

DELIVERY ORDER

FINAL

1. CONTRACT NO. N00178-04-D-4042	2. DELIVERY ORDER NO. FC0312	3. EFFECTIVE DATE ORIG 03/21/2007 MOD 09/16/2008	4. PURCHASE REQUEST NO. N00164-08-MR-69957
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5. ISSUED BY NSWC, CRANE DIVISION 300 Highway 361 - Building 64 Crane IN 47522-5001 jerry.dague@navy.mil 812-854-4771 Ext. 4771	CODE N00164	6. ADMINISTERED BY DCMA MARYLAND 217 EAST REDWOOD STREET, SUITE 1800 BALTIMORE MD 21202-5299	CODE S2101A
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7. CONTRACTOR EG&G Technical Services, Inc. 900 Clopper Road Gaithersburg MD 20878	CODE 34157	FACILITY	8. DELIVERY DATE See Section F
			9. CLOSING DATE/TIME (hours local time – Block 5 issuing office)
			SET ASIDE TYPE
			10. MAIL INVOICES TO See Section G

11. SHIP TO See Section D	12. PAYMENT WILL BE MADE BY DFAS Columbus Center, South Entitlement Operations P.O. Box 182264 Columbus OH 43218-2264	CODE HQ0338
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13. TYPE OF ORDER	D	X	This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above-numbered contract.
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ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.

EG&G Technical Services, Inc.	A. Weakley Vice President		
NAME OF CONTRACTOR	SIGNATURE	TYPED NAME AND TITLE	DATE SIGNED

14. ACCOUNTING AND APPROPRIATION DATA
See Section G

15. ITEM NO.	16. SCHEDULE OF SUPPLIES/SERVICES	17. QUANTITY ORDERED/ACCEPTED*	18. UNIT	19. UNIT PRICE	20. AMOUNT
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See the Following Pages

*If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.	21. UNITED STATES OF AMERICA By: Richard L. McGarvey	09/16/2008 CONTRACTING/ORDERING OFFICER	22. TOTAL
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SECTION	DESCRIPTION	SECTION	DESCRIPTION
B	SUPPLIES OR SERVICES AND PRICES/COSTS	H	SPECIAL CONTRACT REQUIREMENTS
C	DESCRIPTION/SPECS/WORK STATEMENT	I	CONTRACT CLAUSES
D	PACKAGING AND MARKING	J	LIST OF ATTACHMENTS
E	INSPECTION AND ACCEPTANCE		
F	DELIVERIES OR PERFORMANCE		
G	CONTRACT ADMINISTRATION DATA		

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GENERAL INFORMATION

The purpose of this modification is to adjust ceiling and to provide incremental funding. Accordingly, said Task Order is modified as follows:

The total estimated amount of this task order remains

1. ADJUST CEILING

CLIN 1000 is decreased by , from to .

CLIN 1100 is increased by , from to .

2. FUNDING INFORMATION

The total funded amount currently available for payment is hereby increased by from to .

****** THIS FULLY FUNDS THE TASK ORDER ******

Information SLINs, as shown below, are added to provide the incremental funding for labor.

The clause Limitation of Funds (FAR 52.232-22) applies. The Government is not obligated to reimburse the Contractor for cost incurred in excess of unless additional funds are made available and incorporated as a modification to this order.

Section B and G are updated to reflect the below SLINs and ACRN additions for purposes of providing the incremental funding.

Labor Information SLINs for CLIN 1100 –

SLIN	ACRN	REQN. No.	AMOUNT	TI #
110014	C5			
110015	C6			
110016	C7			
110017	C8			

A conformed copy of this Task Order is attached to this modification for information purposes only.

The total value of the task order remains unchanged. The total amount of funds obligated to the task is hereby increased by from to

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The task order POCs are:

Name: Mr. Jerry Dague
Telephone: (812) 854-4771
Facsimile: (812) 854-3184
Email: jerry.dague@navy.mil

or alternate:

Name: Mr. Richard McGarvey
Telephone: (812) 854-3680
Facsimile: (812) 854-3184
Email: richard.mcgarvey@navy.mil

Specific tasking for performance shall be provided to the contractor via issuance of Technical Instructions (TIs).

Performance will be evaluated every six months and award fee will be paid after the evaluations.

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SECTION C DESCRIPTIONS AND SPECIFICATIONS

STATEMENT OF WORK
FOR
EXPLOSIVES DETECTION TEAM (Code 8056)
IN SUPPORT OF RADIATION TRACKING, POM BUDGET ANALYSIS,
CONFIGURATION MANAGEMENT LOGISTICS SUPPORT,
ENGINEERING SUPPORT SERVICES, LIQUID SCINTILLATION ANALYSIS
AND THE JOINT BIOLOGICAL POINT DETECTION SYSTEM

1.0 SCOPE

This Task Order (TO) sets forth requirements required to provide non-personal technical services for logistical support, configuration management support, Integrated Logistics Support, Engineering technical services, Chemical engineering, Analysis, Engineering Maintenance, program management support, and support technical Documentation for programs, projects, systems, equipment and components and any other tasking assigned to Code 8056 to Electro-optics Division of the Crane Division, Naval Surface Warfare Center (NAVSURFWARCENDIV) Crane.

1.1 This SOW shall relate to the areas listed below from Section I of the Basic Seaport Contract:

1. Research and Development Support
2. Engineering, System Engineering and Process Engineering Support
3. Modeling, Simulations, Stimulation, and Analysis Support
4. Prototyping, Pre-Production, Model-Making and Fabrication Support
5. System design Documentation and Technical Data Support
7. Reliability, Maintainability and Availability (RM&A) Support
10. Configuration Management Support
11. Quality Assurance (QA) Support
13. Inactivation and Disposal Support
14. Interoperability, Test And Evaluation, Trials Support
15. Measurement Facilities, Range and Instrumentation Support
16. Logistics Support
17. Supply and Provisioning Support
18. Training Support
19. In-Service Engineering, Fleet Introduction, Installation and Checkout Support
20. Program Support

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2.0 APPLICABLE DOCUMENTS

The following documents of the revision or issue in effect at the date of this TI form a part of this Statement of work (SOW) to the extent described herein. The exact revisions of the documents are not cited in the text of the statement of Work for the convenience of reference. In the event of conflict between the documents referenced herein and the contents of this Statement of Work, the contents of this Statement of work shall prevail:

Specifications

MIL-DTL-24747 Manuals, Technical: General Acquisition and Preparation Requirements

Standards

MIL-HBK-129 Marking for Shipment and Storage

MIL-STD-130H Identification Marking of US Military Property

MIL-STD-469B Maintainability Program Requirements (For Systems and Equipment) Notice 1

RAC-PA11 Maintainability/Verification/Demonstration/Interim Evaluation

MIL-HBD-781 Reliability Testing for Engineering Development Qualification, and Production

MIL-STD-974 Contractor Integrated Technical Information Service

DoD-STD-1700 Data Management Program

MIL-STD-1840 Automated Interchange of Technical Information

DoD Instruction 5000.2 Defense Acquisition Management Policies and Procedures

MIL-STD-973 Configuration Management

DI-CMAN-80400 Engineering Change Proposal

MIL-PRF-29612B Training Data Products

MIL-HDBK-502 Acquisition Logistics

MIL-PRF-49506 Logistics Management Information (LMI)

MIL-STD-1561B Provisioning Procedures, Uniform Department of Defense

MIL-STD-2097A Acquisition of Support Equipment, Associated Logistics Support

2.3 Other Publications

DOD-D-5000.3-M-4 Joint Test and Evaluation Procedures Manual

MIL-HDBK-217F Reliability Prediction of Electronic Equipment Notice 2

MIL-HDBK-259 Life Cycle Cost in NAVY Acquisitions

MIL-HDBK-472 Maintainability Prediction Notice 1

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MIL-HDBK-1221 Evaluation of Commercial Off-the-Shelf (COTS) Manual

Notice 2

MIL-HDBK-2164 Environmental stress screening for Electronic Equipment

2.4 Instructions and Regulations

OPNAVINST 5100.23E, Navy Occupational Safety and Health Program CH1

CJCSI 3170.01 B Requirements Generation System 15 Apr 01

CJCSI 3170.01C Joint Capabilities Integration and Development System

24 Jun 03

NAVSEAINST 3960.02D Test and Evaluation

OPNAVINST 5239.1 Department of the Navy Automated Information Systems

Security Program Instructions

SECNAVINST 5000.36 Department of the Navy Data Management and Interoperability

SECNAVINST 5239.2 Department of the Navy Automatic Data Processing Security Program Instructions

Task Force Web Requirements

Task Force Web Developers Guide

Web Enabled Navy Architecture

2.5 SAFETY

In the course of executing the workload defined within this SOW, contractor personnel may encounter moving/lifting heavy equipment. In order to mitigate these risks, the contractor personnel are recommended to use the following Personal Protective Equipment as required: Electrostatic Discharge Steel Toe Safety Shoes and protective eyewear. Furthermore, personnel should have training in the following areas: Ergonomic/Back Injury Awareness, Electrical for General Industry, and Electrostatic Discharge (ESD). Contractor personnel shall follow all OSHA regulations.

