

<b>AWARD/CONTRACT</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)			RATING	PAGE OF PAGES 1   51	
2. CONTRACT (Proc. Inst. Ident.) NO. N00024-10-C-4214		3. EFFECTIVE DATE 19 Mar 2010		4. REQUISITION/PURCHASE REQUEST/PROJECT NO. N0002410NR59809			
5. ISSUED BY NAVAL SEA SYSTEMS COMMAND 1333 ISAAC HULL AVE SE - MAIL STOP 2030 WASHINGTON NAVY YARD DC 20376-2030		CODE N00024	6. ADMINISTERED BY (If other than Item 5) DCMA MARYLAND 217 EAST REDWOOD STREET, SUITE 1800 BALTIMORE MD 21202-5299			CODE S2101A	
7. NAME AND ADDRESS OF CONTRACTOR (No., street, city, county, state and zip code) DRS C3 SYSTEMS, INC. JOSHUA HEEBNER 160 SALLITT DR STE 200 STEVENSVILLE MD 21666-2154				8. DELIVERY [ ] FOB ORIGIN [X] OTHER (See below)		9. DISCOUNT FOR PROMPT PAYMENT	
				10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN:		ITEM  <b>Block 6</b>	
CODE 5TN22		FACILITY CODE		12. PAYMENT WILL BE MADE BY DFAS COLUMBUS CENTER, SOUTH ENTITLEMENT O P.O. BOX 182264 COLUMBUS OH 43213-2264		CODE HQ0338	
11. SHIP TO/MARK FOR  <b>See Schedule</b>		CODE		14. ACCOUNTING AND APPROPRIATION DATA <b>See Schedule</b>			
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: [ ] 10 U.S.C. 2304(c)( ) [ ] 41 U.S.C. 253(c)( )				14. ACCOUNTING AND APPROPRIATION DATA <b>See Schedule</b>			
15A. ITEM NO.	15B. SUPPLIES/ SERVICES		15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT	
<b>SEE SCHEDULE</b>							
<b>15G. TOTAL AMOUNT OF CONTRACT</b>						<b>\$7,935,427.00</b>	
16. TABLE OF CONTENTS							
(X)	SEC.	DESCRIPTION	PAGE(S)	(X)	SEC.	DESCRIPTION	PAGE(S)
<b>PART I - THE SCHEDULE</b>				<b>PART II - CONTRACT CLAUSES</b>			
X	A	SOLICITATION/ CONTRACT FORM	1	X	I	CONTRACT CLAUSES	30 - 50
X	B	SUPPLIES OR SERVICES AND PRICES/ COSTS	2 - 10	<b>PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS</b>			
X	C	DESCRIPTION/ SPECS./ WORK STATEMENT	11 - 21	X	J	LIST OF ATTACHMENTS	51
X	D	PACKAGING AND MARKING	22	<b>PART IV - REPRESENTATIONS AND INSTRUCTIONS</b>			
X	E	INSPECTION AND ACCEPTANCE	23	K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS		
X	F	DELIVERIES OR PERFORMANCE	24		L	INSTRS., CONDS., AND NOTICES TO OFFERORS	
X	G	CONTRACT ADMINISTRATION DATA	25	M	EVALUATION FACTORS FOR AWARD		
X	H	SPECIAL CONTRACT REQUIREMENTS	26 - 29				
<b>CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE</b>							
17. [X] CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return _____ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)				18. [ ] AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number _____ including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.			
19A. NAME AND TITLE OF SIGNER (Type or print)				20A. NAME OF CONTRACTING OFFICER TIMOTHY A. STARKER / SEA 024 - CONTRACTING OFFICER TEL: 202-781-3944 EMAIL: Timothy.Starker@navy.mil			
19B. NAME OF CONTRACTOR		19C. DATE SIGNED		20B. UNITED STATES OF AMERICA  <i>Timothy A. Starker</i> BY _____ (Signature of Contracting Officer)		20C. DATE SIGNED 19-Mar-2010	

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Integrated Power System Research and Development activities associated with the development of Integrated Power System Advanced Modules and IPS Ship Design Tools. FOB: Destination PURCHASE REQUEST NUMBER: N0002410NR59809 CPFF		Lot		\$2,674,791.00
				ESTIMATED COST	\$2,477,579.00
				FIXED FEE	\$197,212.00
				TOTAL EST COST + FEE	<u>\$2,674,791.00</u>

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000101	FOR FUNDING PURPOSES ONLY				\$0.00

FOB: Destination  
PURCHASE REQUEST NUMBER: N0002410NR59809

				NET AMT	
	ACRN AA				\$700,000.00
	CIN: 00000000000000000000000000000000				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Data for CLIN 0001		Lot		NSP

Data for CLIN 0001 in accordance with the attached DD Form 1423. Not separately priced. Price to be included in the prices of CLIN 0001  
 FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	Engineering Services See Note A.		Man Hours		\$5,060,636.00
	Estimated costs includes 30,000 hours FOB: Destination CPFF				
				ESTIMATED COST	\$4,687,419.00
				FIXED FEE	\$373,217.00
				TOTAL EST COST + FEE	<u>\$5,060,636.00</u>

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	Support for Engineering Services Cost Only		LO		\$200,000.00
	See Note B FOB: Destination				
				ESTIMATED COST	\$200,000.00

**NOTE A** - The Government will fund these items as needed during the contract performance via Technical Instructions. Engineering Services includes incidental materials (See Section C).

**NOTE B:** The Government will fund this item as needed during contract performance. Support for Engineering Services includes travel and subsistence (See Section C) on a cost only basis, with no provision for fee.

## CLAUSES INCORPORATED BY FULL TEXT

## CONTRACT SUMMARY FOR PAYMENT OFFICE (COST TYPE) (FEB 1997)

This entire contract is cost type.

Note: This is a Cost Plus Fixed Fee Completion (CLIN 0001), Cost Plus Fixed Fee, Level of Effort (CLIN 0003) and Cost Only (CLIN 0004).

<u>ITEM</u>	<u>ESTIMATED COST</u>	<u>FIXED FEE</u>	<u>TOTAL AMOUNT</u>	<u>MAN-HOURS</u>
0001	\$2,477,579	\$197,212	\$2,674,791	15,899
0003	\$4,687,419	\$373,217	\$5,060,636	30,000
0004	\$ 200,000	\$ 0	\$ 200,000	
<b>GRAND TOTAL</b>	<b>\$7,164,998</b>	<b>\$570,429</b>	<b>\$7,935,427</b>	<b>45,899</b>

## LIMITATION OF COST/LIMITATION OF FUNDS (NAVSEA) (SEP 1990)

The clause entitled "LIMITATION OF COST" (FAR 52.232-20) or "LIMITATION OF FUNDS" (FAR 52.232-22), as appropriate, shall apply separately and independently to each separately identified estimated cost.

## 252.204-7006 BILLING INSTRUCTIONS (OCT 2005)

When submitting a request for payment, the Contractor shall--

- (a) Identify the contract line item(s) on the payment request that reasonably reflect contract work performance; and
- (b) Separately identify a payment amount for each contract line item included in the payment request.

(End of clause)

## 252.232-7003 ELECTRONIC SUBMISSION OF PAYMENT REQUESTS AND RECEIVING REPORTS (MAR 2008)

- (a) Definitions. As used in this clause--

(1) Contract financing payment and invoice payment have the meanings given in section 32.001 of the Federal Acquisition Regulation.

