospace engineering/technical experience OR

(3) A related Bachelor's degree from an accredited college or university is required plus two years of airline/aerospace engineering experience; thorough knowledge and understanding of structural analysis for substantiating repairs and structural modifications; familiar with FARs and FAA regulations; strong written and oral communication skills and technical writing.

Experience: Five years experience in the preparation, review, and analysis of engineering reports, test plans, test reports, and other data, including specifications. Person must have knowledge and competency for analysis aircraft external loads, internal loads and stress analysis, materials applications, fatigue and fracture mechanics, corrosion prevention and control, structural dynamics, and mass properties.

Specialized Experience: n/a

ELECTRONICS

Senior Electrical Engineer

Functions: Participate in the quoting, engineering, electrical design, programming, installation, commissioning and ongoing support of electrical systems. Work within a team structure to finalize/implement a design, programming (PLC, operator interface, and data collection packages), installation support and commissioning (visiting customer's facility to test instrumentation and automation systems and start production) and ongoing customer support (phone - troubleshoot problems). Establish external relationships with customers, vendors, and contractors.

Education: A Bachelor 's Degree from an accredited college or university is required in Electrical or Electronics Engineering, or a Technology Degree in Electrical or Electronics Engineering from an accredited college or university and have passed the Engineer-In-Training examination.

Experience: A minimum of seven years of recent experience in the design or engineering development of systems in the electrical/electronics field is required.

Specialized Experience: A minimum of three years experience in managing engineering or designing projects related to ship and aircraft systems is required. Experience in the development of installation drawings and work package development related to machinery alterations, ship/ aircraft alteration upgrades, and modifications of ship systems and equipment is required.

Senior Radar/Communications Electronics Engineer

Functions: Perform system level, and overview analysis of radar systems and concepts in support of multiple programs. The radar systems to be considered involve airborne and space based systems. These systems will operate over frequencies from VHF to Ku-band. The radar modes to be considered include GMTI, SAR, and AEW, plus new radar modes that are currently under development. The results of these studies and analyses will be prepared as reports or briefings for the Government and program managers as required. Responsible for handling major evaluation/measurement projects of Technical Labs as assigned with minimal but periodic supervision. Perform in-house analysis of the architectures, protocols, services and quality of service standards being progressed in international and regional telecommunication standards foray, in order to determine their impact on satellite transmission medium. Provides initial device configurations for installed hardware. Installs and maintains datacom and telecom connections. Documents all work and provide feedback to improve that documentation. Performs detailed testing on various lab platforms and will plan and evaluate testing of new hardware in a hybrid networking environment. Writes and maintains extensive written documentation including test plans, test results, architecture analysis, and documentation of lab configuration. Formulates, implements, and maintains device test plans. Interacts with other engineering team members.

Education: (1) A BSEE, BSET, or a bachelor's degree in physics is required from an accredited college or university is required, OR

(2) A Bachelor's degree from an accredited college or university is required in Computer Science, Engineering or a related field (or equivalent work experience). Must be current on emerging communication and networking technologies.

Experience: Two years of recent specific experience in data link communications and four years of recent general experience in the design and implementation of communications, data processing or radar systems is required.

Specialized Experience: n/a

Electrical Power Engineer

Functions: Support trade studies, develop and analyze control and distribution system changes, conduct tests, and develop new equipment as required to meet electrical power needs.

Coordinate with various systems leads to facilitate identifying appropriate interface, design and test requirements. Develop and maintain loads analyses test.

Education: A Bachelor's degree from an accredited college or university is required in electrical engineering.

Experience: A minimum of five years experience in electrical power generation, storage and distribution, and electrical distribution systems. Strong technical skills in electric distribution system design and operations, including relay and control.

Specialized Experience: n/a

SOFTWARE/C4I ENGINEERING

Senior Software Engineer

Functions: Writes software for on-line access to server information, including common gateway interface scripts. Builds external interfaces to communications servers, remote information servers and browsers. Analyzes system information requirements and design specifications using current state-of-the-art methodologies for development of large scale, distributed management information systems such as IDEF, CASE and object oriented design methodologies. Performs oversight of integration and testing of individual computer software configuration items (CSCI). Designs software tools and subsystems to support software reuse and domain analysis. Interprets software requirements and design specifications to code, and integrates and tests software components. Performs supervision, quality control and technical evaluation of software engineer personnel. Supports senior staff in developing and maintaining software Configuration Management (CM) Process and coding standards. Participates in the development of test plans and procedures for Computer Software Configuration Items (CSCI's). Prepares required documentation, including program-level documentation. Provides functional guidance, supervision, technical support, training and quality assurance/quality control to subordinate personnel. Supports senior staff as required and ensures customer requirements and project milestones are met.

Education: Master's degree in Computer Science, Information Systems, Software Engineering, or other related computer science or technical discipline

Experience: Minimum of six years experience, of which at least four years must be specialized.

Specialized Experience: applications programming on large-scale distribute database management systems and ability to develop complex software to satisfy design objectives. Experience with UNIX, C, C++, Internet application development (HTML, JAVA, CGI), X-Windows, SQL, IDEF, CASE preferred. Demonstrated ability to work independently.

Software Engineer

Functions: Writes software for on-line access to server information, including common gateway interface scripts. Builds external interfaces to communications servers, remote information servers and browsers. Analyzes system information requirements and design specifications using current state-of-the-art methodologies for development of large scale, distributed management information systems such as IDEF, CASE and object oriented design methodologies. Assists in the integration and testing of individual computer software configuration items (CSCI). Participates in the design of software tools and subsystems to support reuse and domain analysis. Assists Senior Software Engineer to interpret software requirements and design specifications to code, and integrate and test software components. Supports the supervision, quality control and technical evaluation of software engineer personnel. Participates in the development of test plans and procedures for Computer Software Configuration Items (CSCI's). Prepares required documentation, including program-level documentation.

Education: Associate's degree in Computer Science, Information Systems, Software Engineering, or other related science or technical discipline.

Experience: Minimum of two years of experience in applications programming relative to database management systems, and ability to develop software to satisfy design objectives.

Database Management Specialist

Functions: Provides highly technical expertise in the use of Data Base Management Systems (DBMS) for the scheduling software. Defines file organization, indexing methods and security procedures for specific user applications (SUA). Reviews technical computer data to SUA and scheduling of air traffic through supported software and coordinates with the appropriate support personnel or specific user site to verify scheduling data is accurate prior to data input.

Education: Bachelors degree in Computer Science, information Systems, Engineering, Business or other related discipline.

Experience: Minimum of two years experience working DBMS.

OR

Education: High school diploma or equivalent.

Experience: Minimum of eight years experience working DBMS.

Specialized Experience: n/a

Senior Communications Software Specialist

Functions: Analyzes and develops computer software possessing a wide range of capabilities, including numerous engineering, business, and records management functions. Develops plans for Automated Data Processing (ADP) systems from project inception to conclusion. Analyzes the problem and the information to be processed. Defines the problem, and develops system requirements and program specifications, from which programmers prepare detailed flow charts, programs, and tests. Coordinates closely with programmers to ensure proper implementation of program and system specifications. Develops system alternative solutions, in conjunction with functional users. Provides functional guidance, supervision, technical support, training and quality assurance/quality control to subordinate personnel. Supports senior staff as required and ensures customer requirements and project milestones are met.

Education: Master's degree in Computer Science, Information Systems, Communications Systems, Engineering, Software Engineering, or other related computer science or technical discipline.

Experience: Minimum of six years experience, of which at least four years must be specialized.

Specialized experience: Analysis and design of business applications on complex systems for large-scale computers, including three years experience in database management concepts.

Communications Software Specialist

Functions: Analyzes and develops computer software possessing a wide range of capabilities, including numerous engineering, business, and records management functions. Participates in developing plans for Automated Data Processing (ADP) systems from project inception to

conclusion. Analyzes the problem and the information to be processed. Assists in defining problems, and develops system requirements and program specifications, from which programmers prepare detailed flow charts, programs, and tests. Coordinates closely with programmers to ensure proper implementation of program and system specifications. Supports the development of system alternative solutions, in conjunction with functional users. Supports senior staff as required and helps ensure customer requirements and project milestones are met.

Education: An Associate's degree in Computer Science, Information Systems, Communications Systems Engineering, Software Engineering, or other related computer science or technical discipline.

Experience: Minimum of three years experience in a related field.

Specialized Experience: Analysis and design of business applications on complex systems for large-scale computers and database management concepts.

Senior System Programmer

Functions: Creates and/or maintains operating systems, communications software, database packages, compilers, assemblers, and utility programs. Modifies existing software, as well as, create special-purpose software to ensure efficiency and integrity between systems and applications. Provides functional guidance, supervision, technical support, training and quality assurance/quality control to subordinate personnel. Supports senior staff as required and ensures customer requirements and project milestones are met.

Education: Master's degree in Computer Science, Information Systems, Software Engineering, or other related computer science or technical discipline.

Experience: Minimum of five years experience, of which at least three years must be specialized.

Specialized Experience: ADP systems analysis and programming. Depending on the task order under which an individual is required from this labor category the Government may seek individuals with skills/knowledge/experience in computer languages which support older legacy ADP systems which may include but are not limited to such languages as ADA, COBOL, third/fourth generation languages, and DBMS; as well as looking for individuals with skills/knowledge/experience in current computer languages which support newer ADP systems which may include but are not limited to such newer languages as C++, Java, and Windows, as well as internet application and interface languages. Must demonstrate the ability to work independently or under only general direction.

System Programmer

Functions: Create and/or maintain operating systems, communications software, database packages, compilers, assemblers, and utility programs. Modify existing software, as well as, create special-purpose software to ensure efficiency and integrity between systems and applications. Supports senior staff as required and ensures customer requirements and project milestones are met.

Education: Associate's degree in Computer Science, Information Systems, Software Engineering, or other related computer science or technical discipline.

Experience: Minimum of three years experience, of which at least one year must be specialized.

Specialized Experience: ADP systems analysis and programming. Depending on the task order under which an individual is required from this labor category the Government may seek individuals with skills/knowledge/experience in computer languages which support older legacy ADP systems which may include but are not limited to such languages as ADA, COBOL, third/fourth generation languages, and DBMS; as well as looking for individuals with skills/knowledge/experience in current computer languages which support newer ADP systems which may include, but are not limited to, such newer languages as C++, Java, and Windows, as well as internet application and interface languages. Must demonstrate the ability to work independently or under direction.

Programmer/Analyst

Functions: Provide application programming and development support on mainframe and/or PC's. Specific duties include, but are not limited to, coding and designing new and/or modifying programs; modifying scripts as required; controlling system testing; debugging, reviewing and approving output; preparing user, operation and program documentation based upon established company policy; regularly providing guidance and training to less experienced programmer analysts and working with users to ensure needs are met.

Education: Associate Degree in computer science, engineering, mathematics, or a related information science. Two years practical work experience in systems design and programming may be substituted for the Associate Degree requirement. The experience substituted for education shall not overlap the experience requirements for this labor category.

Experience: Two years of recent experience working in IT systems analysis and design that includes the programming of designed systems.

Specialized Experience: Software development of large batch and on-line business systems using programming languages, e.g., ADA, COBOL and fourth generation languages, e.g., FOCUS. Structured analysis and design. Analysis and programming of PC based business systems.

C4I Systems Engineer

Functions: Validate, engineer C4I requirements, ensure their compatibility with C4I plans and designs plan, and develop a total, integrated modernization strategy for engineer C4I that includes all system requirements.

Education: With a Graduate Degree (MS/ME/MBA), four years of progressive technical experience with air, naval or C4I systems is required. With a Bachelor's Degree (BS/BE/BA), six years of progressive technical experience with air, naval or C4I systems is required.

Experience: A minimum of four recent years experience, comprehensively demonstrating an ability to apply expert practices and procedures within the specified area of discipline, accomplish scientific and engineering analysis, provide professional findings of technical analysis in the form of reports and presentations, and to execute complex technical tasks.

Specialized Experience: Software. Demonstrated experience is required with software engineering for embedded, real-time systems; ensuring overall quality practices are implemented; providing life cycle support assessments; validating performance; and accomplishing configuration management and documentation to ensure design integrity.

Demonstrated experience in providing assessments of communications/navigation systems; ensuring compliance with Federal architectures and OSI/ISO standards; validating performance of on-board electronics systems, antenna technologies, and ancillary components; and supporting interoperability testing and performance validation.