3.0 REQUIREMENTS

The contractor will furnish all material and labor by qualified personnel, to provide the technical support services defined within this SOW. Technical progress on all tasks and financial status of the TI shall be reported monthly. All tasking is authorized upon award. Technical Instructions (TI's) will be utilized to depict specific efforts and identify data deliverables when applicable.

3.1 ENGINEERING AND TECHNICAL SUPPORT SERVICES. As specified by TI, the Contractor shall provide engineering and technical support for the design, development, test, evaluation, and engineering related logistics for the procurement, production, maintenance, disposal (life cycle management) and related services for electronic and mechanical systems, subsystems, equipments, and components. In addition, this TO sets forth requirements to provide engineering technical services to support the design, development, implementation and improvements to the Joint Biological Point Detection System clean room and depot maintenance facility. Contractor will act as lead for the Liquid Scintillation Analysis (LSA) laboratory, completing all testing and quality control procedures as well as providing back up support to local Radiation Safety Officer.

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3.1.1 Engineering Analysis and Studies The Contractor shall develop, analyze and evaluate recommendations for the various laboratories as required. The contractor shall develop requirements and specifications as needed to comply with regulations and design criteria for each laboratory. The contractor shall review and make recommendations on the applicability of a particular technology or equipment to satisfy operational requirements and mission needs by reviewing and evaluating current products available on the market and recommending equipment upgrades or replacements.

3.1.1.1 Quality Assurance Support. The Contractor shall provide the Quality Assurance services identified in MIL-Q-9858 for requirements and other specifications and standards as may be specified by TI (e.g., NAVSEA OD 46574, NAVAIRINST 5400.23, MARINE CORPS ORDER 4855.2, AR 702-4, ISO 9001:2000 or equivalent and related documents). With respect to systems, subsystems, equipment and components, these services may apply to any or all of the life cycle phases of the product. This requires the following: conceptual design phase, demonstration and validation phase, full scale engineering phase, production/deployment and operational support (new build as well as repair and refurbishment) phase, logistic support and disposal phase. Services provided by the Contractor shall be in response to a quality assurance package of requirements identified by the individual TI. The requirements associated with a given TI may relate to the product, process, procedures, personnel, plant and/or plans identified with a specific body of work. The requirements package will be derived from a list of requirements defined in the individual TI.

3.1.2 Quality Assurance Analyses. The Contractor shall perform quality assurance analyses and prepare quality assurance planning documentation on systems, subsystems, equipment and components as specified by TI and provide reports with recommendations and supporting data to the Government. These tasks require the assimilation of quality assurance data, preparation of quality assurance plans, evaluation of quality assurance data supplied by the Government, and other related tasks in accordance MIL-Q-9858 and MIL I-45208 and as required by TI. The Contractor shall also attend quality assurance program reviews on specified systems, subsystems, equipment and components; record and report any discrepancies/ problems, and formulate recommendations, along with their respective justifications, to resolve these discrepancies/ problems.

3.1.2.1 STATISTICAL RESEARCH SUPPORT. The Contractor shall construct, modify, or perform statistical and analytical research in accordance with requirements specified in TIs in the following general categories of research projects. The areas of analytical research shall include: mathematical simulation models; establishment of optimization techniques; derivation of decision theories; development of inventory control models; conducting analyses using probability and statistical theories; and, providing independent analytical assessments of systems, subsystems, components, and other organizational structures. The Contractor shall perform and document requirements studies and hardware definitions, and participate, coordinate, and conduct field testing as required by TI and in accordance with Government furnished information.

3.1.2.2 SYSTEMS INTEGRATION. As required by TI, the Contractor shall identify and document data to ensure equipment and computer program compatibility; system/component interface; identify and provide recommended solutions to equipment interface problems; review and monitor system tolerances; participate with the Government in performing system tests to assess performance, safety, operability, reliability and maintainability; and review Engineering Change Proposals for interface impacts in accordance with Government Furnished Information. The Contractor shall annotate all recommendations made to the Government with rationale and justification for all assumptions used to arrive at any aforementioned recommendations.

3.1.2.3 MAINTENANCE ENGINEERING. As specified by TI, the Contractor shall develop and maintain maintenance concepts tasks and criteria for all levels of maintenance; perform design reviews and test evaluations to minimize maintenance support; define tasks to be performed at all levels of maintenance; prepare or evaluate technical documentation such as repair standards, drawings, specifications, test procedures, and allowance parts lists; prepare or review maintenance facility design criteria; develop or review personnel training criteria; develop or review provisioning of parts, establishing part replacement factors, and source maintenance and recoverability (SM&R) coding; review production engineering changes for impact on maintenance support; prepare/review installation design and physical layout for reliability and ease of maintenance; develop or review installation standards and practices; develop or review system maintenance requirements cards (MRCs); and, prepare or review computer programs and systems to support system or component maintenance. The Contractor shall develop maintenance concepts and criteria in accordance with applicable documents identified in individual TIs and provide to the Government all justification for any assumptions used.

3.1.2.3.1 The Contractor shall provide senior level technical expertise to investigate and analyze systems and component failures and perform corrective actions and calibration on assigned assets. Investigations, analyses,

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repair actions and calibration/grooming will be performed on system and subsystem equipment. Failure trends and causative factors shall be recorded and maintained in Depot documentation and this data shall be used to determine the future potential impact to operations and supportability of the systems and subsystems. Analysis reports and recommendations shall be submitted describing the failure analysis, trends observed and corrective actions necessary for resolving potential adverse impacts to these programs.

3.1.2.3.2 The Contractor shall perform corrective and repair actions of systems and subsystems. This work shall take place in-house within the Code as well as various off-site locations. The Contractor shall work with the OEM and NSW Crane personnel to accomplish the required tasking in the most efficient and effective manner in order to reduce the maintenance turnaround time and get the assets back to the Fleet.

3.1.2.3.3 The Contractor shall review technical documentation for accuracy and completeness and interfacing with fleet personnel on technical matters. The Contractor shall review technical documents including Preventive Maintenance Cards and other 3M documents for completeness and accuracy.

3.1.2.4 ENGINEERING INVESTIGATIONS. As specified by TI, the Contractor shall perform engineering investigations to evaluate equipment operational reliability, maintainability, availability, logistics support, and configuration status in accordance with applicable drawing specifications and appropriate Integrated Logistics Support Plans (ILSP) and Configuration Plans (CM) plans. The Contractor shall report the results of such investigations along with recommendations and the basis for those recommendations in areas specified in the TI. The Contractor shall assist the Government in planning, organizing, and attending on site working sessions in the Fleet to resolve problems and improve performance in the areas of equipment maintenance and operation in order to satisfy the requirements in the TI.

3.1.2.4.1 The contractor shall investigate hardware and software deficiencies on systems, equipment and components assigned to the respective branch. And make recommendations to correct the problems. The contractor shall perform tests to verify the causative factors and verify the recommendations to correct. Reports shall be submitted to the branch and approval must be granted prior to implementing correct changes.

3.1.2.5 FIELD DATA ANALYSIS. As specified by TI, the Contractor shall perform field data analysis on equipment and computer software. The Contractor shall identify existing Government sources of information, collect available maintenance data with Government assistance, analyze this data, identify trends or problems affecting equipment operation and mission requirements, and submit recommendations with associated rationale for changes to design or maintenance requirements to improve availability and performance. The Contractor shall use maintenance reporting systems that are currently operational within the Government at the date of TI. If such systems do not meet TI requirements, the Contractor shall recommend changes or improvements to these systems for Government consideration.

3.1.2.6 RELIABILITY. As described in the TI, the Contractor shall perform reliability predictions per Task 203 of MIL-HDBK-217, and MIL-HBK-781 and submit properly completed Failure Mode, Effects, and Criticality Analysis Maintainability Information Worksheets. The Government will provide the Contractor design, configuration, and mission data and access to Government personnel to enable the Contractor to adequately perform these predictions. The Contractor shall evaluate and annotate reliability predictions prepared by development contractors and submit them with any supporting information to the Government. For fielded equipment, as specified by TI, the Contractor shall collect, categorize, and summarize field data to verify previous reliability predictions and identify trends and design changes to improve reliability.

3.1.2.6.1 FAILURE MODE, EFFECTS, AND CRITICALITY ANALYSIS. As specified by the TI, the Contractor shall perform an independent Failure Mode, Effects, and Criticality Analysis (FMECA) on equipment design in accordance with RAC Document PA11. The Contractor shall deliver to the Government completed Failure Mode, Effects, and Criticality Analysis Maintainability Information Worksheets. The Government will provide a complete description of the subject design and its performance requirements and access to the Government design staff.