(2) Electronic form means any automated system that transmits information electronically from the initiating system to all affected systems. Facsimile, e-mail, and scanned documents are not acceptable electronic forms for submission of payment requests. However, scanned documents are acceptable when they are part of a submission of a payment request made using Wide Area WorkFlow (WAWF) or another electronic form authorized by the Contracting Officer.

(3) Payment request means any request for contract financing payment or invoice payment submitted by the Contractor under this contract.

(b) Except as provided in paragraph (c) of this clause, the Contractor shall submit payment requests and receiving reports using WAWF, in one of the following electronic formats that WAWF accepts: Electronic Data Interchange, Secure File Transfer Protocol, or World Wide Web input. Information regarding WAWF is available on the Internet at <https://wawf.eb.mil/>.

(c) The Contractor may submit a payment request and receiving report using other than WAWF only when--

(1) The Contracting Officer authorizes use of another electronic form. With such an authorization, the Contractor and the Contracting Officer shall agree to a plan, which shall include a timeline, specifying when the Contractor will transfer to WAWF;

(2) DoD is unable to receive a payment request or provide acceptance in electronic form;

(3) The Contracting Officer administering the contract for payment has determined, in writing, that electronic submission would be unduly burdensome to the Contractor. In such cases, the Contractor shall include a copy of the Contracting Officer's determination with each request for payment; or

(4) DoD makes payment for commercial transportation services provided under a Government rate tender or a contract for transportation services using a DoD-approved electronic third party payment system or other exempted vendor payment/invoicing system (e.g., PowerTrack, Transportation Financial Management System, and Cargo and Billing System).

(d) The Contractor shall submit any non-electronic payment requests using the method or methods specified in Section G of the contract.

(e) In addition to the requirements of this clause, the Contractor shall meet the requirements of the appropriate payment clauses in this contract when submitting payments requests.

(End of clause)

#### EXPEDITING CONTRACT CLOSEOUT (NAVSEA) (DEC 1995)

(a) As part of the negotiated fixed price or total estimated amount of this contract, both the Government and the Contractor have agreed to waive any entitlement that otherwise might accrue to either party in any residual dollar amount of \$500 or less at the time of final contract closeout. The term "residual dollar amount" shall include all money that would otherwise be owed to either party at the end of the contract, except that, amounts connected in any way with taxation, allegations of fraud and/or antitrust violations shall be excluded. For purposes of determining

residual dollar amounts, offsets of money owed by one party against money that would otherwise be paid by that party may be considered to the extent permitted by law.

(b) This agreement to waive entitlement to residual dollar amounts has been considered by both parties. It is agreed that the administrative costs for either party associated with collecting such small dollar amounts could exceed the amount to be recovered.

PAYMENT FOR ENGINEERING SERVICES AND SUPPORT (NAVSEA) (JAN 2008)  
(Applicable to CLINs 0003 and 0004)

*(a) Invoices for engineering services and overtime shall contain the name(s) of engineer(s), date(s) and place(s) of performance, and a brief description of the services performed. This information may be included in the Comments tab of the applicable WAWF document. Each invoice shall be accompanied by a copy of the authorization for services and the original certification of performance. These documents may be attached to the invoice as described in the Invoice Instructions in Section G. A copy of each invoice shall be furnished to the applicable NAVSEA/DRPM/PEO code identified in Section C under Engineering Services.*

(b) Invoices for subsistence and transportation shall be supported by a statement of actual costs incurred by the Contractor and claimed to be reimbursable and shall be in such form and reasonable detail as required by the cognizant Defense Contract Audit Agency (DCAA). The Government shall make provisional payment after submission of each invoice and statement of costs. At any time prior to final payment, DCAA may audit the invoice(s) and statement(s) of costs, as appropriate.

(c) Each provisional payment for subsistence and transportation costs shall be subject to reduction to the extent any amount included in the related invoice and statement of costs is found not to be reimbursable under the support item(s) and shall also be subject to reduction for overpayment or to increase for underpayment on preceding invoices. Any disputes under this requirement shall be determined in accordance with the clause of this contract entitled "DISPUTES" (FAR 52.233-1).

PAYMENTS OF FEE (S) (COMPLETION) (NAVSEA) (MAY 1993)  
(Applicable to CLIN 0001)

(a) For purposes of this contract, "fee" means "target fee" in cost-plus-incentive-fee type contracts, "base fee" in cost-plus-award-fee type contracts, "fixed fee" in cost-plus-fixed-fee type contracts for completion and phase type contracts.

(b) The Government shall make payments to the Contractor, subject to and in accordance with the clause in this contract entitled "FIXED FEE" (FAR 52.216-8) or "INCENTIVE FEE", (FAR 52.216-10), as applicable. Such payments shall be equal to eight percent (8%) of the allowable cost of each invoice submitted by and payable to the Contractor pursuant to the clause of this contract entitled "ALLOWABLE COST AND PAYMENT" (FAR 52.216-7), subject to the withholding terms and conditions of the "FIXED FEE" or "INCENTIVE FEE" clause, as

applicable (percentage of fee is based on fee dollars divided by estimated cost dollars, including facilities capital cost of money). Total fee(s) paid to the Contractor shall not exceed the fee amount(s) set forth in this contract.

(c) In the event of discontinuance of the work under this contract, or any specified phase of the contract, in accordance with the clause of this contract entitled "LIMITATION OF FUNDS" (FAR 52.232-22) or "LIMITATION OF COST" (FAR 52.232-20), as applicable, the fee shall be equitably adjusted by mutual agreement to reflect the diminution of work. If the adjusted fee is less than the sum of all fee payments made to the Contractor under this contract, the Contractor shall repay the excess amount to the Government. If the adjusted fee exceeds all payments made to the Contractor under this contract, the Contractor shall be paid the additional amount, subject to the availability of funds. In no event shall the Government be required to pay the Contractor any amount in excess of the funds obligated under this contract at the time of the discontinuance of work.

(d) Fee(s) withheld pursuant to the terms and conditions of this contract shall not be paid until the contract has been modified to reduce the fee(s) in accordance with paragraph (c) above, or until the Procuring Contracting Officer has advised the paying office in writing that no fee adjustment is required.

PAYMENTS OF FEE(S) (LEVEL OF EFFORT) (NAVSEA) (MAY 1993)  
(Applicable to CLIN 0003)

(a) For purposes of this contract, "fee" means "target fee" in cost-plus-incentive-fee type contracts, "base fee" in cost-plus-award-fee type contracts, or "fixed fee" in cost-plus-fixed-fee type contracts for level of effort type contracts.

(b) The Government shall make payments to the Contractor, subject to and in accordance with the clause in this contract entitled "FIXED FEE" (FAR 52.216-8) or "INCENTIVE FEE", (FAR 52.216-10), as applicable. Such payments shall be equal to eight percent (8%) of the allowable cost of each invoice submitted by and payable to the Contractor pursuant to the clause of this contract entitled "ALLOWABLE COST AND PAYMENT" (FAR 52.216-7), subject to the withholding terms and conditions of the "FIXED FEE" or "INCENTIVE FEE" clause, as applicable (percentage of fee is based on fee dollars divided by estimated cost dollars, including facilities capital cost of money) Total fee(s) paid to the Contractor shall not exceed the fee amount(s) set forth in this contract.