Systems Integration Engineer

Functions: Analyzes and identifies all or part of existing or new computer (and/or server), peripheral, network, and telecommunications systems requirements, taking into consideration the special technology needs. Designs, implements, codes, tests, documents, and maintains systems integration solutions to total system or subsystems. Establishes functional and technical specifications, solves hardware/ software interface problems and designs input/output parameters. Develops solutions to problems of unusual complexity, which require a high degree of inequity, creativity, and innovativeness.

Education: A Bachelor's degree from an accredited college or university is required in aeronautical, electrical, or mechanical engineering.

Experience: Six years experience in determining the ability of assigned equipment and subsystems to meet mission and operational requirements, and accomplishing the effective integration of subsystem into a complete operational marine or aeronautical system.

Specialized Experience: Four years experience in interpreting operational requirements, determining subsystem interfaces, and analyzing design trade-offs within limitations imposed by cost, performance, production schedules, and supporting requirements.

Junior Systems Integration Engineer

Functions: Analyzes and identifies all or part of a company's existing or new computer (and/or server), peripheral, network, and telecommunications systems requirements, taking into consideration the special technology needs. Designs, implements, codes, tests, documents, and maintains systems integration solutions to total system or subsystems. Establishes functional and technical specifications, solves hardware/ software interface problems and designs input/output parameters. Develops solutions to problems of unusual complexity, which require a high degree of inequity, creativity, and innovativeness.

Education: A Bachelor's degree from an accredited college or university is required in aeronautical, electrical, or mechanical engineering.

Experience: Three years experience in determining the ability of assigned equipment and subsystems to meet mission and operational requirements, and accomplishing the effective integration of subsystem into a complete operational marine or aeronautical system.

Specialized Experience: Experience in interpreting operational requirements, determining subsystem interfaces, and analyzing design trade-offs within limitations imposed by cost, performance, production schedules, and supporting requirements.

Senior Telecommunications Electronics Engineer

Functions: Performs professional engineering assignments in support of telecommunications engineering efforts in one or more of the following disciplines: satellite communications,

transmission systems, fiber optic communications, switched networks, network management, or control systems.

Education: Must possess an advanced degree in electrical, electronics, or systems engineering from an accredited college or university.

Experience: 10-15 years experience in a related field. Five years of this work experience must be directly related to the above listed functions. A PhD may be substituted for two years related experience.

Junior Telecommunications Electronics Engineer

Functions: Performs professional engineering assignments in support of telecommunications engineering efforts in one or more of the following disciplines: satellite communications, transmission systems, fiber optic communications, switched networks, network management, or control systems.

Education: Bachelor's degree in electrical, electronics, or systems engineering from an accredited college or university is required.

Experience: Minimum of two years experience in related field. One year of this work experience must be directly related to the above listed functions.

LOGISTICS

Senior (Sr.) Logistics Analyst

Functions: Perform various tasks related to the development, operation, evaluation, and improvement of naval, aircraft, or C4I systems supportability and/or maintainability programs, and information systems as related to training applications. Work on training, logistics and maintainability programs, and with training, logistics and maintenance control organizations on issues such as: technical evaluation and identification of weapon system logistics requirements and resources, development of logistics support and maintainability programs or plans; systems acquisition requirements analysis; budgetary or financial analysis and control; life cycle cost analysis and control; weapon systems hardware and software standardization and compatibility; and integrated logistics support test, evaluation, planning, and execution. Apply accepted analytical concepts to determine the logistical requirements to support the identified training system in an independent environment.

Education: Successfully completed a technical school, trade school, or advanced armed services technical school curriculum or course of study in electricity, electronics, avionics, mechanics, armament/ordnance or engineering technology; or shall have successfully completed a minimum of 30 semester hours of course studies at an accredited college or university in engineering, scientific or technical courses.

Experience: Eight years of experience in performing the foregoing functions, of which a minimum of four years of recent experience (within the last five years) must consist of performing technical documentation and/or system test and evaluation functions directly related to DOD or other Government naval or aircraft systems.

Specialized Experience: n/a

Logistics Analyst

Functions: Perform various tasks related to the development, operation, evaluation, and improvement of naval, aircraft, or C4I supportability and/or maintainability programs, and information systems as related to training applications. Work on training related logistics and maintainability programs, and with training related logistics and maintenance control organizations on issues such as: technical evaluation and identification of weapon systems logistics requirements and resources; development of logistics support and maintainability programs or plans; systems acquisition requirements analysis; budgetary or financial analysis and control; life cycle cost analysis and control; weapon systems hardware and software standardization and compatibility; and, integrated logistics support test, evaluation, planning and execution.

Education: Successfully completed a technical school, trade school, or advanced armed services technical school curriculum or course of study in electricity, electronics, avionics, mechanics, armament/ordnance or engineering technology; or shall have successfully completed a minimum of 30 semester hours of course study at an accredited college or university in engineering, scientific, or technical courses.

Experience: Six years naval, aircraft, or C4I system, analytical or management experience. A minimum of two of the six years experience must be directly related to training systems or subsystems, and knowledge of the factors involved in the analysis, design, development,

implementation, evaluation and support of the identified training system directly related to Deepwater items or services. This experience may have been gained concurrent with the six years of weapon system experience.

Specialized Experience: n/a

Senior Logistics Manager

Functions: provides Integrated Logistic Support through planning maintenance, coordinating and scheduling supply support and testing; general management of equipment, technical data, other logistics concentrated matters. Requires leveraging thorough knowledge of shipbuilding, aircraft maintenance, major marine acquisitions and life cycle management.

Education: Bachelors Degree in Management or a related field from an accredited college or university is required.

Experience: Eight years of recent Integrated Logistic Support experience spent in the development of logistics support for marine or air acquisition programs and life cycle management (including modernization and maintenance).

Specialized Experience: n/a

Reliability and Maintainability Engineer

Functions: Responsible for proactive establishment and continuous implementation of an existing Reliability and Maintainability program. Incumbent will interface with Coast Guard logistics organizations as well as working directly with Coast Guard and defense contractor equipment specialist, logistics managers, and systems engineers.

Education: Bachelor's degree in aeronautical, electrical, mechanical, or reliability and maintainability engineering, from an accredited college or university is required.

Experience: Five years in developing system/subsystem/equipment reliability and maintainability criteria tailored to the proposed application, for technical/ programming/contractual documents.

Specialized Experience: Two years experience in formulating reliability and maintainability test programs and operating procedures for system segments such as avionics and flight systems.

ENVIRONMENTAL

Environmental Systems Engineer

Functions: Analyze, design and evaluate natural or man-made systems with an awareness of economic, humanitarian, environmental and administrative implications.

Education: Bachelor's degree in engineering from an accredited college or university is required. A degree in systems engineering is desired.

Experience: Six years experience in systems acquisition, pollution prevention, and the implications of design to satisfy laws and technical requirements.

Specialized Experience: n/a

Senior Environmental Scientist

Functions: Conducts research, monitoring, and restoration of natural physical processes, using quantitative and qualitative techniques. Principle field tasks include interpretation of geomorphology, measurement of water discharge, survey of ephemeral stream hydrology, identification of erosional and depositional features, recommendation of stream and wetland restoration techniques, mapping of channel change, testing of water quality, maintenance of meteorological equipment, and identification of riparian vegetation types. Tasks include developing research projects, project planning, developing management documents related to physical sciences, reviewing construction plans, and monitoring construction sites for environmental compliance. Conducts or supervises data management and water sample collection, GPS data collection, GIS data entry, and other time critical data needs. Leads multidisciplinary environmental project teams focused on scientific study design and interpretation collecting, managing, and analyzing environmental data writing technical reports.

Education: Master's degree in environmental or natural science, engineering, geology, chemistry, other related science from an accredited college or university, or equivalent, at least three years of full-time environmental consulting experience.

Experience: Ten years of experience in the environmental industry.

Specialized Experience: Five years must be specialized in environmental management or consulting.

Environmental Scientist

Functions: Conducts research, monitoring, and restoration of natural physical processes, using quantitative and qualitative techniques. Principle field tasks include interpretation of geomorphology, measurement of water discharge, survey of ephemeral stream hydrology, identification of erosional and depositional features, recommendation of stream and wetland restoration techniques, mapping of channel change, testing of water quality, maintenance of meteorological equipment, and identification of riparian vegetation types. Tasks include developing research projects, project planning, developing management documents related to physical sciences, reviewing construction plans, and monitoring construction sites for environmental compliance. Conducts or supervises data management and water sample collection, GPS data collection, GIS data entry, and other time critical data needs. Assists senior

staff in scientific study design and the interpretation, collecting, managing, analyzing of environmental data and drafts technical reports.

Education: Bachelor's degree in environmental or natural science, engineering, geology, chemistry, other related science, or equivalent, at least three years of full-time environmental consulting experience.

Experience: Six years of experience in environmental industry with two years experience in environmental management or consulting.

Specialized Experience: n/a

TEST AND EVALUATION

Test Engineer

Functions: Responsible for designing test fixtures, preparing test protocols, analyzing data, and writing technical reports.

Education: Bachelor's or Master's degree in Mechanical Engineering from an accredited college or university is required and a background in numerical and experimental stress analysis techniques.

Experience: Five years experience in the conducting of tests on C4I systems and infrastructure or air and naval systems, and preparation of test procedures and data collection sheets, and installation of communications equipment.

Specialized Experience: n/a

Junior Test Engineer

Functions: Responsible for contributing to the design of test fixtures, preparing test protocols, analyzing data, and contributing to technical reports.

Education: Bachelor's degree in Mechanical Engineering from an accredited college or university is required with some experience in numerical and experimental stress analysis techniques.

Experience: Two years experience in the conducting of tests on C4I systems and infrastructure, avionics or naval systems, and preparation of test procedures and data collection sheets, and installation of communications equipment.

Specialized Experience: n/a

Test and Evaluation Analyst

Functions: Provide programmatic advice. Assist in development of Operational Test requirements for test plans, utilizing familiarity with source documents to include MNS, ORD and DOD 5000 series. Represents and or assists at programmatic and field activity meetings. Provide technical advice on acquisition policies, as they relate to TandE. Conduct analysis of prospective test requirements for the program and recommend a strategy for the test program including developmental, operational and live fire testing issues. Be able to address integration testing, interoperability, and compliance with USCG/DoD acquisition regulations. Apply test metrics required to identify technically feasible developmental and operational approaches. Identify risks that may be encountered and recommend mitigation approaches. Develop a recommended approach in usage of tools for use in modeling and simulation and test configuration management. Identify integration implications and provide a recommended approach for asset test programs.

Education: A Bachelor's Degree in Engineering, Physics or Chemistry is required from an accredited college or university.

Experience: Minimum of two years experience in related field. One year of this work experience must be directly related to the above listed functions.

Specialized Experience: n/a

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FINANCIAL

Senior Cost Estimator/Research Analyst

Functions: Develops detailed Cost Estimates for new projects or variations on the awarded Contracts. Makes in-depth analysis of the cost estimates developed by the contractors and identifies areas of reduction. Develops and maintain Cost Database from records on past projects. Responsibilities include developing and maintaining systems and procedures covering the areas of Cost Estimating, Database and Reporting. Develop detailed Cost Estimates covering disciplines like Civil, Mechanical, Electrical engineering for new projects and for variations on current projects. Makes in-depth analysis of Contractors/Engineers Cost Estimates for new projects/variatioins to the awarded scope of work. Determines area of over estimation and develops counter estimates. Discusses/reviews the detailed estimates with Contractor/Engineers as required. Collects past data on cost incurred on the completed projects and develop the Cost Database for the department for various disciplines. Maintains the Database with the input from new projects. Uses PC based Cost Estimating Software in developing the estimates where needed. Assists in preparing Operating and Capital budgets for projects. Assist in analyzing the actual costs and projecting the final cost of the on going projects. Prepares cost related reports, as required.

Education: Bachelor's degree from an accredited college or university is required with 24 semester hours in quantitative analysis courses.

Experience: Six years of major Federal system acquisition cost research experience (excluding C/SCSC experience and cost performance report analysis experience) and three years of weapons system acquisition cost estimating experience.

Specialized Experience: History of progressively more responsible assignments, and has managed or provided overall direction and leadership for the preparation of cost estimates and/or cost research projects.