3.1.2.6.1.1 The contractor shall work in conjunction with program engineering to document if required Reliability Predictions, a Failure Mode Effects and Criticality Analysis (FMECA), and Reliability Centered Maintenance (RCM) analysis. The contractor shall use engineering data from specified contractors and other sources. The contractor shall also incorporate the information and results of this effort into the logistics analysis process and the logistics

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database where applicable. The contractor shall also assist in the preparation and presentation of this material in support of the program. Technical Reports shall be delivered to the government with revisions as required.

3.1.2.7 ACQUISITION ENGINEERING. As required by TI, the Contractor shall review and prepare technical specifications in support of procurements in accordance with Government Furnished Information. The Contractor shall analyze design data to determine defects detracting from equipment, system, or component's capability to perform to its intended operational requirements and to satisfy all specification requirements. The Contractor shall review production engineering changes, waivers, deviations, and/or alterations for their impact on performance, reliability, maintainability, availability, quality, safety, and life cycle cost. The Contractor shall also perform, as specified by TI, production cost estimate analyses and provide the Government with justification for any recommendations made.

3.1.2.8 MEETING ASSISTANCE. As specified by TI, the Contractor shall perform the following types of meeting assistance tasks: surveying; ensuring adequate facilities; planning and support; preparing briefing materials; presenting briefings; and, developing, recording and distributing agendas/minutes of meetings, reviews and conferences. The Contractor shall also participate with the Government in design reviews, technical problem meetings, user conferences and program status reviews. Action items and/or short term specific assignments resulting from such meetings requiring performance by the Contractor that require additional costs will be amended to the TI or tasked by a separate TI. For those action items and/or short term specific assignments that are within the scope of the TI and where no additional costs are involved, a Technical Instruction will be issued to the Contractor identifying those action items or short term specific assignments to be performed.

3.1.3 TEST AND EVALUATION. The Contractor shall test and evaluate systems, computer programs, equipment, modules, and components as specified by TI. These tasks will include preparing inputs for test plans, reviewing test plans and procedures, conducting or monitoring equipment testing, analyzing test results, determining valid recommendations and conclusions based on test data, and the preparation of formal reports. As specified by TI, the Contractor shall submit evaluations along with the rationale for these evaluations to the Government.

3.1.3.1 TEST PLANS AND PROCEDURES. As specified by TI, the Contractor shall develop system test plans from program requirements and Government Furnished Information. Such test plans shall include:

Test and Evaluation Master Plans DOD-D-5000.3-M-4

Technical Evaluation (TECHEVAL) Plans NAVSEAINST 3960.2D

Operational Evaluation (OPEVAL) Plans NAVAIRINST 3960.2D

System Qualification and First Article

Qualification Test Plans As Specified by TI

Production Acceptance Test and Evaluation

Plans (PAT&E) As Specified by TI

The Contractor shall evaluate and annotate test plans originated by other agencies/contractors and provided to the Contractor as Government Furnished Information. Evaluation of plans and procedures shall be for compliance with contractual requirements, for adequacy to demonstrate or control equipment quality and performance, and for ease of implementation in accordance with detailed requirements specified by TI. The Contractor shall submit an evaluation report on the adequacy of such plans and provide rationale and assumptions made. The Contractor shall also develop, as specified by TI, detailed test procedures implementing test plan requirements in areas that may include environmental and biological hazard analysis, radiographic procedures, chemical procedures, electronic and electrical procedures, explosive component procedures, mechanical and hydraulic procedures, and thermal procedures.

3.1.3.2 TEST DATA REVIEW. As specified by TI, the Contractor shall review and analyze system or equipment test data and perform pre test methodology analyses for development tests and evaluations (experimental, engineering, and demonstrations); operational tests and evaluations (TECHEVAL and OPEVAL); and production acceptance tests and evaluations (qualification, production acceptance, and factory and Government acceptance). The Contractor

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shall formulate recommendations, with justification, to correct any equipment performance, quality, maintenance, or mission impacting problems. The Contractor shall recommend improvements to design, configuration, materials, construction, or other criteria as indicated by TI resulting from the test data reviews and deliver those recommendations along with justification to the Government.

3.1.3.3 TEST MONITORING. As specified by TI, the Contractor shall participate with the Government by attending tests performed at prime contractor locations to review the appropriate test requirements and procedures, monitor the test being conducted, and evaluate the test results. Particular attention shall be paid to ensure that test procedures are approved and followed, and that discrepancies occurring during tests are corrected in accordance with approved test plans and resolved in accordance with contract requirements.

3.1.4 TECHNICAL DATA SUPPORT. The Contractor shall develop engineering technical data packages, review technical data packages provided as Government Furnished Information for technical accuracy, prepare subsequent changes for inclusion to the data package, make recommendations for changes with supporting rationale and, upon approval by the Government, incorporate these changes into the technical data package and evaluate these changes for their immediate or potential impact upon the data package. Delivered data packages shall meet the specified requirements of the associated TI.

3.1.4.2 DATA PACKAGE PREPARATION. For equipment specified by TI, the Contractor shall prepare a data package to meet the requirements of the specs and standards cited in paragraph 3.1.2.5 or as specified in the TI utilizing Government furnished draft versions of existing drawings. The Contractor shall review Government furnished Level 2 or developmental design drawings and verify completeness, identify missing or incomplete data, and bring drawing standards into compliance with ASME Y14.100, ASME Y14.5M-94, and DOD-STD-2101, or other applicable specs and standards cited in the TI. The Contractor shall recommend specifications; performance thresholds; suitable military specification components in the Navy supply system; and methods of testing, cleaning, inspection, and packaging to facilitate completion of the Level 3 or product level drawing technical data package to meet the specifications of the TI and provide the Government with their rationale for making such recommendations. Before acceptance by the Government, the technical data package shall meet the requirements of paragraph 3.1.6.6 of this Statement of Work or as specified by TI.

3.1.4.3 ASSOCIATED DOCUMENTATION. The Contractor shall prepare, from Government Furnished Information, technical documentation, as defined by TI, to support systems and programs managed by NAVSURFWARCENDIV Crane. This documentation shall include systems and component specifications, technical manuals, user guides, application notes, installation drawings and checkout procedures, and technical bulletins. The Contractor shall ascertain that the resulting documentation ensures accuracy and faithfulness to the source technical information.

3.1.4.3.1 TECHNICAL MANUALS. The Contractor shall review, prepare or modify technical manuals as specified in TIs for specified equipment. The Contractor shall prepare and deliver to the Government the technical manuals specified in TIs in a camera-ready form.

3.1.4.3.2 SPECIFICATIONS. The Contractor shall prepare or review specifications as detailed in TIs in accordance with the requirements of MSFC-SPEC-961-2, DOD-STD-2101, MIL-STD-961, and other requirements as may be specified by TIs.

3.2 INTEGRATED LOGISTICS SUPPORT (ILS). ILS management and technical support shall be performed by the Contractor for the equipment specified by TI for each of the logistic elements as defined in NAVAIR Logistic System Process Specification AL 082AA LPS 080 or as specified by TI. The Contractor shall analyze, investigate, and/or produce ILS documentation to ensure that all program support requirements for ILS planning and implementation have been adequately addressed, and that planning adequately reflects known operational, design, and support requirements in accordance with current directives. The analysis shall include all areas of ILS needed for adequate assessment of Government ILS planning, implementation, contractual obligations, and performance. ILS planning shall be in accordance with applicable Life Cycle Phase and Milestone Review requirements delineated in DOD-D-5000.1 and subordinate instructions and directives, OPNAVINST 5000.49 and NAVAIR Logistic System Process Specification AL 082AA LPS 080.

3.2.1 The contractor shall provide acquisition and in-service integrated logistics support to assist in the development of analyses and documentation to facilitate the most efficient support concept for the assigned systems. This may include but not be limited to: Review of engineering drawings, specifications, reliability data and other technical documentation for the purpose of making recommendations related to maintenance levels, tools, support equipment,

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spare parts, PHS&T, maintenance procedures, hazardous materials, personnel and training. Development of various types of technical reports related to supportability, reliability, maintainability, personnel, tools and test equipment, training, safety, hazardous materials PHS&T and spares. When required, Technical reports will be delivered as required in the TI. The contractor shall provide configuration management (CM) support including assistance in establishing effective CM plans, processes, and database capabilities and review of CM documentation.

3.2.1.1 Provisioning The contractor shall perform the research and screening necessary to develop the information required by customer supplied TI and the Provisioning Requirements Summary (PRS). The Contractor shall enter that information into the logistics database to allow the generation of an LSA-036 report and specified lists. Provisioning screening data shall be delivered to the Government in contractor format in the form of a technical report.