(c) The fee(s) specified in SECTION B, and payment thereof, is subject to adjustment pursuant to paragraph (g) of the special contract requirement entitled "LEVEL OF EFFORT." If the fee(s) is reduced and the reduced fee(s) is less than the sum of all fee payments made to the Contractor under this contract, the Contractor shall repay the excess amount to the Government. If the final adjusted fee exceeds all fee payments made to the contractor under this contract, the Contractor shall be paid the additional amount, subject to the availability of funds. In no event shall the Government be required to pay the Contractor any amount in excess of the funds obligated under this contract at the time of the discontinuance of work.

(d) Fee(s) withheld pursuant to the terms and conditions of this contract shall not be paid until the contract has been modified to reduce the fee(s) in accordance with the "LEVEL OF EFFORT" special contract requirement, or until the Procuring Contracting Officer has advised the paying office in writing that no fee adjustment is required.

#### TRAVEL COSTS (NAVSEA) (MAY 1993)

- (a) The Contractor shall not charge, and the Government shall not pay, as an allowable cost under this contract, any manhour costs (whether straight-time or overtime) for Contractor personnel or subcontractor personnel traveling to or from worksites, including travel to worksites other than the Contractor's facility for performance of contract work.
- (b) Workers being paid under this contract, as prime contractor personnel or subcontractor personnel, will complete a full shift at the worksite, and no compensation will be paid for travel time before or after the shift.
- (c) This requirement pertains only to payments for travel time before or after these workers' regular shifts, and does not apply to legitimate travel costs incurred during normal working hours, provided that those costs are otherwise reasonable, allocable and allowable. This requirement does not apply to manufacturer's representatives or Original Equipment Manufacturer (OEM) representatives when specifically required by the Government work specifications.
- (d) Additionally, the Contractor shall not charge, and the Government shall not pay, any transportation costs under this contract associated with transporting Contractor or subcontractor personnel between the Contractor's facility (or subcontractor's facility), and any other worksite to perform Phased Maintenance Availabilities (PMAs)/Drydocking Phased Maintenance Availabilities (DPMAs). Transportation costs include, but are not limited to, bus fare, car fare, train fare, or boat fare, paid by the work force, or paid by the Contractor on behalf of the work force.

#### PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CITATIONS (NAVSEA) (JAN 2008)

Applicable to (ALL CLINS)

For contracts or orders that 1) include contract line items that are funded by multiple accounting classification citations for which a contract line item or items are not broken out into separately identifiable subline items (informational subline items are not separately identifiable subline items); 2) contain cost-reimbursement or time-and-material or labor-hour line items; or 3) authorize financing payments, the payment office will make payment from each ACRN within the contract or order in the same proportion as the amount of funding currently unliquidated for each ACRN (*contract-wide: proration*).

#### INVOICE INSTRUCTIONS (NAVSEA) (SEP 2009)

(a) In accordance with the clause of this contract entitled "ELECTRONIC SUBMISSION OF PAYMENT REQUESTS" (DFARS 252.232-7003), the Naval Sea Systems Command (NAVSEA) will utilize the DoD Wide Area Workflow Receipt and Acceptance (WAWF) system to accept supplies/services delivered under this contract. This web-based system located at <https://wawf.eb.mil> provides the technology for government contractors and authorized Department of Defense (DoD) personnel to generate, capture and process receipt and payment-related documentation in a paperless environment. Invoices for supplies/services rendered under this contract shall be submitted electronically through WAWF. Submission of hard copy DD250/invoices may no longer be accepted for payment.



((b) It is recommended that the person in your company designated as the Central Contractor Registration (CCR) Electronic Business (EB) Point of Contact and anyone responsible for the submission of invoices, use the online training system for WAWF at <http://wawftraining.com>. The Vendor, Group Administrator (GAM), and sections marked with an asterisk in the training system should be reviewed. Vendor documentation is available under Resources at <http://wawftraining.com>.

(c) The designated CCR EB point of contact is responsible for activating the company’s CAGE code on WAWF by calling 1-866-618-5988. Once the company is activated, the CCR EB point of contact will self-register under the company’s CAGE code on WAWF and follow the instructions for a group administrator. After the company is set-up on WAWF, any additional persons responsible for submitting invoices must self-register under the company’s CAGE code at <https://wawf.eb.mil>.

(d) The contractor shall use the following document types, DODAAC codes and inspection and acceptance locations when submitting invoices in WAWF:

Type of Document(s) *(contracting officer check all that apply)*

- Invoice (FFP Supply & Service)
- Invoice and Receiving Report Combo (FFP Supply)
- Invoice as 2-in-1 (FFP Service Only)
- Cost Voucher (Cost Reimbursable, T&M , LH, or FPI)
- Receiving Report (FFP, DD250 Only)

DODAAC Codes and Inspection and Acceptance Locations *(contracting officer complete appropriate information as applicable)*

Issue DODAAC	<u>N00024</u>
Admin DODAAC	<u>S2101A</u>
Pay Office DODAAC	<u>HQ0338</u>
Inspector DODAAC	<u>N00024</u>
Service Acceptor DODAAC	<u>N00024</u>
Service Approver DODAAC	<u>N00024</u>
Ship To DODAAC	<u>See Section F</u>
DCAA Auditor DODAAC	<u>N/A</u>
LPO DODAAC	<u>N/A</u>
Inspection Location	<u>See Section E</u>
Acceptance Location	<u>See Section E</u>

Attachments created in any Microsoft Office product may be attached to the WAWF invoice, e.g., backup documentation, timesheets, etc. Maximum limit for size of each file is 2 megabytes. Maximum limit for size of files per invoice is 5 megabytes.

(e) Before closing out of an invoice session in WAWF, but after submitting the document(s), you will be prompted to send additional email notifications. Click on “Send More Email Notification” and add the acceptor/receiver email addresses noted below in the first email address block, and add any other additional email addresses desired in the following blocks. This additional notification to the government is important to ensure that the acceptor/receiver is aware that the invoice documents have been submitted into WAWF.

<b>Send Additional Email Notification To:</b>
joseph.tannenbaum@navy.mil

(f) The contractor shall submit invoices/cost vouchers for payment per contract terms and the government shall process invoices/cost vouchers for payment per contract terms. Contractors approved by DCAA for direct billing will submit cost vouchers directly to DFAS via WAWF. Final voucher submission will be approved by the ACO.

(g) If you have any questions regarding WAWF, please contact the WAWF helpdesk at the above 1-866 number or the NAVSEA WAWF point of contact Margaret Morgan at (202) 781-4815 or [margaret.morgan@navy.mil](mailto:margaret.morgan@navy.mil).

## Section C - Descriptions and Specifications

**ITEM 0001 - RESEARCH AND DEVELOPMENT ACTIVITIES ASSOCIATED WITH THE DEVELOPMENT OF INTEGRATED POWER SYSTEM ADVANCED MODULES AND IPS SHIP DESIGN TOOLS**

1.1 The Contractor shall provide services, materials, facilities and personnel necessary to perform the tasks identified below.