Cost Research Analyst

Functions: Applies diversified knowledge of systems cost research principles and practices in areas of assignments. Work requires the modification and extension of existing methodologies and may require the use of advanced techniques. Plans and conducts work requiring judgment in the evaluation, selection, and adaptation and/or modification of methodologies and tools. Normally receives technical guidance or consults with senior researchers on unusual or complex problems. Work requires the technical capability to assess the cost and schedule implications of existing and projected technological advances, as well as the capability to evaluate the impact of new and innovative acquisition strategies. Work is reviewed by the senior researcher or manager to ensure technical accuracy, and to ensure it satisfies customer needs and complies with the contractor's overall research quality standards.

Education: Bachelors degree from an accredited college or university is required with 24 semester hours in quantitative analysis courses.

Experience: At least three years of Federal system acquisition cost analysis experience (excluding C/SCSC experience and cost performance report analysis experience).

Specialized Experience: n/a

ADMINISTRATION

Administrative Specialist/ Word Processor

Functions: Types technical reports, papers, test plans or other program/project documentation in a final format from rough notes or drafts. Can proofread, and correct spelling, grammar and phraseology. Operates word processing and reproduction equipment.

Education: High school diploma or equivalent required.

Experience: Ability to type 40 words per minute and one year experience in typing technical reports, documentation following military standards and procedures using word processing equipment, manuals, texts, tables, and formal reports for reproduction.

Specialized Experience: n/a

Senior Graphics Specialist

Function: Shall support the development of all contract deliverables and reports by developing and updating graphics presentations to improve the quality and enhance the usability of these documents. Shall be responsible for integrating the graphics generated with automated tools and the deliverable documents. Provides functional guidance, supervision, technical support, training and quality assurance/quality control to Level I personnel.

Education: Bachelor's degree in Graphics Arts, English, Literature, or other related discipline applicable to this position from an accredited college or university is required.

Experience: Minimum of five years experience in developing graphics/artistic presentations for publications and documents (preferably technical documentation)

Specialized Experience: Two years of experience using commercial automated word processing (e.g., WordPerfect, Word) and graphics (Harvard, Freelance, etc.) systems. Experience with desktop publishing systems is highly desirable. Must demonstrate the ability to work independently or under only general direction

Junior Graphics Specialist

Functions: Shall support the development of all contract deliverables and reports by developing and updating graphics presentations to improve the quality and enhance the usability of these documents. Shall be responsible for integrating the graphics generated with automated tools and the deliverable documents.

Education: Associate's degree in Graphics Arts, English, Literature, or other related discipline applicable to this position from an accredited college or university is required.

Experience: Minimum two years experience in graphics or a related field.

Specialized Experience: Basic familiarity with graphic software programs, such as Freelance or Power Point, for use in development of graphics/artistic presentations for publications and technical documents. Experience with other desktop publishing programs/systems is highly desirable. Requires two years experience in editing documents, proofreading, and technical writing. Must demonstrate the ability to work independently or under only general direction.

Senior Technical Writer/Editor

Functions: Assist in collecting and organizing information required for preparation of user manuals, training materials, installation guides, proposals, and reports. Edit functional descriptions, system specifications, user manuals, special reports, or any other customer deliverables and documents. Assists in performing financial and administrative functions. Provides functional guidance, supervision, technical support, training and quality assurance/quality control to Level I personnel.

Education: Bachelor's degree in English, Literature, or other related discipline applicable to this position from an accredited college or university is required.

Experience: Minimum of four years experience, of which at least two years must be specialized.

Specialized Experience: Demonstrated experience in editing documents, including technical documents. Must demonstrate the ability to work independently or under only general direction. Experience in proofing and editing technical documents is highly desirable.

Junior Technical Writer/Editor

Functions: Assist in collecting and organizing information required for preparation of user manuals, training materials, installation guides, proposals, and reports. Edit functional descriptions, system specifications, user manuals, special reports, or any other customer deliverables and documents. Assists in performing financial and administrative functions.

Education: Associate's degree in English, Literature, or other related discipline applicable to this position from an accredited college or university is required.

Experience: Two years experience in editing documents, proofing and technical writing. Must demonstrate the ability to work independently or under only general direction.

Specialized Experience: n/a

TECHNICIAN/INTEGRATION

Marine Electrician

Functions: Installs, maintains and repairs generators, transformers, switchboards, motors, heaters etc. Trouble shoots and evaluates electrical problems. Installs, commissions and services computer equipment and marine instrumentation on board Vessels. Performs tests and analyses on marine electrical systems and conducts necessary repairs. Collects, analyzes and records data as required.

Education: High School Education or equivalent.

Experience: Six years recent experience with marine systems.

Specialized Experience: n/a

Facilities Technician

Functions: Functions: Maintains all facilities equipment by preventing or repairing malfunctions as required. Performs maintenance on facility systems such as house vacuum and air dry. Conducts installation, maintenance and repair of electrical facilities and air conditioning, heating, plumbing, carpentry, locksmith work and fabrication. Performs scheduled maintenance and preventative maintenance as well as maintaining of all logs.

Education: High School Education or equivalent.

Experience: A minimum of two years experience maintaining and repairing basic pneumatic, HVAC, electrical and plumbing, DVM, Oscilloscope and soldering/desoldering equipment

Specialized Experience: n/a

Mechanical-Electrical Technician

Functions: Responsibilities include blue print and electrical schematic reading, assembly maintenance and repair of mechanical and electrical components in structures and standard machinery. Other duties include the service and debugging of machinery, preparation of technical information on machinery, basic machine shop skills (drill press, grinder, etc.), wiring of electrical components to electrical panels and testing new products and applications.

Education: High School Education or equivalent.

Experience: Six years of related experience.

Specialized Experience: n/a

Fabrication Technician Engineer

Functions: Layout and fabrication of electronic and electromechanical assemblies, circuits, cables and wiring harnesses and systems. Layout and fabrication of electronic circuits, assemblies, and systems using solder, wire wrap, and crimping techniques. Population of printed circuit boards. Building cables and wiring harnesses consisting of solder, crimp, and mass termination. Cable types include RF flexible, semi-rigid coaxial, twisted pair, shielded and

multi-wire cables. Perform continuity checks and visual inspections on completed circuits, cables and assemblies. Assembly of mechanical and electromechanical components and sub-assemblies.

Solder certified.

Education: High School Education or equivalent.

Experience: Six years experience with electrical and electronic fabrication procedures.
Experience with surface mount population of printed circuit boards.

Specialized Experience: n/a

Refrigeration/ Utilities Technician

Functions: Operate, maintain, troubleshoot, and repair all mechanical, electrical, electronic, pneumatic and hydraulic equipment in the following areas: HVAC, boilers and steam production, compressed air and drying systems, plant water and booster systems with associated water treatment programs and refrigeration of warehouse, manufacturing processes and production.

Education: High School Education or equivalent.

Experience: Four years of related experience.

Specialized Experience: n/a

Engineering Technician

Functions: Performs moderately complex technical tasks to assist engineers with electronic systems. Performs and documents basic and simple repairs, testing, maintenance, fabrication, inspection, calibration of components and instruments. Tests apparatus and associated specific discipline equipment. Performs basic operational diagnostic testing, troubleshooting and debugging of components, subassemblies and manufacturing systems, processes and equipment to isolate faults and determine remedy and repair. May perform calibration checks on electronic instruments; may completely troubleshoot an electronics system to determine cause and remedy for malfunction. Adjusts and operates basic laboratory/manufacturing equipment. Performs simple process/product tests and audits for conformity to quality and/or regulatory requirements. Conducts basic and simple tests and evaluations. experimental testing and investigates design proposals under operational conditions. Records test procedures and results, numerical and graphical data for engineer review. May troubleshoot electrical, test, mechanical, facilities or hydraulic systems, components, and equipment. May assist more senior technicians and engineers in specific discipline. Performs self-inspections of own work. When applicable, follows standard operating procedures for all tasks. Maintains clean and orderly work area.

Education: High School Education or equivalent.

Experience: Six years of electronic repair experience

Specialized Experience: n/a

RF Test Technician

Functions: Conducts variety of electronic, mechanical and electromechanical tests on electronic systems, subassemblies, and parts to ensure unit functions according to specifications or to determine cause of unit failure by performing the duties.

Reads test schedules, work orders, test manuals, performance specifications, wiring diagrams and schematics to determine testing procedure and equipment to be used.

Calibrates test instruments according to specifications. Connects units to be tested to test equipment such as signal generator, frequency meter or spectrum analyzer.

Reads dials or digital displays that indicate electronic characteristics such as voltage, frequency, distortion, inductance and capacitance. Compares results with specifications and records test data or plots test results on graph. Analyzes test results on defective units to determine cause of failure. Replaces defective wiring and components or records defects on tag attached to unit and returns unit to production department

for repair. Write test procedures. Confers with engineers, technicians, production personnel and others regarding testing procedures and results to resolve

problems. Devises test equipment setup to evaluate performance and operation of customer returned units.

Education: High School Education or equivalent.

Experience: Four years of RF testing and evaluation experience required

Specialized Experience: n/a

Avionics Technician

Functions: Responsible for evaluation and repair of avionics, subassemblies, associated

Aerospace systems. Coordinating with flight crew and maintenance personnel on all avionics and electrical discrepancies. Troubleshoots discrepancies through physical inspection and fault isolation. Responsible for quality control and technical compliance of all electrical components modified and installed in accordance with prescribed maintenance requirements.

Responsibilities include repair of faulty printed circuit boards, maintenance of equipment records. Responsible for outfitting aircraft with multiple modifications, to include but not limited to: GPS, RADAR Warning Transponders, Radios, EMI, NVG and other components as required.

Education: High School Education or equivalent.

Experience: Two years minimum as a practicing licensed Federal Communication Commission (FCC) radioman mechanic or equivalent military position.

Specialized Experience: n/a

Aircraft Mechanic

Functions: Perform scheduled and unscheduled aircraft maintenance. Maintain engine, propeller, and airframe systems. Perform daily and turnaround inspections as required and perform necessary maintenance to correct any malfunctions. Conduct maintenance when required.

Launch and recover aircraft as well as be familiar with general flightline maintenance including fueling/ oil/ hydraulic/ oxygen/ nitrogen/ lavatory servicing.

Education: High School Education or equivalent.

Experience: Five years recent experience maintaining airframe/powerplant systems of general aviation fixed-wing and/or rotor-wing aircraft, including at least two years as a practicing licensed FAA airframe and powerplant mechanic.

Specialized Experience: n/a

Mechanical and Industrial Technician I (Marine systems)

Functions: Performs repair, maintenance, and other duties associated with Over and Above work requirements and assists in accident recovery of marine system assets (see J21). Typical duties include but are not limited to the following: Builds, maintains and operates power production facilities and electrical distribution systems. Performs repairs and maintenance on heavy construction and automotive equipment. Operates, services, troubleshoots, and repairs internal combustion engines used to power ships. Responsible for maintaining and controlling ship's service steam generators. Operates and maintains hydraulic power plants, hoists and cylinders, oxygen generators, atmosphere control equipment, refrigeration systems, diesel engines, pressurized air systems and plumbing systems. Responsible for the operation, routine care and repair of submarine auxiliary and weapon systems. Conducts chemical and quality assurance tests on water and oil. Charged with the operation of turbo-generators used to produce electrical power.

Education: High School Education or equivalent.

Experience: Two years related experience. Must be knowledgeable in all areas of machinery operation and maintenance from internal combustion engines (gas/diesel gas turbines) to environmental support systems (heating/ventilation/air conditioning), hydraulics, basic electricity and areas of hazardous material recovery and control. Requires familiarity with use of computers and computer-based programs.

Specialized Experience: n/a

Mechanical and Industrial Technician II (Marine systems)

Functions: Performs repair, maintenance, and other duties associated with Over and Above work requirements and assists in accident recovery of marine system assets (see J21). Typical duties include but are not limited to the following: Builds, maintains and operates power production facilities and electrical distribution systems. Performs repairs and maintenance on heavy construction and automotive equipment. Operates, services, troubleshoots, and repairs internal combustion engines used to power ships. Responsible for maintaining and controlling ship's service steam generators. Operates and maintains hydraulic power plants, hoists and cylinders, oxygen generators, atmosphere control equipment, refrigeration systems, diesel engines, pressurized air systems and plumbing systems. Responsible for the operation, routine care and repair of submarine auxiliary and weapon systems. Conducts chemical and quality assurance tests on water and oil. Charged with the operation of turbo-generators used to produce electrical power.

Education: High School Education or equivalent.

Experience: Four years related experience.