3.2.1.2 INTEGRATED LOGISTICS SUPPORT PLANS AND ANALYSES. As specified by TI, the Contractor shall gather information, analyze, develop, and prepare plans and analyses in the integrated logistics support area. These plans and analyses shall include the tasks delineated in the following paragraphs.

3.2.1.2.1 INTEGRATED LOGISTICS SUPPORT PLANS. The Contractor shall generate, implement, review, and maintain Integrated Logistics Support Plans (ILSP). ILS planning shall be in accordance with OPNAVINST 5000.49, and NAVAIRINST 4000.20A. The Contractor shall also generate, implement, review, and maintain Operational Logistics Support Summaries (OLSS) as specified by TI. All contractor efforts for ILS plans shall address the standard elements of ILS. Logistics planning elements may be broken out and assigned as separate tasks by TI.

3.2.1.2.2 LOGISTICS SUPPORT FOR ACQUISITION PLANS. The Contractor shall review and document Weapons System Acquisition Plans for complete ILS requirements by Life Cycle Phase and consolidate and incorporate these identified requirements into an ILS Detail Specification for the system, identifying specific Program Initiation, Full Scale Development, and Production and Deployment requirements. The ILS Detail Specification shall quantify support systems performance parameters and constraints necessary to achieve readiness objectives at the least cost in accordance with OPNAVINST 5000.49. Upon approval of the ILS Detail Specification by the Government, the Contractor shall review and assess the acquisition package to ensure inclusion of all ILS requirements. The Contractor shall review and document acquisition plans for systems and components not requiring an ILS Detail Specification to ensure inclusion of all ILS requirements.

3.2.1.3 SUPPORTABILITY ANALYSIS (LSA) PREPARATION. As specified by TI, the Contractor shall perform a systematic and comprehensive logistic support analysis on an iterative basis through all phases of the system/equipment life cycle to satisfy supportability objectives. The level of detail of the analyses and the timing of task performance shall be tailored to each system/equipment and shall be responsive to program schedules and milestones. The Supportability Analysis process shall conform to the requirements of MIL-HDBK-502, using guidance in MIL-STD-1388-1. Supportability Analysis documentation shall consist of all data resulting from analysis tasks conducted under this standard and shall be the primary source of validated, integrated design related supportability data pertaining to an acquisition program. Supportability Analysis documentation shall be developed and maintained commensurate with updated design, support and operational concept development and shall be updated to reflect changes or availability of better information based on testing, configuration changes, and operational concept changes during the acquisition process. Accumulated Supportability Analysis documentation shall provide an audit trail of supportability and supportability related design analyses and decisions and shall be the basis for actions and documents related to manpower and personnel requirements, training programs, provisioning, maintenance planning, resources allocation, funding decisions, and other logistic support resource requirements. Configuration control procedures shall be established over Supportability Analysis documentation updates to assure proper coordination among other system engineering programs, the Supportability Analysis program, and the development of ILS documents using Supportability Analysis data. The Logistics Management Information (LMI) is a subset of Supportability Analysis documentation, and the data elements shall conform to the requirements of MIL-PRF-49506.

3.2.1.4 LOGISTICS SUPPORT ANALYSIS RECORD. The Contractor shall perform assessments of the conduct and content of the Logistics Support Analysis program with associated data and products for systems, subsystems and components listed in the scope of work and as specified by TI. These records shall ensure conformance to MIL-PRF-49506 and the results of technical analyses of the following areas: Design, Reliability, Maintainability, Human Engineering, Standardization, Safety, Packaging, Handling, Storage, Transportation, Cost and Time Factors as well as the Logistic Support Analysis/Design Engineer Interface. In addition, the Contractor shall assess the utilization of the Logistic Support Analysis database as the sole source of all logistics requirement determinations, logistics/design impact trade offs and level of repair and maintenance plan analysis input data. All findings and recommendations shall be documented with supporting information.

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3.2.1.5 INTEGRATED LOGISTICS SUPPORT MANAGEMENT TEAM (ILSMT) SUPPORT. As required by TI, the Contractor shall perform management and technical tasks in support of ILS management teams. The Contractor shall also publish minutes and action items from meetings and announce and coordinate ILS management team meetings for equipment specified by TI.

3.2.1.5.1 RADIATION TRACKING The Contractor shall provide support in accordance with requirements set forth under specific Navy Radiation Materials Permits by providing radiation tracking of various devices covered under the permits. The Contractor will confirm the receipt of shipped units; receive, review, and evaluate documentation; research and resolve discrepancies in inventories; perform leak testing of permitted equipment (as necessary) and maintain automated data management systems. The contractor may be required to audit user locations for permit compliance and inventory accountability.

3.2.1.6 LOGISTICS REVIEW GROUP (LRG) AUDIT SUPPORT. The Contractor shall assemble and/or review a Logistic Review Group audit documentation package as specified by TI for established Defense Systems Acquisition Review Councils (DSARC) Milestone Logistic Review Group Audits or Program Reviews. The Contractor shall perform, prepare, and/or review Logistic Review Group audit action item tracking through close out, and required ILS approval documentation for Low-Rate Initial Production (LRIP) and for Full-Rate Production (FRP). The reviews shall identify any deficiencies in ILS planning for the weapon system and recommend corrective actions for these identified deficiencies and all findings shall be documented with supporting information for any recommendations made by the Contractor.

3.2.1.7 INTERIM LOGISTICS SUPPORT. As specified by TI, the Contractor shall support the receipt, control, and staging of interim support items in accordance with the requirements of the TI. The Contractor shall establish and maintain an information system to support the operations of interim support items. Interim support shall be provided for pre-production/prototype equipments or components, production material, and modification kits. The Contractor shall maintain interim support for new equipment until the Material Support Date is reached, or as specified in the individual TI.

3.2.1.8 LOGISTICS DATA MAINTENANCE. As required by TI, the Contractor shall review, evaluate, maintain, and update data and associated documentation for Integrated Logistics Support of fielded systems, subsystems, and components. The ILS data to be reviewed, evaluated, maintained, and updated may include, but not be limited to, initial outfitting lists; packaging, handling, storage, and transportation data; Equipment Identification Codes (EIC); Maintenance Index Pages (MIP); Maintenance Requirement Cards (MRC); ship discrepancy reports; maintenance reports; repair records; inventory data; ILS milestone charts; and ILS status reports.

3.2.1.8.1 Logistics Database The contractor shall import existing MIL-STD-1388-2B or MIL-PRF-49506 automated logistics database(s) for review and comment. The contractor shall also input new data or develop new databases, make corrections to existing data or reviewed data and generate reports. MIL-STD-1388-2B format master files or MIL-PRF-49506 as specified shall be delivered to the government on a monthly basis.

3.2.2 MAINTENANCE PLANNING. Using Government Furnished Information, the Contractor shall perform engineering analyses or technical assessments of maintenance concepts and plans in accordance with MIL-HDBK-502. The maintenance concept and specific logistic support resources required at each maintenance level shall be examined to ensure the plan is consistent with the equipment's overall mission requirements. The Contractor shall prepare and submit a report on this analysis with respect to mission requirements. The Contractor shall provide recommendations as to any modifications and provide supporting information and rationale. With Government Furnished Information, the Contractor shall, as specified by TI, prepare maintenance plans for specified systems, and perform Logistics Support Analyses in accordance with MIL-HDBK-502, Failure Modes Effects and Criticality Analysis using guidance in MIL-STD-1629 in accordance with RAC Document PA11, and Level of Repair Analyses in accordance with MIL-PRF-49506.

3.2.2.1 LEVEL OF REPAIR ANALYSIS (LORA) ASSESSMENT. The Contractor shall perform technical assessments of the Level of Repair Analysis for systems, subsystems and components listed in the scope of work to ensure their conformance with the requirements of MIL-PRF-49506 or as required by TI. The method or model used for the Level of Repair Analysis shall be specified by TI. Proper extraction and use of Logistics Support Analysis Record, proper selection of sensitivity parameters/ranges, accuracy and validity of data inputs, and relevance of conclusions based on review of output decisions shall be assessed. Inconsistencies and errors shall be documented with recommendations for approval of the level of repair and all supporting information and findings accompanying the

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report.

3.2.2.2 MAINTENANCE DATA COLLECTION. For equipment specified by TI, the Contractor shall collect and analyze the Government's maintenance data with respect to the equipment's reliability and maintainability. The maintenance data will be provided as Government Furnished Information. The Contractor shall provide, as specified by the Government, the results of this analysis and shall include Mean Time Between Failure, validation plan for Mean Time Between Failure calculations, replaceable item failure rates, and equipment operational availability in accordance with OPNAVINST 3000.12.