1.2 The Contractor shall provide program management, planning, control, subcontracts management, schedule accounting and control, and cost accounting and control. The Contractor shall develop and maintain a Program Plan. The Program Plan shall include an event-based schedule, reflecting how the effort will be executed, including timing of reviews. The schedule shall be developed in a manner that reflects the Contractor's customary way of organizing projects, provides insight into the relationship between project events and cost projections, and shall include the content and be of a format agreed to by the Government. Cost, man-hours and schedule data shall be provided to the Government electronically during the execution of the effort as a part of the Progress Report and shall follow the format dictated in Attachment 2 of this contract. The Navy reserves the right to conduct an in-plant visit to the Contractor to review implementation of the Contractor's cost and schedule management system and to understand the methods the Contractor utilizes to determine progress. The intent is to ensure maximum visibility of the Contractor's technical, cost and schedule performance and coordination with Government efforts. The Contractor shall assess potential risks associated with achievement of technical, cost, and schedule requirements and define methods or alternatives to mitigate or minimize these risks, including the identification of criteria upon which decisions can be based.

1.3 The Contractor shall submit a monthly Progress Report that reflects the technical, schedule, and cost status of the effort. The Progress Report shall contain the following information:

Planned efforts and costs: The Contractor shall provide a copy of the schedule established in the Program Plan that has been updated to reflect changes to planned tasks/milestones. The Contractor shall provide a brief description of the work envisioned for the ensuing reporting period highlighting any changes to the schedule, the objectives of those efforts, and an estimate of costs and man-hours associated with planned efforts. The Contractor shall note significant accomplishments and identification of major problems/deficiencies with impact and recommended solutions. The Contractor should identify any technical risks/challenges or problems anticipated in the next reporting period.

Actual efforts and costs: The Contractor shall provide a copy of the schedule updated to reflect work performed during the current reporting period. The Navy expects the Contractor to maintain one schedule that will be updated monthly for both planned and actual efforts. The Contractor shall detail work performed during the current reporting period and associated financial status. Include an overall status of each milestone, task, or unit of work. The Contractor shall document significant results of conferences, trips, or directives from the Government's representatives. The Contractor shall maintain an action list for programmatic and technical items that arise during the course of the effort and a status of deliverable items.

1.4 The Contractor shall plan, conduct and document meetings and reviews held between the Navy and the Contractor as necessary. The Contractor and the Navy shall develop agendas for meetings jointly via electronic mail. The Contractor shall prepare Meeting Minutes which document all material presented, key discussions and decisions made, and any action items which have arisen as a result of any meeting with the Navy or the Navy's representatives. Reviews shall be coordinated with major milestones and shall be scheduled to occur at a minimum of a quarterly basis. Contractor personnel shall be available for informal conferences as required throughout performance to discuss the direction, progress, and/or significant problems encountered, and to discuss technical and fiscal information required for performance.

**1.5 Development of Ship Design Tools that support the design development of advanced IPS ship concepts and that quantifies technical risks associated with the integrated technology.** IPS concepts create opportunities for major innovations in shipboard arrangements, including the configuration of propulsors external to the hull, which in turn creates a need for advanced predictive capabilities in hydrodynamics and dynamic stability. The net result of the Contractor's modeling and design tool capability development effort, as specified herein, is to enable NAVSEA to effectively translate future threat and mission requirements into comprehensively analyzed advanced ship and craft concepts that address the stipulated future requirements. The hydrodynamic and dynamic stability computational tools resulting from the effort will enable effective trade-off studies of alternative IPS system configurations with their associated variations on hull, propulsor, arrangements, and weight and stability characteristics. These computational tools can thereby influence the design development of advanced IPS ship concepts and at the same time mitigate risks associated with the new ship concepts. The technical objectives shall be achieved by the Contractor through a twofold development and application program: 1) Develop an Advanced Hydrodynamics Simulation Tool and related ship design software; and, 2) Develop an Advanced Design, Modeling & Simulation Tool for capability-based ship design that includes IPS technology.

**1.5.1** The Contractor shall Develop an **Advanced Hydrodynamics Simulation Tool** and related ship design software. The Contractor shall develop hydrodynamic numeric simulation code capable of assessing new hull form concepts operating under expected natural operating environments, including extreme sea conditions that present risk of extreme events including high accelerations, extreme rolls, broach and/or capsize. Simulated data developed by the hydrodynamic code shall be in a format compatible with providing operator training and guidance and the development of a safe operating envelope (SOE). Since restrictions defined in an SOE can conflict with required warfighting and natural operating environments, the Contractor shall ensure that risk is accurately quantified through rigorous modeling of the ship operating in its specified environments to maximize operational capability. The Contractor shall develop computational and analytic tools that are mathematically consistent, accurate, and complete physics models that predict hydrodynamic performance of the total ship system sensitive to the bounds of ship sub-system and component performance constraints. The Contractor shall develop the code to quantify the bounds of statistical confidence, balancing computational fidelity and efficiency. The Contractor shall include the capability within performance models to include ship, sub-system and component cost (both acquisition cost and operational/life-cycle cost).

**1.5.1.1 Computational Tool Development.** The Contractor shall develop Computational Tools using the following processes:

- **Code Architecture** - This task involves creating and maintaining an overall code architecture and framework to support this effort. It is intended that this be an Open Architecture that provides the capability to extend, re-organize, and modify the engineering elements over time with minimal impact on the overall program structure. It is anticipated that the components within this architecture will be re-usable and that the simulation code may be configured to run in different modes depending upon the client. The Advanced Hydrodynamics Simulation Tool shall be developed in state-of-art software languages and software development environments, for example, the source code and other documents requiring source/configuration control shall be maintained using Microsoft's Team Foundation Server and its related client components on the Contractor's computers and network. Performance shall enable these documents to be mirrored on other sites in the future to allow expanded access to these documents.
- **Organize and Manage Code Development Activities** - This task involves organizing and coordinating the various code development activities. It is anticipated that the code elements and algorithms will be developed by a diverse group of naval architects, engineers, and scientists, so it is essential that their efforts be coordinated and integrated into the overall code development framework, and the Contractor shall provide guidance with regard to coding methodologies as necessary.
- **Implement Code** - This task involves the implementation of the framework and most of the business tier components. It is intended that the coding effort will be distributed amongst several entities, especially in the presentation and data persistence tiers, implementation of the business tier components requires an intimate understanding of not only good coding practices, but also the engineering and physics involved.
- **Document Code** - This task involves providing and maintaining code documentation contemporaneously with the actual code development. To facilitate understanding and ongoing maintenance, modification, and

extension of the code, it is essential that up-to-date documentation exist for the developed components and libraries. The Contractor shall ensure that the methodologies utilized include contemporaneous code and documentation development.

- **Supervise Software Verification** - This task involves establishing and overseeing a formal verification process for code developed. All modern software development practices, especially agile development methodologies such as the Unified Process (UP) and eXtreme Programming, advocate design and implementation protocols that emphasize the need for iterative code development cycles and ongoing verification and validation. It is expected that the Contractor shall identify such protocols and tools as necessary to ensure that the developed code is documented and verified from inception and throughout its lifetime, rather than as a post-coding activity. Code verification shall rely on the consistent implementation of unit testing. Writing units tests is an integral part of the code development process, but the logic embodied in the tests may come from many sources, including advisory panels. The methodology for program validation shall be developed in concert with NAVSEA and NSWCCD personnel in a manner consistent with the experimental and theoretical data available and with procedures established by the NAVSEA Dahlgren Accreditation Team (NDAT, NSWCCD N14). The Contractor shall support Government direct and indirect validation efforts through provision of dynamic stability simulation software controllers permitting correlation with constrained sub-scale physical model testing.