Specialized Experience: n/a

Mechanical and Industrial Technician III (Marine systems)

Functions: Performs repair, maintenance, and other duties associated with Over and Above work requirements and assists in accident recovery of marine system assets (see J21). Typical duties include but are not limited to the following: Builds, maintains and operates power production facilities and electrical distribution systems. Performs repairs and maintenance on heavy construction and automotive equipment. Operates, services, troubleshoots, and repairs internal combustion engines used to power ships. Responsible for maintaining and controlling ship's service steam generators. Operates and maintains hydraulic power plants, hoists and cylinders, oxygen generators, atmosphere control equipment, refrigeration systems, diesel engines, pressurized air systems and plumbing systems. Responsible for the operation, routine care and repair of submarine auxiliary and weapon systems. Conducts chemical and quality assurance tests on water and oil. Charged with the operation of turbo-generators used to produce electrical power.

Education: High School Education or equivalent.

Experience: Seven years related experience

Specialized Experience: n/a

Mechanical and Industrial Technician I (Aviation systems)

Functions: Performs repair, maintenance, and other duties associated with Over and Above work requirements and assists in accident recovery of air system assets (see J21). Typical duties include but are not limited to the following: Inspects, services, maintains, troubleshoots and repairs aircraft powerplant, powertrain and structural systems. Maintains metal, composite and fiberglass materials; fabricates cables, wire harnesses and structural components. Also performs aircraft corrosion control, nondestructive testing, basic electrical troubleshooting and record keeping. Conducts daily, preflight, postflight and other periodic aircraft inspections. Troubleshoots and repairs numerous complex electronics systems and operates airborne electronic equipment in detecting, locating and tracking submarines. Removes, repairs, fabricates, replaces, modifies and installs aircraft parts and major structural components. Plans, lays out, cuts, bends, forms, shapes, fits, drills, reams, installs fasteners, assembles and installs sheet metal parts and airframe structural members. Works with close tolerance dimensions and various types of fasteners using common hand tools, special instruments and pneumatic tools. Repairs flight control surfaces, engine cowling and performs fuel cell/tank maintenance. Performs organizational, intermediate and depot level structural modification and repair using engineering drawings, safety procedures, military specifications, standards and maintenance manuals in performance of assigned tasks.

Education: High School Education or equivalent.

Experience: Two years related experience

Specialized Experience: n/a

Mechanical and Industrial Technician II (Aviation systems)

Functions: Performs repair, maintenance, and other associated duties over and above work requirements and assists in accident recovery of air system assets. Typical duties include but are not limited to the following: Inspects, services, maintains, troubleshoots and repairs aircraft powerplant, powertrain and structural systems. Maintains metal, composite and fiberglass materials; fabricates cables, wire harnesses and structural components. Also performs aircraft corrosion control, nondestructive testing, basic electrical troubleshooting and record keeping. Conducts daily, preflight, postflight and other periodic aircraft inspections. Trouble-shoots and repairs numerous complex electronics systems and operates airborne electronic equipment in detecting, locating and tracking submarines. Removes, repairs, fabricates, replaces, modifies and installs aircraft parts and major structural components. Plans, lays out, cuts, bends, forms, shapes, fits, drills, reams, installs fasteners, assembles and installs sheet metal parts and airframe structural members. Works with close tolerance dimensions and various types of fasteners using common hand tools, special instruments and pneudraulic tools. Repairs flight control surfaces, engine cowling and performs fuel cell/tank maintenance. Performs organizational, intermediate and depot level structural modification and repair using engineering drawings, safety procedures, military specifications, standards and maintenance manuals in performance of assigned tasks.

Education: High School Education or equivalent.

Experience: Four years related experience

Specialized Experience: n/a

Mechanical and Industrial Technician III (Aviation systems)

Functions: Performs repair, maintenance, and other duties associated with Over and Above work requirements and assists in accident recovery of air system assets (see J21). Typical duties include but are not limited to the following: Inspects, services, maintains, troubleshoots and repairs aircraft powerplant, powertrain and structural systems. Maintains metal, composite and fiberglass materials; fabricates cables, wire harnesses and structural components. Also performs aircraft corrosion control, nondestructive testing, basic electrical troubleshooting and record keeping. Conducts daily, preflight, postflight and other periodic aircraft inspections. Trouble-shoots and repairs numerous complex electronics systems and operates airborne electronic equipment in detecting, locating and tracking submarines. Removes, repairs, fabricates, replaces, modifies and installs aircraft parts and major structural components. Plans, lays out, cuts, bends, forms, shapes, fits, drills, reams, installs fasteners, assembles and installs sheet metal parts and airframe structural members. Works with close tolerance dimensions and various types of fasteners using common hand tools, special instruments and pneudraulic tools. Repairs flight control surfaces, engine cowling and performs fuel cell/tank maintenance. Performs organizational, intermediate and depot level structural modification and repair using engineering drawings, safety procedures, military specifications, standards and maintenance manuals in performance of assigned tasks.

Education: High School Education or equivalent.

Experience: Seven years related experience

Specialized Experience: n/a

Maintenance Mechanic Helper

Functions: Performs in any one of the following capacities as required- Mechanic Helper: Assists and supports in repair work in the maintenance, repair, or modification of heavy construction equipment such as bulldozers, fork-lifts, mobile cranes, backhoes, trucks, tractors, motor vehicles, engines, pumps, etc., and in performing similar services on tractors, small equipment, fork-lifts, small boats and related marine equipment, cranes, pumps, etc. Assignments are limited to simple, basic, non-technical tasks such as fetching and carrying tools and parts, cleaning dirt and grease from parts, loosening screws and nuts, removing belts and housing covers, picking up parts from contractors, etc.

Oiler: Performs operator maintenance of fleet and labor equipment in accordance with established rules and regulations. Wipes oil, grease, or other adhering material from the surfaces of motors and machinery; cleans grease or dirt from parts, chips and paints, etc.

Laboring: Performs various laboring tasks by manually arranging heavy pieces of materials, equipment, supplies, etc. Activities require the use of hand tools and equipment for rough work such as shovels, picks, hatchets, axes, hammers, wheelbarrows, hand trucks, portable engine driven pumps, air hammers, etc.

Dockhand: Performs various docking of floating plant, make-up and break-up of tows and the loading and unloading of materials and supplies by using lines. Places wire and rope slings on heavy objects such as small boats, heavy machinery, pilings, lock gates, etc. to be lifted and/or moved by cranes or floating derrick or secured to mooring.

Chips rust from deck, removes old paint by means of paint remover, putties holes and crevices. Applies prime and finish coats on exterior of boat including hull, superstructure and deck equipment, interior walls, doors, and furniture.

Education: High School Education or equivalent.

Experience: Three or more years related experience

Specialized Experience: n/a

Painter

Functions: Performs the full range of painting, including surface preparation, blending and matching paints, and coating of various surfaces requiring fine finishes and decorative effects. Prepares various surfaces of interior and exterior components of ship, aircraft, Aerospace Ground Equipment (AGE), related parts, components, supports equipment, etc., by mechanically and chemically removing old paint and corrosion, sanding, and applying fillers and base coats. Mixes, thins, blends, matches, and tones coating materials; applies coating materials using brushes, rollers, spray guns and other means.

Education: High School Education or equivalent.

Experience: Three years directly related experience

Specialized Experience: n/a

Electronics Technician I

Functions: Responsible for the maintenance and repair of sophisticated electronics equipment, electrical propulsion equipment, the gyrocompass and related equipment, radio receivers and transmitters, radar, navigation equipment and computer equipment and communications systems.

Education: High School Education or equivalent.

Experience: Three years related experience

Specialized Experience: n/a

Electronics Technician II

Functions: Responsible for the maintenance and repair of sophisticated electronics equipment, electrical propulsion equipment, the gyrocompass and related equipment, radio receivers and transmitters, radar, navigation equipment and computer equipment and communications systems.

Education: High School Education or equivalent.

Experience: Five years related experience

Specialized Experience: n/a

Telecommunications Specialist I

Functions: Installs and maintains various telecommunications equipment ranging from towers, antennas, pole lines and underground cable installations to state-of-the-art computer-based data communications and processing systems, as well as telephone and data switching systems and networks, public address, security and weapons control systems.

Education: High School Education or equivalent.

Experience: Three years related experience

Specialized Experience: n/a

Telecommunications Specialist II

Functions: Installs and maintains various telecommunications equipment ranging from towers, antennas, pole lines and underground cable installations to state-of-the-art computer-based data communications and processing systems, as well as telephone and data switching systems and networks, public address, security and weapons control systems.

Education: High School Education or equivalent.

Experience: Five years related experience

Specialized Experience: n/a

Damage Controlman I

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Functions: Responsible for various repairs and fabrications requiring proficiency in welding and cutting metal. Assigned to repair plumbing systems and fixtures, both on ships and required facilities, maintenance and repair of watertight closures. Perform emergency repairs as required. Must have firefighting training and received classroom theory instruction. Maintain and train with the equipment used for protection, detection, and decontamination in the event of exposure to chemical, biological, or radiological hazards. Shore responsibilities include the performance various construction and building maintenance.

Education: High School Education or equivalent.

Experience: Five years related experience

Specialized Experience: n/a

Damage Controlman II

Functions: Responsible for various repairs and fabrications requiring proficiency in welding and cutting metal. Assigned to repair plumbing systems and fixtures, both on ships and required facilities, maintenance and repair of watertight closures. Perform emergency repairs as required. Must have firefighting training and received classroom theory instruction. Maintain and train with the equipment used for protection, detection, and decontamination in the event of exposure to chemical, biological, or radiological hazards. Shore responsibilities include the performance various construction and building maintenance.

Education: High School Education or equivalent.

Experience: Eight years related experience

Specialized Experience: n/a

2 SECTION 2 LABOR CATEGORY QUANTITY AND PRICING FOR YR1

DEEPWATER T & M PRICING - Contract Year 1				
CLIN #	LABOR CATEGORY	EMERGENT WORK REQUIREMENTS		
0091A	MANAGEMENT/ FINANCE/ ADMIN/ LOGISTICS/ TESTING	HOURS	UNIT PRICE	TOTAL
0091AA	Project Director	500		
0091AB	Project Control Specialist	300		
0091AC	Senior Cost Estimator/Research Analyst	300		
0091AD	Cost Research Analyst			
0091AE	Administrative Specialist/Word Processor	400		
0091AF	Senior Graphics Specialist			
0091AG	Junior Graphics Specialist			
0091AH	Senior Technical Writer/Editor	100		
0091AI	Junior Technical Writer/Editor	100		
0091AJ	Senior Logistics Analyst	500		
0091AK	Logistics Analyst	500		
0091AL	Senior Logistics Manager	500		
0091AM	Reliability and Maintainability Engineer	400		
0091AN	Test Engineer	1000		
0091AO	Junior Test Engineer	400		
0091AP	Test and Evaluation Analyst	1000		
0091B	INDUSTRIAL AND SYSTEM ENGINEERING	HOURS	UNIT PRICE	TOTAL
0091BA	Senior Process Engineer	500		
0091BB	Senior Mechanical Engineer	500		
0091BC	Senior Industrial Engineer	500		
0091BD	Industrial Engineer	800		
0091BE	Manufacturing Systems Engineer	800		
0091BF	Reliability Engineer/Analyst - Marine Engineering/Ships	800		
0091BG	Reliability Engineer/Analyst - Aviation	800		
0091BH	Survivability Engineer	400		
0091BI	CAD Engineer	500		
0091BJ	Human Factors Specialist	400		

0091C		NAVAL ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0091CA	Senior Naval/Ship Systems Engineer	1000		
0091CB	Senior Naval Marine Engineer	1000		
0091CC	Senior Naval Architect	1000		
0091CD	Naval Architect	1000		
0091CE	Marine Propulsion Systems Engineer	1000		
0091CF	Senior Naval/Marine Weapons System Engineer	500		
0091CG	Junior Naval/Marine Weapons System Engineer	500		
0091D		AVIATION ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0091DA	Senior Aviation Engineer	1000		
0091DB	Senior Aerospace Engineer	1000		
0091DC	Avionics Integration Engineer	1000		
0091DD	Aviation Propulsion Engineer	500		
0091DE	Flight Mechanic Engineer	1000		
0091DF	Structures Engineer	500		
0091DG	Aviation Electronics Technician	1000		
0091E		ELECTRONICS		
		HOURS	UNIT PRICE	TOTAL
0091EA	Senior Electrical Engineer	500		
0091EB	Senior Radar/Communications Electronics Engineer	500		
0091EC	Electrical Power Engineer	1000		