3.2.2.3 MAINTENANCE PLAN TECHNICAL ASSESSMENT. The Contractor shall conduct engineering and technical assessments of maintenance plans for systems, subsystems and components in accordance with the concepts and procedures as required by TI. Analyses shall include complete operational scenarios and consider factors related to mission definition factors; life cycle cost; utilization requirements; effectiveness factors for operational, maintenance and support data; and environmental considerations in accordance with OPNAVINST 5090.1B.

3.2.2.4 DEPOT PLANNING. The Contractor shall prepare plans for the development and formal certification of maintenance depots and designated overhaul points as specified by TI. Each plan shall define how certification will be performed, the participants and their responsibilities, schedule milestones, and shall contain requirements for reports and records. The Contractor shall review the depot's technical and maintenance overhaul and repair standards, control manuals, work instructions, and other published technical data used by technicians during overhaul and repair of equipment. Review shall be for compliance with contract requirements and the governing specifications. As required by TI, the Contractor shall record results of depot and designated overhaul point certification audits and prepare reports for the Government.

3.2.3 SUPPLY SUPPORT. As required by the TI, the Contractor shall review and/or produce Provisioning Technical Data (PTD) in accordance with MIL-PRF-49506 when Automated Data Processing (ADP) stored Logistic Support Analysis Record data is available, and in accordance with MIL-STD-1561 and MIL-PRF-49506 when Logistic Support Analysis Record data is manual or incomplete. Such data will include Provisioning Parts Lists (PPL), Design Change Notices (DCN), Long Lead Time Items Lists (LLTIL), Interim Support Items List (ISIL) and Repairable Items Lists (RIL). The Contractor shall also produce and update Program Support Data (PSD) sheets in accordance with NAVSUPINST 4420.36B or equipment specified by TI. For these equipments, the Contractor shall make recommendations to determine the breadth and depth of items to be stocked, as well as their source, maintenance, and recoverability aspects. The Contractor shall review equipment Source, Maintenance, and Recoverability (SM&R) codes for applicability and accuracy in accordance with OPNAVINST 4410.2A and provide the results of that review as an annotated list to include supporting information as to any recommended change. The Contractor shall review Allowance Parts List (APL) and Allowance Requirements Registers (ARR) and reconcile these with equipment technical data. Updated APLs shall be returned to the Government after reconciliation. Interim material support requirements shall be determined. This shall involve utilizing maintenance plans, phased support plans, site/unit activation schedules and weapons systems planning documents to determine or evaluate the support material list, contractor support, and repair of repairable requirements. The Contractor shall, as required by TI, use the Interactive Computer Aided Provisioning System (ICAPS) in support of equipment provisioning. The Contractor shall provide additional supply support to maintain, update and/or review existing supply support processes and to alleviate defined deficiencies. This shall include investigations, reviews, and evaluations of parts utilization data, Defense Logistics Support Center screening requirements, improved supply procedures to implement a more efficient system, and inventory control point effectiveness.

3.2.4 TRAINING. As specified by TI, the Contractor shall develop training plans as specified in the TI. Primarily, the courses shall be for Government instructors or other support agents, who will perpetuate the training in the Government. All findings and recommendations shall be documented with supporting information. The Contractor shall develop training materials and courses according to MIL-PRF-29612 and MIL-HDBK-1379 or as specified in the TI, for specified equipments and provide instructors for these courses. The Contractor shall participate in contractor training conferences to evaluate the effect of new system training data and make recommendations, along with the supporting rationale, to the Government in accordance with the requirements of individual TIs.

3.2.4.1 The contractor shall provide instructor support the ChemBio and Explosive Detection equipment and associated test equipment and peripherals. The contractor shall update and/or use existing instructor guides and handouts to conduct training for "O" Level personnel both at Crane and off-site. At the completion of the training course, the contractor shall deliver a technical report containing the instructor's comments and recommendations for

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enhancing the course as well as the class attendance list and critiques.

3.2.5 SUPPORT EQUIPMENT. The Contractor shall review, analyze, and produce requirements and associated lists for test and support equipment in accordance with MIL STD 2097 and MIL-PRF-28800F, and as required by TI. The reviews and analyses shall include reviews of the Logistic Support Analysis Records to ensure all requirements for support and test equipment have been minimized (variety and quantity), that considerations for general or special purpose support equipments have been fully supported, that the selection process is based on cost effectiveness, and that reliability and maintainability features of the support equipment is compatible with the prime equipment.

3.2.5.1 The contractor will set up and maintain laboratory equipment, identify and procure associated hardware/software required to sustain operations, train other Branch members on the operation and assist in design and assembly of test sets. The contractor will perform tests and evaluation of test sets and report results.

3.2.6 TECHNICAL DOCUMENTATION. As specified by TI, the Contractor shall develop and review technical manuals, operations and maintenance procedures, and associated elements in accordance with NAVSEAINST 4160.3A (Technical Manual Management Program (TMMP)), MIL-DTL-24784/7A, MIL-DTL-81927C, MIL-M-24100, MIL-HDBK-1221, and Government Furnished Information for compatibility with Logistic Support Analysis data. The Contractor shall develop Technical Manual Contract Requirements in accordance with the requirements of the TI for incorporation into Statements of Work for hardware acquisitions. The Contractor shall support In Process Reviews for technical manuals at prime contractor facilities and provide support for the verification/validation of technical manuals through on site reviews. The Contractor shall provide support for the transition of technical manuals and other technical data to Government support organizations as required in the individual TI.

3.2.7 COMPUTER RESOURCES SUPPORT. As specified by TI, the Contractor shall develop and review requirements for all embedded or associated computer equipments, components, and software in accordance with SECNAVINST 5200.32 and Government Furnished Information. The Contractor shall review and assess software changes for impact on logistics support and review life cycle management plans, which address the scope and purpose of computer resources support for impact upon interchangeability, producibility, and standardization.

3.2.8 PACKAGING, HANDLING, STORAGE, AND TRANSPORTATION. The Contractor shall perform reviews, analyses, evaluations, and planning for packaging, handling, storage, and transportation considerations in accordance with the spec or standard specified in the TI, or Government Furnished Information. Such analyses, reviews, and planning shall consider adequacy of levels of protection, preservation, container design, functionality, reusability, and marking. The Contractor shall conduct analyses in the areas of handling equipment, storage considerations, and transportability issues and make recommendations along with the supporting rationale for those recommendations to the Government.

3.2.9 MANPOWER AND PERSONNEL. As specified by TI, the Contractor shall develop, maintain, and implement manpower and personnel requirements resulting from Logistic Support Analyses in accordance with Government Furnished Information. The Contractor shall identify the necessary quantity and skill levels for personnel requirements compatible with the complexity of operational and maintenance tasks specified by TI using Hardman Analysis.

3.2.10 FACILITIES. As specified by TI and conforming to Logistic Support Analyses, the Contractor shall identify facility requirements necessary for system operation and maintenance in accordance with OPNAVINST 11010.1J and Government Furnished Information. This identification shall include consideration of space, volume, capital equipment, utilities, temperature, humidity, storage, shelf space, facility environment, and related issues concerning the facility's overall mission and operational requirements.

3.2.11 DESIGN INTERFACE. The Contractor shall conduct technical assessments of the Supportability Analysis process for systems specified by TI to ensure completeness, accuracy, and conformance to MIL-HDBK-502 requirements. The assessment shall be documented with supporting information and justification for the results of technical analyses in total system logistic support, physical configuration, transportability, accessibility, maintainability, Built in Test/Built in Test Equipment (BIT/BITE), interchangeability, criticality, standardization, human factors, component reliability, and the incorporation of changes defined by logistic considerations. The Contractor shall provide the Government with a report on this assessment to include any recommendations, changes, or corrections to the process and shall include supporting justification for each recommendation.

3.2.12 MATERIAL MANAGEMENT AND SUPPORT. As specified by TI, the contractor shall perform supply and

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warehousing functions. Support can consist of ordering, tracking, receipt control, inventory, staging, packaging, preservation, shipping and related functions and reporting. The contractor shall provide required facilities and equipment when specified by TI. The Contractor shall assist supply personnel in physical audits of items stored in supply at Crane in both buildings 3324, 2044, 3291 and 64 as required.

3.3 CONFIGURATION MANAGEMENT (CM). The Contractor shall develop specific elements of configuration management on selected equipment as specified by TI. All detailed requirements and configuration management tasks shall be performed in accordance with the requirements of NAVSEAINST 4130.12A. The Contractor shall analyze and evaluate the impact of engineering change proposals on materials, cost, schedule, and technical documentation. The Contractor shall implement configuration changes in accordance with the configuration management plan for the system, subsystem, or component or as required by the TI. As specified by TI, the Contractor shall use the Ship Configuration and Logistics Support Information System (SCLSIS) to maintain configuration management information. The contractor shall provide support to Code 805 and their customers to maintain current data bases and develop other elements as required to support the life cycle of specific projects.