1.5.1.2 **Model Test Support, Correlation, and Data Analysis.** The objective of the effort described is to formally review model test data to determine if dynamic stability correlation precursors exist and if so, whether they may be a useful part of the operator guidance system to reduce platform risk. Additionally, this effort may be used in support of the Operator Guidance (OG) and Safe Operating Envelope (SOE) activities outlined in other sections of this Statement of Work (SOW), where it is expected to be combined with simulation results via response surfaces.

- **Empirical Review** – NAVSEA and NSWCCD personnel have been processing and analyzing the data collected during dynamic stability tests conducted at several model scales. Based on the data and analyses provided, the Contractor shall assess and identify any Government Furnished Information (GFI), empirical or otherwise, which might define what correlation precursors to dynamic stability failure events exist.
- **Formal Data Review** - The second task item is to review the data collected during all phases of dynamic stability testing (GFI) with the goals of (a) identifying the relevant data channels which could be involved in a dynamic stability failure event precursor and (b) identifying any unique trends in those channels leading up to an event. The formal data review may also involve categorizing runs in terms of observed/measured dynamic stability performance and then comparing runs across categories to identify which data channels show significant differences between runs with “good” and “poor” dynamic stability performance. The review shall focus initially on that information gleaned from the Empirical Review task above but might be expanded to consider other less obvious data channels. Potential issues to focus on include divergence between measured speed over ground (SOG) and speed through the water (SOW) leading up to a dynamic stability event, as well as atypical patterns in measured roll and pitch angles and rates. This task shall be based predominantly on a review of measured time histories but may also require the use of video data collected during the tests. There may be a need for additional post-processing of data to address limitations of some of the model instrumentation (e.g. GPS), which may require development of custom analysis software.
- **Non-linear Time Series Analysis** - The Contractor shall perform non-linear time series analyses on the data to identify precursors to dynamic stability events. Phase portraits shall be developed for selected channels to identify divergent behavior prior to a dynamic stability failure event and safe basin plots and Lyapunov exponents computed as a measure of chaotic behavior. Custom software development may be required for this purpose. To the extent possible, any software or methodologies developed in support of this task shall be built upon the Advanced Hydrodynamics Simulation Tool code base and standards, e.g. sharing common file formats, so that precursors found in experimental data could be applied equally to simulation-derived time histories.
- **Correlation Conclusions/Recommendations** - The Contractor shall work with the appropriate NAVSEA and NSWCCD Code 5500 personnel to draw conclusions as to whether any correlation precursors to dynamic stability events can be reliably identified. Recommendations for additional investigations shall be made to improve reliability and ultimately to develop an algorithm which can be employed in an operator

guidance system. A white paper shall be delivered (under CDRL ELIN A004) with the results of the analysis and a description of any correlation precursors to dynamic stability events that could be reliably identified.

**1.5.1.3 Full Scale Ship Trials and Operations.** The Contractor shall support activities related to the seakeeping and hydrodynamic aspects of full scale ship trials and operations. This includes developing Trails Plans and data acquisition system specifications, supporting the onboard collection of data, and the analysis, post-processing and correlation of the trials data with simulation data. Trails and data from ship operations shall also be used to evaluate and refine response surfaces associated with seakeeping and dynamic stability performance, Safe Operating Envelope (SOE) and Operator Guidance (OG). The Contractor may be required to support operator training simulators; the evolution of hydrodynamic simulation tools to incorporate advanced computational fluid dynamics (CFD) methods and codes; and the simulation of ship operations involving multiple platforms such as launch and recovery of unmanned surface, undersea or airborne vehicles as well as traditional boat operations.

**1.5.1.4 FREDYN Verification, Validation and Accreditation (VV&A).** The Contractor shall provide support to ship dynamic model and simulation software technical expertise as a member of the "Modeling & Simulation Proponent" (MSP) panel. This panel is established for the Verification, Validation and Accreditation (VV&A) of the FREDYN Modeling & Simulation (M&S) tool. The MSP is comprised of developers, maintainers, modifiers, or users of Modeling and Simulation software designated for VV&A. The MSP for FREDYN is comprised of personnel from NSWCCD, USCG, MARIN, and Subject Matter Experts. As a member of the MSP, the Contractor shall perform the following:

- Provide a POC to the Accreditation Review Panel (ARP) Chair.
- Assist the ARP in drafting the Accreditation Plan.
- Provide Configuration Management/M&S plans to the Simulation Control Panel (SCP).
- Develop and deliver V&V plans to SCP.
- Execute V&V plans upon approval by the SCP.
- Develop and deliver the V&V reports to the SCP.
- Provide VV&A status for M&S catalog updates.
- **Review and Refine the V&V Plan** – The Contractor shall review and refine the existing V&V Plan to bring it up to date with the current state of the FREDYN V&V program. Incorporate other MSP panel members' comments into the baseline document updated in previous tasking.
- **V&V Report** – The Contractor shall review the technical data package produced by the team in support of the FREDYN VV&A program; support the development of the V&V Report(s) required by the V&V Plan for submission to the (SCP); incorporate other MSP panel members' comments into the baseline documents generated and/or updated in previous tasking; and, verify data consistency across reports.
- **Briefing Support** – The Contractor shall support the continuing briefing process of the V&V material and provide technical insight as needed to answer questions raised by the SCP.

**1.5.1.4 Safe Operating Envelope (SOE) Development and Operator Guidance (OG) Support.** The Contractor shall provide the following technical support for SOE and OG development:

- **Development of Response Surface Methodology** – The Contractor shall develop the methods for producing response surfaces that capture the significant time-to-event statistics and confidence levels from a variety of data sources. The data sources shall include time histories from both analytic simulations and various model tests.
- **Development of Production Tool for SOE Response Surfaces** – The Contractor shall transition the prototype response surface tools developed in the previous task section to a production quality tool for generation of response surfaces and databases to be used for SOE definition.
- **Data Planning and Production** – The Contractor shall support the planning process for the generation the database(s) that will be used to create SOE's and their supporting response surfaces.

**1.5.2** The Contractor shall develop an **Advanced Design, Modeling & Simulation Tool** for capability-based ship design that includes IPS technology. These developments enable a capability-based total ship quantification of cost versus operational effectiveness through physics-based characterization of enabling technologies. Cost models

will be developed and adapted from existing models such that cost estimating relationships (CERs) are coupled directly with engineering models of the ship and systems. The analytical tools that result from this development shall be applied to conventional naval surface combatants, as well to high speed ships and craft, including multi-hull. The tools shall support the definition of mobility, survivability and warfighting operational effectiveness of advanced ship concepts that use new technologies for major hull, mechanical, electrical and combat/weapons systems. The Contractor shall develop computational and analytic tools enabling new ship design and performance assessment across multiple combatant ship functional disciplines, including: hull form and hydrodynamics; shipboard arrangements (including machinery); structural design to seaway loads and weapon effects and analysis including reliability-based methods; dynamic loads attributed to natural and warfighting environmental effects; propulsion and electrical systems design, including IPS systems; combat and weapons systems integration with the overall ship design; and survivability, including susceptibility, vulnerability, and recoverability.