0091F SOFTWARE/C4I ENGINEERING		HOURS	UNIT PRICE	TOTAL
0091FA	Senior Software Engineer	500		
0091FB	Software Engineer			
0091FC	Database Management Specialist	500		
0091FD	Senior Communications Software Specialist	500		
0091FE	Communications Software Specialist			
0091FF	Senior Systems Programmer			
0091FG	Systems Programmer	500		
0091FH	Programmer/Analyst			
0091FI	C4I Systems Engineer			
0091FJ	Systems Integration Engineer			
0091FK	Junior Systems Integration Engineer			
0091FL	Senior Telecommunications Electronics Engineer	500		
0091FM	Junior Telecommunications Electronics Engineer			
0091G	ENVIRONMENTAL	HOURS	UNIT PRICE	TOTAL
0091GA	Environmental Systems Engineer	500		
0091GB	Environmental Scientist	500		
0091GC	Senior Environmental Scientist	500		
0091H	TECHNICIAN/ INTEGRATION	HOURS	UNIT PRICE	TOTAL
0091HA	Marine Electrician			
0091HB	Facilities Tech			
0091HC	Mechanical-Electrical Technician			
0091HD	Fabrication Technician Engineer			
0091HE	Refrigeration/ Utilities Technician			
0091HF	Engineering Technician			
0091HG	RF Test Technician			
0091HH	Avionics Technician			

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0091HI	Aircraft Mechanic						
0091HJ	Mechanical and Industrial Technician I (Marine systems)						
0091HK	Mechanical and Industrial Technician II (Marine systems)						
0091HL	Mechanical and Industrial Technician III (Marine systems)						
0091HM	Mechanical and Industrial Technician I (Aviation systems)						
0091HN	Mechanical and Industrial Technician II (Aviation systems)						
0091HO	Mechanical and Industrial Technician III (Aviation systems)						
0091HP	Maintenance Mechanic Helper						
0091HQ	Painter						
0091HR	Electronics Technician I						
0091HS	Electronics Technician II						
0091HT	Telecommunications Specialist I						
0091HU	Telecommunications Specialist II						
0091HV	Damage Controlman I						
0091HW	Damage Controlman II						

3 SECTION 3 LABOR CATEGORY QUANTITY AND PRICING FOR YR2

DEEPWATER T & M PRICING - Contract Year 2				
CLIN #	LABOR CATEGORY	EMERGENT WORK REQUIREMENTS		
0092A	MANAGEMENT/ FINANCE/ ADMIN/ LOGISTICS/ TESTING	HOURS	UNIT PRICE	TOTAL
0092AA	Project Director	500		
0092AB	Project Control Specialist	400		
0092AC	Senior Cost Estimator/Research Analyst	500		
0092AD	Cost Research Analyst	200		
0092AE	Administrative Specialist/Word Processor	500		
0092AF	Senior Graphics Specialist	200		
0092AG	Junior Graphics Specialist	200		
0092AH	Senior Technical Writer/Editor	200		
0092AI	Junior Technical Writer/Editor	200		
0092AJ	Senior Logistics Analyst	500		
0092AK	Logistics Analyst	800		
0092AL	Senior Logistics Manager	600		
0092AM	Reliability and Maintainability Engineer	600		
0092AN	Test Engineer	1000		
0092AO	Junior Test Engineer	600		
0092AP	Test and Evaluation Analyst	1000		
0092B	INDUSTRIAL AND SYSTEM ENGINEERING	HOURS	UNIT PRICE	TOTAL
0092BA	Senior Process Engineer	500		
0092BB	Senior Mechanical Engineer	500		
0092BC	Senior Industrial Engineer	500		
0092BD	Industrial Engineer	800		
0092BE	Manufacturing Systems Engineer	800		
0092BF	Reliability Engineer/Analyst - Marine Engineering/Ships	800		
0092BG	Reliability Engineer/Analyst - Aviation	800		
0092BH	Survivability Engineer	400		
0092BI	CAD Engineer	500		
0092BJ	Human Factors Specialist	400		

0092C		NAVAL ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0092CA	Senior Naval/Ship Systems Engineer	1200		
0092CB	Senior Naval Marine Engineer	1400		
0092CC	Senior Naval Architect	1400		
0092CD	Naval Architect	1200		
0092CE	Marine Propulsion Systems Engineer	1200		
0092CF	Senior Naval/Marine Weapons System Engineer	800		
0092CG	Junior Naval/Marine Weapons System Engineer	800		
0092D		AVIATION ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0092DA	Senior Aviation Engineer	1400		
0092DB	Senior Aerospace Engineer	1400		
0092DC	Avionics Integration Engineer	1200		
0092DD	Aviation Propulsion Engineer	800		
0092DE	Flight Mechanic Engineer	1200		
0092DF	Structures Engineer	800		
0092DG	Aviation Electronics Technician	1200		
0092E		ELECTRONICS		
		HOURS	UNIT PRICE	TOTAL
0092EA	Senior Electrical Engineer	1200		
0092EB	Senior Radar/Communications Electronics Engineer	1400		
0092EC	Electrical Power Engineer	1400		

0092F	SOFTWARE/C4I ENGINEERING	HOURS	UNIT PRICE	TOTAL
0092FA	Senior Software Engineer	600		
0092FB	Software Engineer	600		
0092FC	Database Management Specialist	600		
0092FD	Senior Communications Software Specialist	600		
0092FE	Communications Software Specialist	500		
0092FF	Senior Systems Programmer	500		
0092FG	Systems Programmer	2000		
0092FH	Programmer/Analyst	2000		
0092FI	C4I Systems Engineer	600		
0092FJ	Systems Integration Engineer	500		
0092FK	Junior Systems Integration Engineer	500		
0092FL	Senior Telecommunications Electronics Engineer	500		
0092FM	Junior Telecommunications Electronics Engineer	500		
0092G	ENVIRONMENTAL	HOURS	UNIT PRICE	TOTAL
0092GA	Environmental Systems Engineer	2000		
0092GB	Environmental Scientist	2000		
0092GC	Senior Environmental Scientist	2000		

0092H	TECHNICIAN/ INTEGRATION	HOURS	UNIT PRICE	TOTAL
0092HA	Marine Electrician	500		
0092HB	Facilities Tech	500		
0092HC	Mechanical-Electrical Technician	500		
0092HD	Fabrication Technician Engineer	500		
0092HE	Refrigeration/ Utilities Technician	500		
0092HF	Engineering Technician	500		
0092HG	RF Test Technician	500		
0092HH	Avionics Technician	500		
0092HI	Aircraft Mechanic	500		
0092HJ	Mechanical and Industrial Technician I (Marine systems)	500		
0092HK	Mechanical and Industrial Technician II (Marine systems)	500		
0092HL	Mechanical and Industrial Technician III (Marine systems)	500		
0092HM	Mechanical and Industrial Technician I (Aviation systems)	500		
0092HN	Mechanical and Industrial Technician II (Aviation systems)	500		
0092HO	Mechanical and Industrial Technician III (Aviation systems)	500		
0092HP	Maintenance Mechanic Helper	500		
0092HQ	Painter	500		
0092HR	Electronics Technician I	500		
0092HS	Electronics Technician II	500		
0092HT	Telecommunications Specialist I	500		
0092HU	Telecommunications Specialist II	500		
0092HV	Damage Controlman I	500		
0092HW	Damage Controlman II	500		

4 SECTION 4 LABOR CATEGORY QUANTITY AND PRICING FOR YR3

DEEPWATER T & M PRICING - Contract Year 3				
CLIN #	LABOR CATEGORY	EMERGENT WORK REQUIREMENTS		
0093A	MANAGEMENT/ FINANCE/ ADMIN/ LOGISTICS/ TESTING	HOURS	UNIT PRICE	TOTAL
0093AA	Project Director	500		
0093AB	Project Control Specialist	400		
0093AC	Senior Cost Estimator/Research Analyst	500		
0093AD	Cost Research Analyst	200		
0093AE	Administrative Specialist/Word Processor	500		
0093AF	Senior Graphics Specialist	200		
0093AG	Junior Graphics Specialist	200		
0093AH	Senior Technical Writer/Editor	200		
0093AI	Junior Technical Writer/Editor	200		
0093AJ	Senior Logistics Analyst	500		
0093AK	Logistics Analyst	800		
0093AL	Senior Logistics Manager	600		
0093AM	Reliability and Maintainability Engineer	600		
0093AN	Test Engineer	1000		
0093AO	Junior Test Engineer	600		
0093AP	Test and Evaluation Analyst	1000		
0093B	INDUSTRIAL AND SYSTEM ENGINEERING	HOURS	UNIT PRICE	TOTAL
0093BA	Senior Process Engineer	500		
0093BB	Senior Mechanical Engineer	500		
0093BC	Senior Industrial Engineer	500		
0093BD	Industrial Engineer	800		
0093BE	Manufacturing Systems Engineer	800		
0093BF	Reliability Engineer/Analyst - Marine Engineering/Ships	800		
0093BG	Reliability Engineer/Analyst - Aviation	800		
0093BH	Survivability Engineer	400		
0093BI	CAD Engineer	500		
0093B	Human Factors Specialist	400		

0093C		NAVAL ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0093CA	Senior Naval/Ship Systems Engineer	1200		
0093CB	Senior Naval Marine Engineer	1400		
0093CC	Senior Naval Architect	1400		
0093CD	Naval Architect	1200		
0093CE	Marine Propulsion Systems Engineer	1200		
0093CF	Senior Naval/Marine Weapons System Engineer	800		
0093CG	Junior Naval/Marine Weapons System Engineer	800		
0093D		AVIATION ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0093DA	Senior Aviation Engineer	1400		
0093DB	Senior Aerospace Engineer	1400		
0093DC	Avionics Integration Engineer	1200		
0093DD	Aviation Propulsion Engineer	800		
0093DE	Flight Mechanic Engineer	1200		
0093DF	Structures Engineer	800		
0093DG	Aviation Electronics Technician	1200		
0093E		ELECTRONICS		
		HOURS	UNIT PRICE	TOTAL
0093EA	Senior Electrical Engineer	1200		
0093EB	Senior Radar/Communications Electronics Engineer	1400		
0093EC	Electrical Power Engineer	1400		

0093F	SOFTWARE/C4I ENGINEERING	HOURS	UNIT PRICE	TOTAL
0093FA	Senior Software Engineer	600		
00953B	Software Engineer	600		
0093FC	Database Management Specialist	600		
0093FD	Senior Communications Software Specialist	600		
0093FE	Communications Software Specialist	500		
0093FF	Senior Systems Programmer	500		
0093FG	Systems Programmer	2000		
0093FH	Programmer/Analyst	2000		
0093FI	C4I Systems Engineer	600		
0093FJ	Systems Integration Engineer	500		
0093FK	Junior Systems Integration Engineer	500		
0093FL	Senior Telecommunications Electronics Engineer	500		
0093FM	Junior Telecommunications Electronics Engineer	500		
0093G	ENVIRONMENTAL	HOURS	UNIT PRICE	TOTAL
0093G	Environmental Systems Engineer	2000		
0093GB	Environmental Scientist	2000		
0093GC	Senior Environmental Scientist	2000		

0093H	TECHNICIAN/ INTEGRATION	HOURS	UNIT PRICE	TOTAL
0093HA	Marine Electrician	1000		
0093HB	Facilities Tech	1000		
0093HC	Mechanical-Electrical Technician	1000		
0093HD	Fabrication Technician Engineer	1000		
0093HE	Refrigeration/ Utilities Technician	1000		
0093HF	Engineering Technician	1000		
0093HG	RF Test Technician	1000		
0093HH	Avionics Technician	1000		
0093HI	Aircraft Mechanic	2000		
0093HJ	Mechanical and Industrial Technician I (Marine systems)	3000		
0093HK	Mechanical and Industrial Technician II (Marine systems)	3000		
0093HL	Mechanical and Industrial Technician III (Marine systems)	3000		
0093HM	Mechanical and Industrial Technician I (Aviation systems)	3000		
0093HN	Mechanical and Industrial Technician II (Aviation systems)	3000		
0093HO	Mechanical and Industrial Technician III (Aviation systems)	3000		
0093HP	Maintenance Mechanic Helper	6000		
0093HQ	Painter	4000		
0093HR	Electronics Technician I	2000		
0093HS	Electronics Technician II	2000		
0093HT	Telecommunications Specialist I	2000		
0093HU	Telecommunications Specialist II	2000		
0093HV	Damage Controlman I	2000		
0093HW	Damage Controlman II	2000		