3.3.1 CONFIGURATION MANAGEMENT PLANNING. The Contractor shall review and/or develop configuration management plans in accordance with NAVSEAINST 4130.12A using guidance in MIL STD 973 for equipment specified in TIs. Plans shall be reviewed for editorial and technical compliance with the governing specifications. The Contractor shall make recommendations with supporting rationale for change from source material and specific program requirements provided as Government Furnished Information.

3.3.2 CONFIGURATION IDENTIFICATION. As required by TI, the Contractor shall identify items for configuration management in accordance with ASME Y100.14, MIL STD 130, using guidance in MIL STD 973, MIL-HBK-1812, MSFC-SPEC-961-2, DOD 4120.24-M, or specified by TI. The item identification function shall address and ensure the complete definition of all technical documentation required to describe the functional and physical characteristics of items designated for configuration management and ensure that verified technical documents, which define the baseline, are current, approved, and available for use at the times they are needed.

The contractor shall identify items for configuration management to ensure the complete definition of all technical documentation required to describe the functional and physical characteristics of items designated for configuration management. The contractor shall ensure that verified technical documents that define the various baselines are current, approved, and available for use at the times they are needed

3.3.3 CONFIGURATION CONTROL. As required by the TI, the Contractor shall review and analyze requests for deviations and waivers to determine the effects on production, configuration identification, operation, and logistics. The Contractor shall also determine whether requests for minor deviations or waivers and Class II Engineering Changes are correctly categorized as defined in MIL STD-973. The Contractor shall submit reports to the Government on all such reviews, documenting the results with any change recommendations and supporting rationale. The Contractor shall prepare Engineering Change Proposals, Engineering Change Orders, and Specification Change Notices using guidance in MIL STD-973 for equipment specified by TI. The Contractor's configuration management personnel shall also attend the Government's configuration management audits conducted on equipment developers to ensure that configuration management plans are acceptable and are in effect. The Contractor shall submit his findings with supporting rationale to the Government.

In support of this TO, the contractor shall utilize the Product Data Management System (PDMS) and Workflow System as a means to create and route configuration change documentation. As required, contractor shall review and analyze change control documentation in order to determine the effects on production, configuration identification, operation, and logistics.

3.3.4 CONFIGURATION STATUS ACCOUNTING (CSA). As required by TI, the Contractor shall review existing configuration status accounting data systems and analyze their adequacy in meeting configuration status accounting requirements using guidance in MIL STD 973 for equipments and programs specified by the Government. Factors to be considered are schedule, cost, maintenance, data structure, host system, development effort, and application. The Contractor shall recommend alternative configuration status accounting system(s) to be used or developed to meet program requirements, and include appropriate supporting data. The Contractor shall also analyze data recording requirements and provide recommendations with supporting rationale as to what data elements require accounting, as well as the most cost effective data set. The Contractor shall adapt an existing system or create a new system to meet program requirements and record configuration changes through each life cycle phase of the system to assist in the Government's analysis of failures, development of product improvements, and considerations of retrofit actions or field maintenance actions.

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3.3.5 CONFIGURATION AUDITS. As required by TI, and to provide support for Government configuration audit teams, the Contractor shall verify and document that hardware and computer programs Configuration Items (CIs) and their configuration identification are accurate, complete (according to contract requirements), adequate to establish the product baseline, and compatible with the next higher level design documentation. For the Functional Configuration Audit (FCA), the Contractor shall review the configuration item's technical documentation and submit an analysis of comparison with its functional characteristics. Similarly, the Contractor shall provide technical evaluation in conducting a Physical Configuration Audit (PCA) to ensure that the configuration item's physical configuration is in agreement with its documentation description. The Contractor shall evaluate for compliance of the technical documentation using guidance in MIL-STD-973, and as specified in ASME Y14.100, MIL-DTL-31000, MSFC-SPEC-961-2, ASME Y14.5M-94 and DOD-STD-2101. The Contractor, as a participant with the Government on the audit team, shall determine the correlation of the "as built" configuration with the released "as designed" configuration. Discrepancies and recommended corrective actions shall be documented according to procedures established by the audit team and submitted to the Government with the Contractor's justification for recommendations and evaluations.

3.3.6 TECHNICAL REVIEWS. The Contractor shall participate with the Government and annotate proposed agendas for configuration management technical reviews, attend technical reviews and document proceedings, and evaluate the responsiveness of the reviewed activity to governing contract requirements with supporting rationale as specified by TI. Such reviews include the System Requirements Review (SRR), System Design Review (SDR), Software Specification Review (SSR), Functional Configuration Audit (FCA), Physical Configuration Audit (PCA), Production Requirements Review (PRR), Preliminary Design Review (PDR), Critical Design Review (CDR), Test Readiness Review (TRR), and a Formal Qualification Review (FQR) as specified in the TO.

3.4 PROGRAM MANAGEMENT SUPPORT SERVICES. As specified by TI, the Contractor shall provide project/program management support services to assist NAVSURFWARCENDIV Crane in carrying out its mission to develop and maintain electronic weapons systems, subsystems, equipment and components. This support shall include tasks related to planning, preparing, organizing, and reporting.

3.4.1 MANAGEMENT REPORTS AND BRIEFING PREPARATIONS. The Contractor shall develop and prepare program reports, briefings, and presentations including draft and final versions in accordance with ANSI/NISO Z39.18-87, Government Furnished Information, and as specified by TI. The Contractor shall be required to integrate text and graphics in these materials and submit the final version in the format specified by the TI.

3.4.2 PROGRAM REPORTS. As required by the Government in the TI, the Contractor shall prepare program status reports. The Contractor will be provided the source information and any particular reporting format required. These reports shall be in narrative form with graphics as appropriate to better define the information. They shall include basic program historical information, current status, and expected schedule of future events. In addition to program type reports, the Contractor shall format and publish documents such as test reports, configuration identification manuals, test procedures, etc., as specified by TI. The Contractor will be provided the source material as Government Furnished Information.

3.4.3 ADMINISTRATIVE AND CLERICAL SUPPORT. As specified by TI, the contractor shall perform general administrative and clerical support. This support covers technical and administrative services including meeting assistance, project reports, data management, data maintenance and distribution, general clerical/office administration and other tasks as assigned.

3.5 DATA MANAGEMENT AND INFORMATION TECHNOLOGY/SERVICES. The Contractor shall provide data management related support in accordance with requirements set forth in TIs issued under this Statement of Work. These tasks encompass data management procedures in data record entry, reproduction, distribution, reporting, and verification. The contractor shall provide support for information technology and services as specified by TI including programming support, web publishing, interactive software, systems administration and other tasks as assigned.

3.5.1 DATA ENTRY. As required by TI, the Contractor shall develop a data management system and provide the labor to receive and record data on both management and engineering documents associated with the electronics-related operations defined within the scope of this SOW. The Contractor shall be responsible for the maintenance of the data management system. The Contractor shall receive and record the documents from the Government, record and input the management data, verify the data inputs, and return the documents for Government disposition. Where

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applicable, the Contractor will be provided, along with the TI, written operating instructions.

3.5.2 INFORMATION TECHNOLOGY AND SERVICES. The contractor shall provide information technology and service as specified by TI. Support may include technology assessments; training curricula and systems; remote data acquisition; communications analyses; hardware and software analyses versus system requirements; computer-based systems analysis and simulation modeling; business case analysis; end user IT systems design, development, assessment and review of knowledge-based Interactive Electronic Technical Documentation; risk assessment; special projects-- including performing IT special projects, studies, analysis, and independent assessments and providing experts for studies, investigations, and other special needs; and database support-- including designing, developing, and maintaining complex databases using COTS software to support customer mission areas.

4.0 GOVERNMENT FURNISHED ITEMS

4.1 Government Furnished Information - The Government will provide all applicable technical documentation and information to the contractor as Government Furnished Information (GFI). This GFI will be provided as required or at the request of the contractor.

4.2 Government Furnished Material - Government Furnished Material (GFM) will be provided when the contractor has a requirement for special or specific Government material per specific tasking.

4.3 Government Furnished Equipment - The Government will provide all equipment and computing resources including NMCI hardware, software programs and access to required files and databases. Contractors will be required to perform work on site at NSWC, Crane due to accessibility of files and other information required to for the accomplishment of the tasks set forth in this SOW.

4.4 Government Furnished Facilities - The Government will provide access to the Center; furnish a work area within Government spaces with access to the facility resources and equipment for the performance of this SOW.

4.5 Government Owned Vehicles - The Government shall provide contractor access and authorization to operate Government owned vehicles for the purpose of transporting materials and documents to and from buildings within the NSWC Crane confines.