1.5.2.1 Capability-Based Requirements Models and Tools shall establish standard format descriptions for Mission Areas, Projected Operating Environment (POE), and Required Operational Capabilities (ROC). Mission Task Analysis networks shall be developed to define the data sets included in the warfighting, survivability, and mobility models used to define the operational sufficiency of each stage of a mission execution.

1.5.2.2 The Contractor shall develop Physics-Based System Performance and Cost Assessment Tools that are an extensible set of physics-based design and analysis tools focused on the needs of IPS enabled naval ship and craft platforms, including a full spectrum of naval architecture, marine engineering and combatant ship design disciplines. A robust set of cost-estimating models are necessary that are directly coupled to the engineering models of the ship such that engineering changes directly affect ship cost.

1.5.2.3 The Contractor shall develop a System-of-Systems Network Modeling & Simulation. The system provides the structure that defines interfaces and provides data from system peculiar performance models that support multiple levels of modeling and simulation, facilitating the implementation of a 'system-of-systems' paradigm. This capability enables individual naval platform modeling and design, and enables multiple platforms of the same type or of a mix of different ships and craft (including surface, subsurface, airborne, and autonomous vehicles) to be assembled into a functional network that simulates a tactical mission scenario. This capability supports Force Architecture evaluation and cost versus mission-effectiveness assessment.

1.5.3 The Contractor shall identify the modeling requirements for implementing the model/tool for a notional integrated motor/propulsor design. The Contractor shall define and participate in component/system level experimentation and demonstration with model hardware and/or simulations necessary to reduce risk of achieving the cost/performance characterizations used in the IPS ship application studies. The Contractor shall integrate existing electromechanical, power systems, and hydrodynamic tool sets supporting advance IPS system design.

**1.6 System Engineering & Integration of Components Under Development.** The Contractor shall perform Requirements Analysis to transition the top level requirements into detailed design, performance and operational environment requirements from which system configuration items (e.g. subsystem and major components) can be designed, integrated and tested. The Contractor shall perform Interface Management to define and coordinate interface requirements. The Contractor shall provide a process for establishing a configuration baseline of system design documentation and for managing changes to that baseline. The Contractor shall conduct analyses to identify potential safety mishaps, determine the contributing causes and to make recommendations to system design that reduce the mishap's probability of occurrence and/or the consequence if it did occur. The Contractor shall ensure that all system deployment life-cycle support elements have been addressed and are in place to support system deployment.

1.6.1 The Contractor shall use a dual track Systems Engineering approach that conducts cost/performance analysis and validation experiments/demonstrations. The Contractor shall work down from platform level requirements and allocate to system, subsystem and component levels (requirements pull), and work up from the component technology level to determine any new requirement allocations or performance/capability that are enabled (technology push). The Contractor shall assess equipment and system Life Cycle Costs (LCC) and conduct trade-off studies of LCC versus acquisition costs. The contractor shall perform analysis and evaluation of

electrical/mechanical system and sub-system designs recommended for Navy ship applications with emphasis on stability, steady state and transient performance, continuity, quality, and survivability. The Contractor shall review existing marine specifications and assess their impact on IPS design.

1.6.2 The Contractor shall develop analytical and finite element models of alternative hull, mechanical, and electrical concepts capable of simulating both the operational and structural characteristics of the concepts including electric power generation and distribution, thermal, acoustic, and electro-magnetic prediction and control. The Contractor shall exercise methods and models to perform trade-off assessments of machinery system and component characteristics identifying potential cost/performance benefits. The Contractor shall maintain existing notional Smart Product Models (SPMs), update them as required to conduct systems analysis of emerging concepts, and develop new module level SPMs. The Contractor shall devise methods to predict reliability, maintainability, and availability (RM&A) performance for new machinery systems, exercise the methods, evaluate cost impact, collect field data, and validate predicted performance and assess RM&A requirements. The Contractor shall exercise the Advanced Surface Ship Evaluation Tool (ASSET) models and develop related cost/performance data for IPS configurations.

1.6.3 The Contractor shall prepare and maintain Technical Performance Measures (TPMs) that track the status of key programmatic and technical performance metrics to track critical issues.

1.7 **Government Furnished Information.** In the performance of this effort, Government Furnished Information (GFI) may be necessary, some of which may occur on an informal basis. The information provided is subject to the requirements provided under the contract clause INFORMATION AND DATA FURNISHED BY THE GOVERNMENT. Plans, drawings, specifications, designs, photographs, and any other engineering and manufacturing information furnished by the Government shall remain Government property and shall be reproduced only as authorized in writing by the Government, shall be used for performance of the work specified herein, and shall be returned to the Government upon request. The Contractor shall thereafter make no further use of any information derived there from without prior written consent of the Navy.

1.7.1 **Proper Handling of Controlled, Unclassified Information.** Data provided shall not be used in any other context or in any other venue without the permission of PMS 320. Documents annotated with any distribution statements other than Distribution A – Public Release shall be communicated electronically only by secure means. No document shall have a proprietary marking since marking of technical data or software as "Proprietary" is not a proper or conforming marking in accordance with paragraph (f) of DFARS 252.227-7013 and 252.227-7014. Any appropriately disclosed data rights assertions shall be indicated on technical data. All documents shall have the following markings or legends:

DISTRIBUTION STATEMENT D: Distribution authorized to DoD and U.S. DoD contractors only; Critical Technology (fill in origination date). Other U.S. requests shall be referred to PMS 320.

WARNING: This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, USC, Sec. 2751, et seq.) or the Export Administration Act of 1979, as amended, Title 50, USC, App. 2401 et seq. Violation of these laws are subject to severe criminal penalties.

DESTRUCTION NOTICE: For Unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.

The fact that certain program information is unclassified does not automatically allow its public release, dissemination or disclosure. No publicity releases or public displays of any kind are authorized on this program without prior expressed written consent of COMNAVSEASYS COM (SEA 00D) or higher DoD authority.

#### **ITEM 0002 – DATA REQUIREMENTS (NAVSEA)(SEP 1990)**

The data to be furnished hereunder shall be prepared in accordance with the Contract Data Requirements List, DD Form 1423, Exhibit(s) A, attached hereto.



Data shall be submitted to NAVSEA PMS-320 in an electronic mailing using Microsoft Word, Microsoft Excel, Microsoft PowerPoint, or PDF file formats unless otherwise agreed to. No paper copy shall be delivered unless otherwise agreed to by the Navy. The Contractor's format is acceptable, provided the technical content requirement is met. The content requirements are specified for each data item in the SOW.

For those items requiring approval, approval will be based on technical content and compliance with the SOW requirements. The Navy will make every effort to expedite review and response to the Contractor. Disapproved documents shall be modified by the contractor in accordance with the comments provided by the Navy and resubmitted for Navy reconsideration. Documents that are approved with comment may be considered acceptable if the Contractor acknowledges acceptance of the Navy's comment.