5 SECTION 5 LABOR CATEGORY QUANTITY AND PRICING FOR YR4

DEEPWATER T & M PRICING - Contract Year 4				
CLIN #	LABOR CATEGORY	EMERGENT WORK REQUIREMENTS		
0094A	MANAGEMENT/ FINANCE/ ADMIN/ LOGISTICS/ TESTING	HOURS	UNIT PRICE	TOTAL
0094AA	Project Director	500		
0094AB	Project Control Specialist	400		
0094AC	Senior Cost Estimator/Research Analyst	500		
0094AD	Cost Research Analyst	200		
0094AE	Administrative Specialist/Word Processor	500		
0094AF	Senior Graphics Specialist	200		
0094AG	Junior Graphics Specialist	200		
0094AH	Senior Technical Writer/Editor	200		
0094AI	Junior Technical Writer/Editor	200		
0094AJ	Senior Logistics Analyst	500		
0094AK	Logistics Analyst	800		
0094AL	Senior Logistics Manager	600		
0094AM	Reliability and Maintainability Engineer	600		
0094AN	Test Engineer	1000		
0094AO	Junior Test Engineer	600		
0094AP	Test and Evaluation Analyst	1000		
0094B	INDUSTRIAL AND SYSTEM ENGINEERING	HOURS	UNIT PRICE	TOTAL
0094BA	Senior Process Engineer	500		
0094BB	Senior Mechanical Engineer	500		
0094BC	Senior Industrial Engineer	500		
0094BD	Industrial Engineer	800		
0094BE	Manufacturing Systems Engineer	800		
0094BF	Reliability Engineer/Analyst - Marine Engineering/Ships	800		
0094BG	Reliability Engineer/Analyst - Aviation	800		
0094BH	Survivability Engineer	400		
0094BI	CAD Engineer	500		
0014BJ	Human Factors Specialist	400		

0094C		NAVAL ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0094CA	Senior Naval/Ship Systems Engineer	1200		
0094CB	Senior Naval Marine Engineer	1400		
0094CC	Senior Naval Architect	1400		
0094CD	Naval Architect	1200		
0094CE	Marine Propulsion Systems Engineer	1200		
0094CF	Senior Naval/Marine Weapons System Engineer	800		
0094CG	Junior Naval/Marine Weapons System Engineer	800		
0094D		AVIATION ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0094DA	Senior Aviation Engineer	1400		
0094DB	Senior Aerospace Engineer	1400		
0094DC	Avionics Integration Engineer	1200		
0094DD	Aviation Propulsion Engineer	800		
0094DE	Flight Mechanic Engineer	1200		
0094DF	Structures Engineer	800		
0094DG	Aviation Electronics Technician	1200		
0094E		ELECTRONICS		
		HOURS	UNIT PRICE	TOTAL
0094EA	Senior Electrical Engineer	1200		
0094EB	Senior Radar/Communications Electronics Engineer	1400		
0094EC	Electrical Power Engineer	1400		

0094F	SOFTWARE/C4I ENGINEERING	HOURS	UNIT PRICE	TOTAL
0094FA	Senior Software Engineer	600		
0094FB	Software Engineer	600		
0094FC	Database Management Specialist	600		
0094FD	Senior Communications Software Specialist	600		
0094FE	Communications Software Specialist	500		
0094FF	Senior Systems Programmer	500		
0094FG	Systems Programmer	2000		
0094FH	Programmer/Analyst	2000		
0094FI	C4I Systems Engineer	600		
0094FJ	Systems Integration Engineer	500		
0094FK	Junior Systems Integration Engineer	500		
0094FL	Senior Telecommunications Electronics Engineer	500		
0094FM	Junior Telecommunications Electronics Engineer	500		
0094G	ENVIRONMENTAL	HOURS	UNIT PRICE	TOTAL
0094GA	Environmental Systems Engineer	2000		
0094GB	Environmental Scientist	2000		
0094GC	Senior Environmental Scientist	2000		

0094H	TECHNICIAN/ INTEGRATION	HOURS	UNIT PRICE	TOTAL
0094HA	Marine Electrician	1000		
0094HB	Facilities Tech	1000		
0094HC	Mechanical-Electrical Technician	1000		
0094HD	Fabrication Technician Engineer	1000		
0094HE	Refrigeration/ Utilities Technician	1000		
0094HF	Engineering Technician	1000		
0094HG	RF Test Technician	1000		
0094HH	Avionics Technician	1000		
0094HI	Aircraft Mechanic	2000		
0094HJ	Mechanical and Industrial Technician I (Marine systems)	3000		
0094HK	Mechanical and Industrial Technician II (Marine systems)	3000		
0094HL	Mechanical and Industrial Technician III (Marine systems)	3000		
0094HM	Mechanical and Industrial Technician I (Aviation systems)	3000		
0094HN	Mechanical and Industrial Technician II (Aviation systems)	3000		
0094HO	Mechanical and Industrial Technician III (Aviation systems)	3000		
0094HP	Maintenance Mechanic Helper	6000		
0094HQ	Painter	4000		
0094HR	Electronics Technician I	2000		
0094HS	Electronics Technician II	2000		
0094HT	Telecommunications Specialist I	2000		
0094HU	Telecommunications Specialist II	2000		
0094HV	Damage Controlman I	2000		
0094HW	Damage Controlman II	2000		

6 SECTION 6 LABOR CATEGORY QUANTITY AND PRICING FOR YR5

DEEPWATER T & M PRICING - Contract Year 5				
CLIN #	LABOR CATEGORY	EMERGENT WORK REQUIREMENTS		
0095A	MANAGEMENT/ FINANCE/ ADMIN/ LOGISTICS/ TESTING	HOURS	UNIT PRICE	TOTAL
0095AA	Project Director	500		
0095AB	Project Control Specialist	400		
0095AC	Senior Cost Estimator/Research Analyst	500		
0095AD	Cost Research Analyst	200		
0095AE	Administrative Specialist/Word Processor	500		
0095AF	Senior Graphics Specialist	200		
0095AG	Junior Graphics Specialist	200		
0095AH	Senior Technical Writer/Editor	200		
0095AI	Junior Technical Writer/Editor	200		
0095AJ	Senior Logistics Analyst	500		
0095AK	Logistics Analyst	800		
0095AL	Senior Logistics Manager	600		
0095AM	Reliability and Maintainability Engineer	600		
0095AN	Test Engineer	1000		
0095AO	Junior Test Engineer	600		
0095AP	Test and Evaluation Analyst	1000		
0095B	INDUSTRIAL AND SYSTEM ENGINEERING	HOURS	UNIT PRICE	TOTAL
0095BA	Senior Process Engineer	500		
0095BB	Senior Mechanical Engineer	500		
0095BC	Senior Industrial Engineer	500		
0095BD	Industrial Engineer	800		
0095BE	Manufacturing Systems Engineer	800		
0095BF	Reliability Engineer/Analyst - Marine Engineering/Ships	800		
0095BG	Reliability Engineer/Analyst - Aviation	800		
0095BH	Survivability Engineer	400		
0095BI	CAD Engineer	500		
0095BJ	Human Factors Specialist	400		

0095C		NAVAL ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0095CA	Senior Naval/Ship Systems Engineer	1200		
0095CB	Senior Naval Marine Engineer	1400		
0095CC	Senior Naval Architect	1400		
0095CD	Naval Architect	1200		
0095CE	Marine Propulsion Systems Engineer	1200		
0095CF	Senior Naval/Marine Weapons System Engineer	800		
0095CG	Junior Naval/Marine Weapons System Engineer	800		
0095D		AVIATION ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0095DA	Senior Aviation Engineer	1400		
0095DB	Senior Aerospace Engineer	1400		
0095DC	Avionics Integration Engineer	1200		
0095DD	Aviation Propulsion Engineer	800		
0095DE	Flight Mechanic Engineer	1200		
0095DF	Structures Engineer	800		
0095DG	Aviation Electronics Technician	1200		
0095E		ELECTRONICS		
		HOURS	UNIT PRICE	TOTAL
0095EA	Senior Electrical Engineer	1200		
0095EB	Senior Radar/Communications Electronics Engineer	1400		
0095EC	Electrical Power Engineer	1400		

0095F	SOFTWARE/C4I ENGINEERING	HOURS	UNIT PRICE	TOTAL
0095FA	Senior Software Engineer	600		
0095FB	Software Engineer	600		
0095FC	Database Management Specialist	600		
0095FD	Senior Communications Software Specialist	600		
0095FE	Communications Software Specialist	500		
0095FF	Senior Systems Programmer	500		
0095FG	Systems Programmer	2000		
0095FH	Programmer/Analyst	2000		
0095FI	C4I Systems Engineer	600		
0095FJ	Systems Integration Engineer	500		
0095FK	Junior Systems Integration Engineer	500		
0095FL	Senior Telecommunications Electronics Engineer	500		
0095FM	Junior Telecommunications Electronics Engineer	500		
0095G	ENVIRONMENTAL	HOURS	UNIT PRICE	TOTAL
0095GA	Environmental Systems Engineer	2000		
0095GB	Environmental Scientist	2000		
0095GC	Senior Environmental Scientist	2000		

0095H	TECHNICIAN/ INTEGRATION	HOURS	UNIT PRICE	TOTAL
0095HA	Marine Electrician	1000		
0095HB	Facilities Tech	1000		
0095HC	Mechanical-Electrical Technician	1000		
0095HD	Fabrication Technician Engineer	1000		
0095HE	Refrigeration/ Utilities Technician	1000		
0095HF	Engineering Technician	1000		
0095HG	RF Test Technician	1000		
0095HH	Avionics Technician	1000		
0095HI	Aircraft Mechanic	2000		
0095HJ	Mechanical and Industrial Technician I (Marine systems)	3000		
0095HK	Mechanical and Industrial Technician II (Marine systems)	3000		
0095HL	Mechanical and Industrial Technician III (Marine systems)	3000		
0095HM	Mechanical and Industrial Technician I (Aviation systems)	3000		
0095HN	Mechanical and Industrial Technician II (Aviation systems)	3000		
0095HO	Mechanical and Industrial Technician III (Aviation systems)	3000		
0095HP	Maintenance Mechanic Helper	6000		
0095HQ	Painter	4000		
0095HR	Electronics Technician I	2000		
0095HS	Electronics Technician II	2000		
0095HT	Telecommunications Specialist I	2000		
0095HU	Telecommunications Specialist II	2000		
0095HV	Damage Controlman I	2000		
0095HW	Damage Controlman II	2000		

7 SECTION 7 LABOR CATEGORY QUANTITY AND PRICING FOR AW1

DEEPWATER T & M PRICING Award Term 1 - Years 06-10				
CLIN #	LABOR CATEGORY	EMERGENT WORK REQUIREMENTS		
0190A	MANAGEMENT/ FINANCE/ ADMIN/ LOGISTICS/ TESTING	HOURS	UNIT PRICE	TOTAL
0190AA	Project Director	500		
0190AB	Project Control Specialist	400		
0190AC	Senior Cost Estimator/Research Analyst	500		
0190AD	Cost Research Analyst	200		
0190AE	Administrative Specialist/Word Processor	500		
0190AF	Senior Graphics Specialist	200		
0190AG	Junior Graphics Specialist	200		
0190AH	Senior Technical Writer/Editor	200		
0190AI	Junior Technical Writer/Editor	200		
0190AJ	Senior Logistics Analyst	500		
0190AK	Logistics Analyst	800		
0190AL	Senior Logistics Manager	600		
0190AM	Reliability and Maintainability Engineer	600		
0190AN	Test Engineer	1000		
0190AO	Junior Test Engineer	600		
0190AP	Test and Evaluation Analyst	1000		
0190B	INDUSTRIAL AND SYSTEM ENGINEERING	HOURS	UNIT PRICE	TOTAL
0190BA	Senior Process Engineer	500		
0190BB	Senior Mechanical Engineer	500		
0190BC	Senior Industrial Engineer	500		
0190BD	Industrial Engineer	800		
0190BE	Manufacturing Systems Engineer	800		
0190BF	Reliability Engineer/Analyst - Marine Engineering/Ships	800		
0190BG	Reliability Engineer/Analyst - Aviation	800		
0190BH	Survivability Engineer	400		
0190BI	CAD Engineer	500		
0190BJ	Human Factors Specialist	400		

*** NOTE***
 Hour estimates represent a 'per year' projection for each of the award term years NOT a total for the entire award term