5.0 DATA DELIVERABLES

5.1 SCIENTIFIC AND TECHNICAL REPORTS

a. Provide the Government with Scientific and Technical Reports. Contractor Format is Acceptable.

DELIVERABLE

Item: Scientific and Technical Reports include Trip Report, Recommendations, and any other required Report.

Frequency: As Required. The Government shall provide notification of all required reports and associated due dates.

Medium: Electronic Form (either MS Word or Adobe PDF file format). Document shall be transmitted via email or accessible via the Internet.

Due Date: Contractor shall be notified of specific due dates as required.

5.2 CONFERENCE AGENDA

a. Provide the Government with Conference Agenda. Contractor Format is Acceptable.

DELIVERABLE

Item: Conference Agendas are required for each review or Technical Interchange Meeting (TIM).

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Frequency: As Required. The Government shall provide notification of all required reports and associated due dates.

Medium: Electronic Form (either MS Word or Adobe PDF file format). Document shall be transmitted via email or accessible via the Internet.

Due Date: Contractor shall be notified of specific due dates as required.

5.3 CONFERENCE/MEETING MINUTES

a. Provide the Government with Conference/Meeting Minutes. Contractor Format is Acceptable.

DELIVERABLE

Item: Conference Meeting/Minutes are required for each review or Technical Interchange Meeting (TIM).

Frequency: As Required. The government shall provide notification of all required reports and associated due dates.

Medium: Electronic Form (either MS Word or Adobe PDF file format). Document shall be transmitted via email or accessible via the Internet.

Due Date: Contractor shall be notified of specific due dates as required.

5.4 PRESENTATION MATERIAL

a. Provide the Government with Presentation Material. Format will be in accordance with Government Furnished Information (GFI).

DELIVERABLE

Item: The contractor shall provide presentation material, including briefings, formal recommendations, workload reports, cost estimates, training, and other presentation material as requested.

Frequency: As Required. The Government shall provide notification of all required presentation material and associated due dates.

Medium: Electronic Form (either MS Word or Adobe PDF file format). Document shall be transmitted via email or accessible via the Internet.

Due Date: Contractor shall be notified of specific due dates as required.

5.5 CONTRACTOR'S PROGRESS STATUS AND MANAGEMENT REPORT

a. Provide the Government with a Monthly Report. Contractor Format is Acceptable.

DELIVERABLE

Item: The Contractor shall submit a Monthly Progress report detailing completed and planned tasking and financial expenditures.

Frequency: Monthly.

Medium: Electronic Form (either MS Word or Adobe PDF file format). Document shall be transmitted via email or accessible via the Internet.

Due Date: 30 Days after contract award and monthly thereafter.

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5.6 ENGINEERING DRAWINGS

a. Provide the Government with a Monthly Report. Contractor Format is Acceptable.

DELIVERABLE

Item: The contractor shall develop and revise engineering in accordance with MIL-STD-100.

Frequency: As required.

Medium: Electronic Form (either MS Word or Adobe PDF file format). Document shall be transmitted via email or accessible via the Internet.

Due Date: Contractor shall be notified of specific due dates as required.

5.7 TECHNICAL MANUALS

a. Provide the Government with a Monthly Report. Contractor Format is Acceptable.

DELIVERABLE

Item: The Contractor shall develop and revise technical manuals in accordance with MIL-STD-100.

Frequency: As required.

Medium: Electronic Form (either MS Word or Adobe PDF file format). Document shall be transmitted via email or accessible via the Internet.

Due Date: Contractor shall be notified of specific due dates as required.

6.0 SPECIAL CONDITIONS

6.1 Security Clearance. The Contractor shall comply with Security procedures and instructions as specified by the local Government Security Department. Access to classified information is limited. Contractor personnel in contact with classified documentation and/or equipment shall have the proper level of clearance on file with the local Government Security office. A Department of Defense Form 254 shall be filed with the contract identifying the contractor's facility and safeguarding level of clearance requirements.

6.2 Travel. The Contractor may be required to travel throughout the continental United States (CONUS) and to locations outside of CONUS. Trip duration will be identified in a TI which will include the required transit time. When required to obtain access to a Government facility, ship, aircraft, or other duty station, the Contractor shall initiate requests for Need to Know Certification and submit these requests to the TOM for appropriate action.

6.3 Place of Performance. The primary work site will be Naval Surface Warfare Center Crane Division, Crane, IN.

6.4 TO Manager (TOM). The TOM for this contract is Roger Maryfield, NSWC Crane, IN, Code 0531, phone; 812-854-4898, email; roger.maryfield@navy.mil.

6.4.1 Requiring Technical Activity (RTA). The RTA contact is Clint Seyer, Code 8056, telephone (812) 854-4727.

6.5 Funding. This TI will be funded incrementally as required. Each project will be identified by CLIN/SLIN.

6.6 Safety and Health. The requirements of this order may require contractor personnel to come in contact or be exposed to hazardous conditions. The contractor shall abide by all applicable federal, local and state occupational safety and health requirements. The Government will provide Standard Operating Procedures (SOP) when applicable.

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The contractor must have on record a corporate safety plan and shall provide a copy to the COR when instructed. The contractor shall ensure all employees have appropriate Personal Protection Equipment (PPE). The contractor shall ensure employees have all required training and certifications related to Occupational Safety and Health Requirements.

6.7 Period of Performance. The period of performance is 24 months from date of award. This includes one base year with a one year option.

6.8 Control of Contractor Personnel. The Contractor shall comply with the requirements of NAVWPNSUPPCENINST 5510.1 and NAVWPNSUPPCENINST 5910.1. All persons engaged in work while on Government property shall be subject to search of their persons (no bodily search) and vehicles at any time by the Government, and shall report any known or suspected security violations to the Crane Division Security Department. Assignment, transfer, and reassignment of Contractor personnel shall be at the discretion of the Contractor. However, when the Government directs, the Contractor shall remove from contract performance any person who endangers life, property, or national security through improper conduct. All Contractor personnel engaged in work while on Government property shall be subject to the Standards of Conduct contained in SECNAVINST 5370.2J. Prior to conducting work under this contract, the contractor shall provide a list of employees that will be working on site. The employee list shall contain full names, security clearance levels, social security numbers, job titles, and original birth certificates. This list shall be updated within forty eight hours after changes occur.

6.9 Identification Badges. The Contractor shall be required to obtain identification badges from the Government for Contractor personnel to be located on Government property. The identification badge shall be visible at all times while employees are on Crane Division property. The Contractor shall furnish all requested information required to facilitate issuance of identification badges and shall conform to applicable regulations concerning the use and possession of the badges. The Contractor shall be responsible for ensuring that all identification badges issued to Contractor employees are returned to the Crane Division Security Department within forty eight hours following the completion of the contract, relocation or termination of an employee issued an identification badge, and upon request by the Contracting Officer.

6.10 Accident Reporting. The Contractor shall maintain an accurate record of and shall report all accidents to the TOM and/or the Crane Division Security Department as prescribed by OPNAVINST 5102.1.

6.11 Smoking Regulations. Smoking on Crane Division, Crane, IN premises shall be in approved areas only in accordance with NAVFAC P 1021. Smoking in vehicles is prohibited.

6.12 Overtime. Overtime shall be performed as required by the RTA and to the extent authorized by Chief of Contracting Officer. The definition of overtime is as follows: work in excess of forty hours per week or work performed on Saturday, Sunday and holidays. Overtime shall be used only upon prior approval by the TOM.

6.13 Data Rights. All data/documentation delivered/created in support of this effort becomes the property of the US Government and will be delivered without proprietary markings. The Government shall have Government Purpose rights for all Data associated to this contract.

6.14 Release of Information. All technical data provided to the Contractor shall be protected from the public. All other information relating to the items to be delivered and services to be performed under this TO may not be disclosed by any means without prior approval of the authorized representative of the Contracting Officer. Dissemination or public disclosure includes but is not limited to permitting access to such information by foreign nationals by any other person or entity or publication of technical or scientific papers or advertising or any other proposed public release. The Contractor shall provide adequate physical protection to such information so as to preclude access by any person or entity not authorized such access.

6.15 Privacy Act. Under US Code Title 5, Section 552, information accessed in completing this TO is subject to the Privacy Act.

6.16 Damage Reporting. The Contractor shall maintain an accurate record of and shall report to the TOM all damages to Government Furnished Equipment and Facilities as prescribed by OPNAVINST 5102.1.

6.17 Non-Personal Services. The Government will neither supervise contractor employees nor control the method by

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SECTION H SPECIAL CONTRACT REQUIREMENTS

MANDATORY REQUIREMENTS

The following are mandatory requirements that must be met for an offeror to be considered eligible for the order and must be maintained through the life of the order:

1. The contractor's facility supporting this requirement must have or be eligible to obtain a facility clearance and storage capability up to the SECRET level for both processing and storage.