### **ITEM 0003 – ENGINEERING SERVICES FOR ELECTRIC POWER SYSTEMS STUDIES**

3.1 The Contractor shall furnish up to **30,000** man-hours of the services of qualified engineers to perform Engineering Support for follow-on investigations and hardware evaluations to determine the effectiveness of the new technologies developed herein. A requirement of a mix of lead, senior, and intermediate level personnel in the ratio of 1:2:1 is anticipated, although the Contractor's requirement is to deliver the total amount of support in such mix as required. The nature of the services to be performed shall be non-severable from the scope of the remaining aspects of the contract. As such, the manner of work to be performed under this item shall be intimately related to the core scope of the contract, shall form a logical extension of the work otherwise performed (such as completion of testing of articles developed or extending the performance capability of the articles developed), or shall provide amplifying details of the articles or technologies beyond that otherwise required herein and shall result in a specific end-product, e.g. a report. The services shall cover the investigation of potential alternative technologies on suitable demonstration vehicles, working in support of NAVSEA objectives. The Contractor shall furnish materials and subcontracting incidental to the engineering services and as necessary to perform the efforts specified by PMS-320. The amount of materials and subcontracting to be provided shall be equal to or less than **\$300,000** of direct costs. Incidental materials and subcontracting shall be fee bearing and shall not be counted against the fee reduction formula cited in clause **NAVSEA 5252.216-9122 LEVEL OF EFFORT (DEC 2000)**.

3.1.1 The Contractor shall support ship detailed design. The Contractor shall work down from platform level requirements and allocate to system, subsystem and component levels (requirements pull) to determine any new requirement allocations or performance/capability that are enabled. The Contractor shall assess equipment and system LCC and conduct trade-off studies of LCC versus acquisition costs. The Contractor shall perform analysis and evaluation of electrical/mechanical system and sub-system designs recommended for Navy ship applications with emphasis on stability, steady state and transient performance, continuity, quality, and survivability. The Contractor shall perform analysis of device, equipment, subsystem and system interactions within a combined environment with emphasis on interface definitions and control. The Contractor shall review and provide comments to system interface specifications, functional requirements, and component specifications including applications to machinery acoustics and open architecture machinery and electrical systems. The Contractor shall analyze alternative machinery arrangements to determine the most cost effective solution and review the ship detailed design pertaining to the Integrated Power System to assist the Navy with determining whether technical alternatives under consideration as engineering change proposals will reduce ship acquisition cost or improve mission performance. The Contractor shall perform cost versus effort studies. The Contractor shall perform contract earned value management system (EVMS) analyses.

3.1.2 The Contractor shall support ship construction efforts. The Contractor shall assess equipment and system LCC and conduct trade-off studies of LCC versus construction costs. During the ship construction process, the Contractor shall review and provide comments to system interface specifications, functional requirements, and component specifications including applications to machinery acoustics and open architecture machinery and electrical systems. The Contractor shall assist the Navy with determining whether technical alternatives under consideration as engineering change proposals will reduce ship acquisition cost or improve mission performance. The Contractor shall perform cost versus effort studies. The Contractor shall perform contract EVMS analyses.

3.2 The engineering services shall be performed within the limits, if any, as to place(s) and period(s) specified therefore, as authorized by PMS-320.

3.3 The maximum liability of the Government for each engineering services item shall not exceed the amount set forth in the Schedule, or the amount obligated whichever is less. If, at any time, the Contractor has reason to believe that the amounts it expects to incur in the performance of each engineering services item in the next succeeding sixty (60) days, when added to all amounts previously incurred, will exceed seventy-five percent (75%) of the amount then set forth in the Schedule; or if, at any time, the Contractor has reason to believe that the man days and/or amount for the full performance of each engineering services item will be greater than or substantially less than that set forth in the Schedule, the Contractor shall notify the Contracting Officer in writing, giving its revised estimate of the man days and/or amount for the performance of said item. The Contractor shall not exceed the obligated amount for each engineering services item, unless and until the Contracting Officer has increased such amount in writing.

3.4 In the event the Government does not designate time(s) and place(s) sufficient for performance of the total quantity of engineering services set forth in the Schedule within the period(s) provided therefore, those services not furnished shall be deemed to be terminated for the convenience of the Government at no cost to the Government. Such termination shall be evidenced by a written document signed by the Contracting Officer and mailed or otherwise furnished to the Contractor.

3.5 Performance of the work under this effort shall be subject to written Technical Instructions (TIs) signed by the COR. If, in the opinion of the Contractor, any technical instruction calls for effort outside the scope of the contract or is inconsistent with this requirement, the Contractor shall notify the Government Contracting Officer 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 unless and until the Government Contracting Officer notifies the Contractor that the technical instruction is within the scope of this contract.

#### **ITEM 0004 - SUPPORT FOR ENGINEERING SERVICES (NAVSEA) (JUN 1992)**

(a) The Contractor shall be reimbursed for its reasonable actual subsistence and transportation costs incurred in the performance of the related engineering services item(s) in accordance with FAR 31.205-46. The costs to be reimbursed shall be those costs accepted by the cognizant DCAA.

(b) Overtime shall be performed as required by the using activity and to the extent authorized by the applicable NAVSEA/DRPM/PEO code identified in Section C under Engineering Services.

(c) The maximum liability of the Government for each support item shall not exceed the estimated amount set forth in the Schedule. If, at any time, the Contractor has reason to believe that the costs it expects to incur in the performance of each support item in the next succeeding sixty (60) days, when added to all costs previously incurred, will exceed seventy-five percent (75%) of the amount then set forth in the Schedule; or if, at any time, the Contractor has reason to believe that the costs to the Government for the full performance of each support item will be greater than or substantially less than the amount set forth in the Schedule, the Contractor shall notify the Contracting Officer in writing, giving its revised estimate of such costs for the performance of said item. The Contracting Officer may, upon receipt of such notice or whenever the Contracting Officer considers it necessary, increase or further increase the total estimated amount for the performance of each support item. When and to the extent the estimated amount for a support item has been so increased, any amounts expended or incurred by the Contractor for performance in excess of the estimated amount therefor prior to the increase, shall be paid or reimbursed to the same extent as if expended or incurred after the increase.

COMPUTER SOFTWARE AND/OR COMPUTER DATABASE(S) DELIVERED TO AND/OR RECEIVED FROM THE GOVERNMENT (NAVSEA) (APR 2004)

(a) The Contractor agrees to test for viruses all computer software and/or computer databases, as defined in the clause entitled "RIGHTS IN NONCOMMERCIAL COMPUTER SOFTWARE AND NONCOMMERCIAL COMPUTER SOFTWARE DOCUMENTATION" (DFARS 252.227-7014), before delivery of that computer software or computer database in whatever media and on whatever system the software is delivered. The Contractor warrants that any such computer software and/or computer database will be free of viruses when delivered.

(b) The Contractor agrees to test any computer software and/or computer database(s) received from the Government for viruses prior to use under this contract.

(c) Unless otherwise agreed in writing, any license agreement governing the use of any computer software to be delivered as a result of this contract must be paid-up and perpetual, or so nearly perpetual as to allow the use of the computer software or computer data base with the equipment for which it is obtained, or any replacement equipment, for so long as such equipment is used. Otherwise the computer software or computer database does not meet the minimum functional requirements of this contract. In the event that there is any routine to disable the computer software or computer database after the software is developed for or delivered to the Government, that routine shall not disable the computer software or computer database until at least twenty-five calendar years after the delivery date of the affected computer software or computer database to the Government.

(d) No copy protection devices or systems shall be used in any computer software or computer database delivered under this contract to restrict or limit the Government from making copies. This does not prohibit license agreements from specifying the maximum amount of copies that can be made.