0190C		NAVAL ENGINEERING		HOURS	UNIT PRICE	TOTAL
0190CA	Senior Naval/Ship Systems Engineer			1200		
0190CB	Senior Naval Marine Engineer			1400		
0190CC	Senior Naval Architect			1400		
0190CD	Naval Architect			1200		
0190CE	Marine Propulsion Systems Engineer			1200		
0190CF	Senior Naval/Marine Weapons System Engineer			800		
0190CG	Junior Naval/Marine Weapons System Engineer			800		
0190D		AVIATION ENGINEERING		HOURS	UNIT PRICE	TOTAL
0190DA	Senior Aviation Engineer			1400		
0190DB	Senior Aerospace Engineer			1400		
0190DC	Avionics Integration Engineer			1200		
0190DD	Aviation Propulsion Engineer			800		
0190DE	Flight Mechanic Engineer			1200		
0190DF	Structures Engineer			800		
0190DG	Aviation Electronics Technician			1200		
0190E		ELECTRONICS		HOURS	UNIT PRICE	TOTAL
0190EA	Senior Electrical Engineer			1200		
0190EB	Senior Radar/Communications Electronics Engineer			1400		
0190EC	Electrical Power Engineer			1400		

0190F	SOFTWARE/C4I ENGINEERING	HOURS	UNIT PRICE	TOTAL
0190FA	Senior Software Engineer	600		
0190FB	Software Engineer	600		
0190FC	Database Management Specialist	600		
0190FD	Senior Communications Software Specialist	600		
0190FE	Communications Software Specialist	500		
0190FF	Senior Systems Programmer	500		
0190FG	Systems Programmer	2000		
0190FH	Programmer/Analyst	2000		
0190FI	C4I Systems Engineer	600		
0190FJ	Systems Integration Engineer	500		
0190FK	Junior Systems Integration Engineer	500		
0190FL	Senior Telecommunications Electronics Engineer	500		
0190FM	Junior Telecommunications Electronics Engineer	500		
0190G	ENVIRONMENTAL	HOURS	UNIT PRICE	TOTAL
0190GA	Environmental Systems Engineer	2000		
0190GB	Environmental Scientist	2000		
0190GC	Senior Environmental Scientist	2000		

H	TECHNICIAN/ INTEGRATION	HOURS	UNIT PRICE	TOTAL
0190HA	Marine Electrician	1000		
0190HB	Facilities Tech	1000		
0190HC	Mechanical-Electrical Technician	1000		
0190HD	Fabrication Technician Engineer	1000		
0190HE	Refrigeration/ Utilities Technician	1000		
0190HF	Engineering Technician	1000		
0190HG	RF Test Technician	1000		
0190HH	Avionics Technician	1000		
0190HI	Aircraft Mechanic	2000		
0190HJ	Mechanical and Industrial Technician I (Marine systems)	3000		
0190HK	Mechanical and Industrial Technician II (Marine systems)	3000		
0190HL	Mechanical and Industrial Technician III (Marine systems)	3000		
0190HM	Mechanical and Industrial Technician I (Aviation systems)	3000		
0190HN	Mechanical and Industrial Technician II (Aviation systems)	3000		
0190HO	Mechanical and Industrial Technician III (Aviation systems)	3000		
0190HP	Maintenance Mechanic Helper	6000		
0190HQ	Painter	4000		
0190HR	Electronics Technician I	2000		
0190HS	Electronics Technician II	2000		
0190HT	Telecommunications Specialist I	2000		
0190HU	Telecommunications Specialist II	2000		
0190HV	Damage Controlman I	2000		
0190HW	Damage Controlman II	2000		

8 SECTION 8 LABOR CATEGORY QUANTITY AND PRICING FOR AW2

DEEPWATER T & M PRICING Award Term 2 - Years 11-15				
CLIN #	LABOR CATEGORY	EMERGENT WORK REQUIREMENTS		
0290A	MANAGEMENT/ FINANCE/ ADMIN/ LOGISTICS/ TESTING	HOURS	UNIT PRICE	TOTAL
0290AA	Project Director	500		
0290AB	Project Control Specialist	400		
0290AC	Senior Cost Estimator/Research Analyst	500		
0290AD	Cost Research Analyst	200		
0290AE	Administrative Specialist/Word Processor	500		
0290AF	Senior Graphics Specialist	200		
0290AG	Junior Graphics Specialist	200		
0290AH	Senior Technical Writer/Editor	200		
0290AI	Junior Technical Writer/Editor	200		
0290AJ	Senior Logistics Analyst	500		
0290AK	Logistics Analyst	800		
0290AL	Senior Logistics Manager	600		
0290AM	Reliability and Maintainability Engineer	600		
0290AN	Test Engineer	1000		
0290AO	Junior Test Engineer	600		
0290AP	Test and Evaluation Analyst	1000		
0290B	INDUSTRIAL AND SYSTEM ENGINEERING	HOURS	UNIT PRICE	TOTAL
0290BA	Senior Process Engineer	500		
0290BB	Senior Mechanical Engineer	500		
0290BC	Senior Industrial Engineer	500		
0290BD	Industrial Engineer	800		
0290BE	Manufacturing Systems Engineer	800		
0290BF	Reliability Engineer/Analyst - Marine Engineering/Ships	800		
0290BG	Reliability Engineer/Analyst - Aviation	800		
0290BH	Survivability Engineer	400		
0290BI	CAD Engineer	500		
0290BJ	Human Factors Specialist	400		

*** NOTE***
 Hour estimates represent a 'per year' projection for each of the award term years NOT a total for the entire award term

0290C		NAVAL ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0290CA	Senior Naval/Ship Systems Engineer	1200		
0290CB	Senior Naval Marine Engineer	1400		
0290CC	Senior Naval Architect	1400		
0290CD	Naval Architect	1200		
0290CE	Marine Propulsion Systems Engineer	1200		
0290CF	Senior Naval/Marine Weapons System Engineer	800		
0290CG	Junior Naval/Marine Weapons System Engineer	800		
0290D		AVIATION ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0290DA	Senior Aviation Engineer	1400		
0290DB	Senior Aerospace Engineer	1400		
0290DC	Avionics Integration Engineer	1200		
0290DD	Aviation Propulsion Engineer	800		
0290DE	Flight Mechanic Engineer	1200		
0290DF	Structures Engineer	800		
0290DG	Aviation Electronics Technician	1200		
0290E		ELECTRONICS		
		HOURS	UNIT PRICE	TOTAL
0290EA	Senior Electrical Engineer	1200		
0290EB	Senior Radar/Communications Electronics Engineer	1400		
0290EC	Electrical Power Engineer	1400		

0290F	SOFTWARE/C4I ENGINEERING	HOURS	UNIT PRICE	TOTAL
0290FA	Senior Software Engineer	600		
0290FB	Software Engineer	600		
0290FC	Database Management Specialist	600		
0290FD	Senior Communications Software Specialist	600		
0290FE	Communications Software Specialist	500		
0290FF	Senior Systems Programmer	500		
0290FG	Systems Programmer	2000		
0290FH	Programmer/Analyst	2000		
0290FI	C4I Systems Engineer	600		
0290FJ	Systems Integration Engineer	500		
0290FK	Junior Systems Integration Engineer	500		
0290FL	Senior Telecommunications Electronics Engineer	500		
0290FM	Junior Telecommunications Electronics Engineer	500		
0290G	ENVIRONMENTAL	HOURS	UNIT PRICE	TOTAL
0290GA	Environmental Systems Engineer	2000		
0290GB	Environmental Scientist	2000		
0290GC	Senior Environmental Scientist	2000		

0290H	TECHNICIAN/ INTEGRATION	HOURS	UNIT PRICE	TOTAL
0290HA	Marine Electrician	1000		
0290HB	Facilities Tech	1000		
0290HC	Mechanical-Electrical Technician	1000		
0290HD	Fabrication Technician Engineer	1000		
0290HE	Refrigeration/ Utilities Technician	1000		
0290HF	Engineering Technician	1000		
0290HG	RF Test Technician	1000		
0290HH	Avionics Technician	1000		
0290HI	Aircraft Mechanic	2000		
0290HJ	Mechanical and Industrial Technician I (Marine systems)	3000		
0290HK	Mechanical and Industrial Technician II (Marine systems)	3000		
0290HL	Mechanical and Industrial Technician III (Marine systems)	3000		
0290HM	Mechanical and Industrial Technician I (Aviation systems)	3000		
0290HN	Mechanical and Industrial Technician II (Aviation systems)	3000		
0290HO	Mechanical and Industrial Technician III (Aviation systems)	3000		
0290HP	Maintenance Mechanic Helper	6000		
0290HQ	Painter	4000		
0290HR	Electronics Technician I	2000		
0290HS	Electronics Technician II	2000		
0290HT	Telecommunications Specialist I	2000		
0290HU	Telecommunications Specialist II	2000		
0290HV	Damage Controlman I	2000		
0290HW	Damage Controlman II	2000		

9 SECTION 9 LABOR CATEGORY QUANTITY AND PRICING FOR AW3

DEEPWATER T & M PRICING Award Term 3 - Years 16-20				
CLIN #	LABOR CATEGORY	EMERGENT WORK REQUIREMENTS		
0390A	MANAGEMENT/ FINANCE/ ADMIN/ LOGISTICS/ TESTING	HOURS	UNIT PRICE	TOTAL
0390AA	Project Director	500		
0390AB	Project Control Specialist	400	* NOTE* Hour estimates represent a 'per year' projection for each of the award term years NOT a total for the entire award term	
0390AC	Senior Cost Estimator/Research Analyst	500		
0390AD	Cost Research Analyst	200		
0390AE	Administrative Specialist/Word Processor	500		
0390AF	Senior Graphics Specialist	200		
0390AG	Junior Graphics Specialist	200		
0390AH	Senior Technical Writer/Editor	200		
0390AI	Junior Technical Writer/Editor	200		
0390AJ	Senior Logistics Analyst	500		
0390AK	Logistics Analyst	800		
0390AL	Senior Logistics Manager	600		
0390AM	Reliability and Maintainability Engineer	600		
0390AN	Test Engineer	1000		
0390AO	Junior Test Engineer	600		
0390AP	Test and Evaluation Analyst	1000		
0390B	INDUSTRIAL AND SYSTEM ENGINEERING	HOURS	UNIT PRICE	TOTAL
0390BA	Senior Process Engineer	500		
0390BB	Senior Mechanical Engineer	500		
0390BC	Senior Industrial Engineer	500		
0390BD	Industrial Engineer	800		
0390BE	Manufacturing Systems Engineer	800		
0390BF	Reliability Engineer/Analyst - Marine Engineering/Ships	800		
0390BG	Reliability Engineer/Analyst - Aviation	800		
0390BH	Survivability Engineer	400		
0390BI	CAD Engineer	500		
0390BJ	Human Factors Specialist	400		

0390C		NAVAL ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0390CA	Senior Naval/Ship Systems Engineer	1200		
0390CB	Senior Naval Marine Engineer	1400		
0390CC	Senior Naval Architect	1400		
0390CD	Naval Architect	1200		
0390CE	Marine Propulsion Systems Engineer	1200		
0390CF	Senior Naval/Marine Weapons System Engineer	800		
0390CG	Junior Naval/Marine Weapons System Engineer	800		
0390D		AVIATION ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0390DA	Senior Aviation Engineer	1400		
0390DB	Senior Aerospace Engineer	1400		
0390DC	Avionics Integration Engineer	1200		
0390DD	Aviation Propulsion Engineer	800		
0390DE	Flight Mechanic Engineer	1200		
0390DF	Structures Engineer	800		
0390DG	Aviation Electronics Technician	1200		
0390E		ELECTRONICS		
		HOURS	UNIT PRICE	TOTAL
0390EA	Senior Electrical Engineer	1200		
0390EB	Senior Radar/Communications Electronics Engineer	1400		
0390EC	Electrical Power Engineer	1400		

0390F	SOFTWARE/C4I ENGINEERING	HOURS	UNIT PRICE	TOTAL
0390FA	Senior Software Engineer	600		
0390FB	Software Engineer	600		
0390FC	Database Management Specialist	600		
0390FD	Senior Communications Software Specialist	600		
0390FE	Communications Software Specialist	500		
0390FF	Senior Systems Programmer	500		
0390FG	Systems Programmer	2000		
0390FH	Programmer/Analyst	2000		
0390FI	C4I Systems Engineer	600		
0390FJ	Systems Integration Engineer	500		
0390FK	Junior Systems Integration Engineer	500		
0390FL	Senior Telecommunications Electronics Engineer	500		
0390FM	Junior Telecommunications Electronics Engineer	500		
0390G	ENVIRONMENTAL	HOURS	UNIT PRICE	TOTAL
0390GA	Environmental Systems Engineer	2000		
0390GB	Environmental Scientist	2000		
0390GC	Senior Environmental Scientist	2000		