GOVERNMENT FURNISHED PROPERTY (PERFORMANCE) (SEP 1990)(NAVSEA 5252.245-9108)

The Government will provide only that property set forth below, notwithstanding any term or condition of this contract to the contrary. Upon Contractor's written request to the cognizant Task Order Manager, via the cognizant Procuring Contract Office (NSWC Crane), the Government will furnish the following for use in the performance of this contract:

*To be identified upon issuance of Technical Instruction (TI).

TECHNICAL INSTRUCTIONS (MAY 1993) (NAVSEA 5252.242-9115)

(a) Performance of the work hereunder shall be subject to written technical instructions/technical direction letters signed by the Task Order Manager specified in Section G of this contract. As used herein, technical instructions / technical direction letters are defined to include the following:

(1) Directions to the Contractor which suggest pursuit of certain lines of inquiry, shift work emphasis, fill in details or otherwise serve to accomplish the contractual statement of work.

(2) Guidelines to the Contractor which assist in the interpretation of drawings, specifications or technical portions of work description.

(b) Technical instructions must be within the general scope of work stated in the contract. Technical instructions may not be used to:

(1) assign additional work under the contract; (2) direct a change as defined in the "CHANGES" clause of this contract; (3) increase or decrease the contract price or estimated contract amount (including fee), as applicable, the level of effort, or the time required for contract performance; or (4) change any of the terms, conditions or specifications of the contract.

(c) If, in the opinion of the Contractor, any technical instruction/technical direction letters calls for effort outside the scope of the contract or is inconsistent with this requirement, the Contractor shall notify the Procuring Contracting Officer (NSWC Crane) in writing within ten (10) working days after the receipt of any such instruction. The Contractor shall not proceed with the work affected by the technical instruction/technical direction letter unless and until the Contractor is notified by the Procuring Contracting Officer (NSWC Crane) that the technical instruction/technical direction letter is within the scope of this contract.

(d) Nothing in the foregoing paragraph shall be construed to excuse the Contractor from performing that portion of the contractual work statement, which is not affected by the disputed technical instruction/technical direction letter.

H20S INSURANCE - WORK ON A GOVERNMENT INSTALLATION

The following types of insurance are required in accordance with the clause entitled, Insurance - Work On A Government Installation (FAR 52.228-5), and shall be maintained in the minimum amounts shown:

(1) Comprehensive General Liability: \$200,000 per person and \$500,000 per accident for bodily injury.

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(2) Automobile Insurance: \$200,000 per person and \$500,000 per accident for bodily injury and \$20,000 per accident for property damage.

(3) Standard Workmen's Compensation and Employer's Liability Insurance (or, where maritime employment is involved, Longshoremen's and Harbor Worker's Compensation Insurance) in the minimum amount of \$100,000.

ALLOTMENT OF FUNDS (MAY 1993) (NAVSEA 5252.232-9104)

(a) This contract is incrementally funded with respect to both cost and fee. The amount(s) presently available and allotted to this contract for payment of fee for incrementally funded contract line item number/contract subline item number (CLIN/SLIN), subject to the clause entitled "FIXED FEE" (FAR 52.216 8) or "INCENTIVE FEE" (FAR 52.216 10), as appropriate, is specified below. The amount(s) presently available and allotted to this contract for payment of cost for incrementally funded CLINs/SLINs is set forth below. As provided in the clause of this contract entitled "LIMITATION OF FUNDS" (FAR 52.232 22), the CLINs/SLINs covered thereby, and the period of performance for which it is estimated the allotted amount(s) will cover are as follows:

Labor Information SLINs for CLIN 1100 –

SLIN	ACRN	REQN. No.	AMOUNT	TI #
110014	C5			
110015	C6			
110016	C7			
110017	C8			

H30S LIMITATION OF LIABILITY - INCREMENTAL FUNDING (JUN 2004)

This task order is incrementally funded and the amount currently available for payment hereunder is limited to _____ inclusive of fee, profit and all other charges. The clause entitled, Limitation of Funds (FAR 52.232-22) applies. The Government is not obligated to reimburse the Contractor for costs incurred in excess of this amount unless additional funds are made available and are incorporated as a modification to this task order.

H81S TRAVEL COSTS AND RESPONSIBILITIES

(a) Performance under this task order may require travel by contractor personnel. If travel, domestic or overseas, is required, the Contractor shall be responsible for making all needed arrangements for his personnel. This includes, but is not limited to, medical examinations; immunizations; passports, visas, etc. and security clearances. If any work will take place on a U.S. Navy vessel, the Contractor shall obtain boarding authorization for all contractor personnel from the Commanding Officer of the vessel. Authorization shall be obtained prior to boarding.

(b) The Government will reimburse the Contractor for allowable travel costs incurred by the Contractor in performance of the task order in accordance with FAR subpart 31.2 or 31.3 as applicable.

H83S SERVICE CONTRACT ACT WAGE DETERMINATION (JUN 2004)

The applicable Service Contract Act Wage Determinations by the Secretary of Labor are provided as attachments in Section J.

HC25S ACCESS TO GOVERNMENT SITE (JUN 2004)

(a) Contractor personnel shall comply with all current badging and security procedures required to gain access to any Government site. The Contractor shall ensure that Contractor personnel employed on any Government site become

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familiar with and obey Activity regulations. Contractor personnel shall not enter restricted areas unless required to do so and until cleared for such entry. The Contractor shall request permission to interrupt any activity roads or utility services in writing a minimum of 15 calendar days prior to the date of interruption. Contractor personnel shall bear personal protective equipment in designated areas. All contractor equipment shall be conspicuously marked for identification. The contractor shall strictly adhere to Federal Occupational Safety and Health Agency (OSHA) Regulations, Environmental Protection Agency (EPA) Regulations, and all applicable state and local requirements.

HG10S CONTRACTUAL AUTHORITY AND COMMUNICATIONS (JUN 2004)

(a) Except as specified in subparagraph (b) below, no order, statement, or conduct of any Government personnel who visit the Contractor's facilities or in any other manner communicates with Contractor personnel during the performance of this task order shall constitute a change under the Changes clause of this task order.

(b) The Contractor shall not comply with any order, direction or request of Government personnel unless it is issued in writing and signed by the Contracting Officer, or is pursuant to specific authority otherwise included as a part of this task order.

(c) The Contracting Officer is the only person authorized to approve changes in any of the requirements of this task order and, notwithstanding provisions contained elsewhere in this task order, the said authority remains solely the Contracting Officer's. In the event the contractor effects any change at the direction of any person other than the Contracting Officer, the change will be considered to have been made without authority and no adjustment will be made in the task order price to cover any increase in charges incurred as a result thereof.

WORK WEEK

(a) All or a portion of the effort under this contract will be performed on a Government installation. The normal work week shall be Monday through Friday for all straight time worked. No deviation in the normal workweek will be permitted without express advance approval in writing by the designated Ordering Officer with coordination of the using departments. In the event that the contractor fails to observe such normal work week, any costs incurred by the Government resulting therefrom, shall be chargeable o the contractor. Work on Center shall be performed during the normal work hours at that location unless differing hours are specified on the individual delivery orders.

For purposes of scheduling personnel, the contractor is hereby advised that the Government Installation will observe Federal Government holidays. The contractor is further advised that access to the Government installation may be restricted on these holidays:

New Year's Day	Birthday of Martin Luther King, Jr.
Washington's Birthday	Memorial Day
Independence Day	Labor Day
Columbus Day	Veterans Day
Thanksgiving Day	Christmas Day

(b) In the event any of the above holidays occur on a Saturday or a Sunday, then such holiday shall be observed by the Contractor in accordance with the practice as observed by the assigned Government employees at the using activity.

(c) In the event the Contractor is prevented from performance as the result of an Executive Order or an administrative leave determination applying to the using activity, such time may be charged to leave or indirect charges in accordance with the company policy.

HP10S OPTION TO EXTEND THE TERM OF THE TASK ORDER

This task order is renewable at the prices stated in Section B of the Contractor's proposal, at the option of the Government. The Contracting Officer shall give written notice, to the Contractor, of Option Year I renewal within 365 days from effective date of task order award. Such a preliminary notice of intent to renew shall not be deemed to commit the Government to renewals. If the Government exercises these options for renewal, the task order as renewed

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shall be deemed to include this option provision however, the total duration of this task order, including the exercise of any options under this clause, shall not exceed 24 months.

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SECTION I CONTRACT CLAUSES

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Note: All the provisions and clauses of SECTION I of the basic contract apply to this task order unless otherwise specified.

52.222-41 Service Contract Act (1965)

52.222-41 Service Contract Act (1965)

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SECTION J LIST OF ATTACHMENTS

Attachment 1 DD254

Attachment 2 Wage Determination