0390H	TECHNICIAN/ INTEGRATION	HOURS	UNIT PRICE	TOTAL
0390HA	Marine Electrician	1000		
0390HB	Facilities Tech	1000		
0390HC	Mechanical-Electrical Technician	1000		
0390HD	Fabrication Technician Engineer	1000		
0390HE	Refrigeration/ Utilities Technician	1000		
0390HF	Engineering Technician	1000		
0390HG	RF Test Technician	1000		
0390HH	Avionics Technician	1000		
0390HI	Aircraft Mechanic	2000		
0397HJ	Mechanical and Industrial Technician I (Marine systems)	3000		
0397HK	Mechanical and Industrial Technician II (Marine systems)	3000		
0390HL	Mechanical and Industrial Technician III (Marine systems)	3000		
0390HM	Mechanical and Industrial Technician I (Aviation systems)	3000		
0390HN	Mechanical and Industrial Technician II (Aviation systems)	3000		
0390HO	Mechanical and Industrial Technician III (Aviation systems)	3000		
0390HP	Maintenance Mechanic Helper	6000		
0390HQ	Painter	4000		
0390HR	Electronics Technician I	2000		
0390HS	Electronics Technician II	2000		
0390HT	Telecommunications Specialist I	2000		
0390HU	Telecommunications Specialist II	2000		
0390HV	Damage Controlman I	2000		
0390HW	Damage Controlman II	2000		

10 SECTION 10 LABOR CATEGORY QUANTITY AND PRICING FOR AW4

DEEPWATER T & M PRICING Award Term 4 - Years 21-25				
CLIN #	LABOR CATEGORY	EMERGENT WORK REQUIREMENTS		
0490A	MANAGEMENT/ FINANCE/ ADMIN/ LOGISTICS/ TESTING	HOURS	UNIT PRICE	TOTAL
0490AA	Project Director	500		
0490AB	Project Control Specialist	400	* NOTE* Hour estimates represent a 'per year' projection for each of the award term years NOT a total for the entire award term	
0490AC	Senior Cost Estimator/Research Analyst	500		
0490AD	Cost Research Analyst	200		
0490AE	Administrative Specialist/Word Processor	500		
0490AF	Senior Graphics Specialist	200		
0490AG	Junior Graphics Specialist	200		
0490AH	Senior Technical Writer/Editor	200		
0490AI	Junior Technical Writer/Editor	200		
0490AJ	Senior Logistics Analyst	500		
0490AK	Logistics Analyst	800		
0490AL	Senior Logistics Manager	600		
0490AM	Reliability and Maintainability Engineer	600		
0490AN	Test Engineer	1000		
0490AO	Junior Test Engineer	600		
0490AP	Test and Evaluation Analyst	1000		
0491B	INDUSTRIAL AND SYSTEM ENGINEERING	HOURS	UNIT PRICE	TOTAL
049BA	Senior Process Engineer	500		
0490BB	Senior Mechanical Engineer	500		
0490BC	Senior Industrial Engineer	500		
0490BD	Industrial Engineer	800		
0490BE	Manufacturing Systems Engineer	800		
0490BF	Reliability Engineer/Analyst - Marine Engineering/Ships	800		
0490BG	Reliability Engineer/Analyst - Aviation	800		
0490BH	Survivability Engineer	400		
0490BI	CAD Engineer	500		
0490BJ	Human Factors Specialist	400		

0490C		NAVAL ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0490CA	Senior Naval/Ship Systems Engineer	1200		
0490CB	Senior Naval Marine Engineer	1400		
0490CC	Senior Naval Architect	1400		
0490CD	Naval Architect	1200		
0490CE	Marine Propulsion Systems Engineer	1200		
0190CF	Senior Naval/Marine Weapons System Engineer	800		
0490CG	Junior Naval/Marine Weapons System Engineer	800		
0490D		AVIATION ENGINEERING		
		HOURS	UNIT PRICE	TOTAL
0490DA	Senior Aviation Engineer	1400		
0490DB	Senior Aerospace Engineer	1400		
0490DC	Avionics Integration Engineer	1200		
0490DD	Aviation Propulsion Engineer	800		
0490DE	Flight Mechanic Engineer	1200		
0490DF	Structures Engineer	800		
0490DG	Aviation Electronics Technician	1200		
0490E		ELECTRONICS		
		HOURS	UNIT PRICE	TOTAL
0490EA	Senior Electrical Engineer	1200		
0490EB	Senior Radar/Communications Electronics Engineer	1400		
0490EC	Electrical Power Engineer	1400		

0490F	SOFTWARE/C4I ENGINEERING	HOURS	UNIT PRICE	TOTAL
0490FA	Senior Software Engineer	600		
0490FB	Software Engineer	600		
0490FC	Database Management Specialist	600		
0490FD	Senior Communications Software Specialist	600		
0490FE	Communications Software Specialist	500		
0490FF	Senior Systems Programmer	500		
0490FG	Systems Programmer	2000		
0490FH	Programmer/Analyst	2000		
0490FI	C4I Systems Engineer	600		
0490FJ	Systems Integration Engineer	500		
0490FK	Junior Systems Integration Engineer	500		
0490FL	Senior Telecommunications Electronics Engineer	500		
0490FM	Junior Telecommunications Electronics Engineer	500		
0490G	ENVIRONMENTAL	HOURS	UNIT PRICE	TOTAL
0490GA	Environmental Systems Engineer	2000		
0490GB	Environmental Scientist	2000		
0490GC	Senior Environmental Scientist	2000		

0490H	TECHNICIAN/ INTEGRATION	HOURS	UNIT PRICE	TOTAL
0490HA	Marine Electrician	1000		
0490HB	Facilities Tech	1000		
0490HC	Mechanical-Electrical Technician	1000		
0490HD	Fabrication Technician Engineer	1000		
0490HE	Refrigeration/ Utilities Technician	1000		
0490HF	Engineering Technician	1000		
0490HG	RF Test Technician	1000		
0490HH	Avionics Technician	1000		
0490HI	Aircraft Mechanic	2000		
0490HJ	Mechanical and Industrial Technician I (Marine systems)	3000		
0490HK	Mechanical and Industrial Technician II (Marine systems)	3000		
0490HL	Mechanical and Industrial Technician III (Marine systems)	3000		
0490HM	Mechanical and Industrial Technician I (Aviation systems)	3000		
0490HN	Mechanical and Industrial Technician II (Aviation systems)	3000		
0490HO	Mechanical and Industrial Technician III (Aviation systems)	3000		
0490HP	Maintenance Mechanic Helper	6000		
0490HQ	Painter	4000		
0490HR	Electronics Technician I	2000		
0490HS	Electronics Technician II	2000		
0490HT	Telecommunications Specialist I	2000		
0490HU	Telecommunications Specialist II	2000		
0490HV	Damage Controlman I	2000		
0490HW	Damage Controlman II	2000		

11 SECTION 11 LABOR CATEGORY QUANTITY AND PRICING FOR AW5

DEEPWATER T & M PRICING Award Term 5 - Years 26-30				
CLIN #	LABOR CATEGORY	EMERGENT WORK REQUIREMENTS		
0590A	MANAGEMENT/ FINANCE/ ADMIN/ LOGISTICS/ TESTING	HOURS	UNIT PRICE	TOTAL
0590AA	Project Director	500		
0590AB	Project Control Specialist	400	* NOTE* Hour estimates represent a 'per year' projection for each of the award term years NOT a total for the entire award term	
0590AC	Senior Cost Estimator/Research Analyst	500		
0590AD	Cost Research Analyst	200		
0590AE	Administrative Specialist/Word Processor	500		
0590AF	Senior Graphics Specialist	200		
0590AG	Junior Graphics Specialist	200		
0590AH	Senior Technical Writer/Editor	200		
0590AI	Junior Technical Writer/Editor	200		
0590AJ	Senior Logistics Analyst	500		
0590AK	Logistics Analyst	800		
0590AL	Senior Logistics Manager	600		
0590AM	Reliability and Maintainability Engineer	600		
0590AN	Test Engineer	1000		
0590AO	Junior Test Engineer	600		
0590AP	Test and Evaluation Analyst	1000		
0590B	INDUSTRIAL AND SYSTEM ENGINEERING	HOURS	UNIT PRICE	TOTAL
0590BA	Senior Process Engineer	500		
0590BB	Senior Mechanical Engineer	500		
0590BC	Senior Industrial Engineer	500		
0590BD	Industrial Engineer	800		
0590BE	Manufacturing Systems Engineer	800		
0590BF	Reliability Engineer/Analyst - Marine Engineering/Ships	800		
0590GB	Reliability Engineer/Analyst - Aviation	800		
0590BH	Survivability Engineer	400		
0590BI	CAD Engineer	500		
0590BJ	Human Factors Specialist	400		

0590C NAVAL ENGINEERING		HOURS	UNIT PRICE	TOTAL
0590CA	Senior Naval/Ship Systems Engineer	1200		
0590CB	Senior Naval Marine Engineer	1400		
0590CC	Senior Naval Architect	1400		
0590CD	Naval Architect	1200		
0590CE	Marine Propulsion Systems Engineer	1200		
0590CF	Senior Naval/Marine Weapons System Engineer	800		
0590CG	Junior Naval/Marine Weapons System Engineer	800		
0590D AVIATION ENGINEERING		HOURS	UNIT PRICE	TOTAL
0590DA	Senior Aviation Engineer	1400		
0590DB	Senior Aerospace Engineer	1400		
0590DC	Avionics Integration Engineer	1200		
0590DD	Aviation Propulsion Engineer	800		
0590DE	Flight Mechanic Engineer	1200		
0590DF	Structures Engineer	800		
0590DG	Aviation Electronics Technician	1200		
0590E ELECTRONICS		HOURS	UNIT PRICE	TOTAL
0590EA	Senior Electrical Engineer	1200		
0590EB	Senior Radar/Communications Electronics Engineer	1400		
0590EC	Electrical Power Engineer	1400		

0590F	SOFTWARE/C4I ENGINEERING	HOURS	UNIT PRICE	TOTAL
0590FA	Senior Software Engineer	600		
0590FB	Software Engineer	600		
0590FC	Database Management Specialist	600		
0590FD	Senior Communications Software Specialist	600		
0590FE	Communications Software Specialist	500		
0590FF	Senior Systems Programmer	500		
0590FG	Systems Programmer	2000		
0590FH	Programmer/Analyst	2000		
0590FI	C4I Systems Engineer	600		
0590FJ	Systems Integration Engineer	500		
0590FK	Junior Systems Integration Engineer	500		
0590FL	Senior Telecommunications Electronics Engineer	500		
0590FM	Junior Telecommunications Electronics Engineer	500		
0590G	ENVIRONMENTAL	HOURS	UNIT PRICE	TOTAL
0590GA	Environmental Systems Engineer	2000		
0590GB	Environmental Scientist	2000		
0590GC	Senior Environmental Scientist	2000		

0590H	TECHNICIAN/ INTEGRATION	HOURS	UNIT PRICE	TOTAL
0590HA	Marine Electrician	1000		
0590HB	Facilities Tech	1000		
0590HC	Mechanical-Electrical Technician	1000		
0590HD	Fabrication Technician Engineer	1000		
0590HE	Refrigeration/ Utilities Technician	1000		
0590HF	Engineering Technician	1000		
0590HG	RF Test Technician	1000		
0590HH	Avionics Technician	1000		
0590HI	Aircraft Mechanic	2000		
0590HJ	Mechanical and Industrial Technician I (Marine systems)	3000		
0590HK	Mechanical and Industrial Technician II (Marine systems)	3000		
0590HL	Mechanical and Industrial Technician III (Marine systems)	3000		
0590HM	Mechanical and Industrial Technician I (Aviation systems)	3000		
0590HN	Mechanical and Industrial Technician II (Aviation systems)	3000		
0590HO	Mechanical and Industrial Technician III (Aviation systems)	3000		
0590HP	Maintenance Mechanic Helper	6000		
0590HQ	Painter	4000		
0590HR	Electronics Technician I	2000		
0590HS	Electronics Technician II	2000		
0590HT	Telecommunications Specialist I	2000		
0590HU	Telecommunications Specialist II	2000		
0590HV	Damage Controlman I	2000		
0590HW	Damage Controlman II	2000		