(e) Delivery by the Contractor to the Government of certain technical data and other data is now frequently required in digital form rather than as hard copy. Such delivery may cause confusion between data rights and computer software rights. It is agreed that, to the extent that any such data is computer software by virtue of its delivery in digital form, the Government will be licensed to use that digital-form with exactly the same rights and limitations as if the data had been delivered as hard copy.

(f) Any limited rights legends or other allowed legends placed by a Contractor on technical data or other data delivered in digital form shall be digitally included on the same media as the digital-form data and must be associated with the corresponding digital-form technical data to which the legends apply to the extent possible. Such legends shall also be placed in human readable form on a visible surface of the media carrying the digital-form data as delivered, to the extent possible.

CONTRACTOR'S PROPOSAL (NAVSEA) (MAR 2001)

(a) Performance of this contract by the Contractor shall be conducted and

dated in response to NAVSEA Solicitation No. N00024-05-R-4210 .



INFORMATION AND DATA FURNISHED BY THE GOVERNMENT - ALTERNATE II (NAVSEA) (SEP 2009)

(a) NAVSEA Form 4340/2 or Schedule C, as applicable, Government Furnished Information, attached hereto, incorporates by listing or specific reference, all the data or information which the Government has provided or will provide to the Contractor except for

(1) The specifications set forth in Section C, and

(2) Government specifications, including drawings and other Government technical documentation which are referenced directly or indirectly in the specifications set forth in Section C and which are applicable to this contract as specifications, and which are generally available and provided to Contractors or prospective Contractors upon proper request, such as Federal or Military Specifications, and Standard Drawings, etc.

(b) Except for the specifications referred to in subparagraphs (a)(1) and (2) above, the Government will not be obligated to provide to the Contractor any specification, drawing, technical documentation or other publication which is not listed or specifically referenced in NAVSEA Form 4340/2 or Schedule C, as applicable, notwithstanding anything to the contrary in the specifications, the publications listed or specifically referenced in NAVSEA Form 4340/2 or Schedule C, as applicable, the clause entitled "GOVERNMENT PROPERTY" (FAR 52.245-1) or "GOVERNMENT PROPERTY INSTALLATION OPERATION SERVICES " (FAR 52.245-2), as applicable, or any other term or condition of this contract.

(c)(1) The Contracting Officer may at any time by written order:

(i) delete, supersede, or revise, in whole or in part, data listed or specifically referenced in NAVSEA Form 4340/2 or Schedule C, as applicable; or

(ii) add items of data or information to NAVSEA Form 4340/2 or Schedule C, as applicable; or

(iii) establish or revise due dates for items of data or information in NAVSEA Form 4340/2 or Schedule C, as applicable.

(2) If any action taken by the Contracting Officer pursuant to subparagraph (c)(1) immediately above causes an increase or decrease in the costs of, or the time required for, performance of any part of the work under this contract, the contractor may be entitled to an equitable adjustment in the contract amount and delivery schedule in accordance with the procedures provided for in the "CHANGES" clause of this contract.

USE OF NAVY SUPPORT CONTRACTORS FOR OFFICIAL CONTRACT FILES (NAVSEA) (APR 2004)

(a) NAVSEA may use a file room management support contractor, hereinafter referred to as "the support contractor", to manage its file room, in which all official contract files, including the official file supporting this procurement, are retained. These official files may contain information that is considered a trade secret, proprietary, business sensitive or otherwise protected pursuant to law or regulation, hereinafter referred to as "protected information". File room management services consist of any of the following: secretarial or clerical support; data

entry; document reproduction, scanning, imaging, or destruction; operation, management, or maintenance of paper-based or electronic mail rooms, file rooms, or libraries; and supervision in connection with functions listed herein.

(b) The cognizant Contracting Officer will ensure that any NAVSEA contract under which these file room management services are acquired will contain a requirement that:

(1) The support contractor not disclose any information;

(2) Individual employees are to be instructed by the support contractor regarding the sensitivity of the official contract files;

(3) The support contractor performing these services be barred from providing any other supplies and/or services, or competing to do so, to NAVSEA for the period of performance of its contract and for an additional three years thereafter unless otherwise provided by law or regulation; and,

(4) In addition to any other rights the contractor may have, it is a third party beneficiary who has the right of direct action against the support contractor, or any person to whom the support contractor has released or disclosed protected information, for the unauthorized duplication, release, or disclosure of such protected information.

(c) Execution of this contract by the contractor is considered consent to NAVSEA's permitting access to any information, irrespective of restrictive markings or the nature of the information submitted, by its file room management support contractor for the limited purpose of executing its file room support contract responsibilities.

(d) NAVSEA may, without further notice, enter into contracts with other contractors for these services. Contractors are free to enter into separate non-disclosure agreements with the file room contractor. (Please contact Director, E Business Division for contractor specifics.) However, any such agreement will not be considered a prerequisite before information submitted is stored in the file room or otherwise encumber the government.

## Section D - Packaging and Marking

## DATA PACKAGING LANGUAGE (NAVSEA)

All unclassified data shall be prepared for shipment in accordance with best commercial practice.

Classified reports, data, and documentation shall be prepared for shipment in accordance with National Industrial Security Program Operating Manual (NISPOM), DOD 5220.22-M dated January 1995 with change 1 dated 31 July 1997 and change 2 dated 1 May 2000 and, when applicable, NISPOM Supplement 1 dated February 1995.

## MARKING OF REPORTS (NAVSEA) (SEP 1990)

All reports delivered by the Contractor to the Government under this contract shall prominently show on the cover of the report:

- (1) name and business address of the Contractor
- (2) contract number
- (3) contract dollar amount
- (4) whether the contract was competitively or non-competitively awarded
- (5) sponsor:

Joseph Tannenbaum

(Name of Individual Sponsor)

NAVSEA PMS-320

(Name of Requiring Activity)

Washington Navy Yard, D.C. 20376

(City and State)

## Section E - Inspection and Acceptance

Item(s) 0001 - Inspection and acceptance shall be made by the Contracting Officer's Representative (COR) or a designated representative of the Government.

Item 0002- Inspection and acceptance of all data shall be as specified on the attached Contract Data Requirements List(s), DD Form 1423.

Item(s) 0003 - Acceptance shall be made by the cognizant ACO upon receipt of a copy of the authorization for services and the original certification of performance.

### CLAUSES INCORPORATED BY REFERENCE

52.246-3	Inspection Of Supplies Cost-Reimbursement	MAY 2001
52.246-5	Inspection Of Services Cost-Reimbursement	APR 1984
52.246-8	Inspection Of Research And Development Cost Reimbursement	MAY 2001
52.246-16	Responsibility For Supplies	APR 1984

## Section F - Deliveries or Performance

The Contractor shall perform the work described in SECTION C, at the level of effort specified in SECTION B, as follows:

<u>ITEM(S)</u>	<u>FROM</u>	<u>TO</u>
0001	Date of award	24 Months after contract award
0003	Date of award	60 Months after contract award
0004	Date of award	60 Months after contract award

All data to be furnished under this contract shall be delivered prepaid to the destination(s) and at the time(s) specified on the Contract Data Requirements List(s), DD Form 1423.

## CLAUSES INCORPORATED BY REFERENCE

52.242-15	Stop-Work Order	AUG 1989
52.247-34	F.O.B. Destination	NOV 1991



Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 170131984RX255SAS500683422D980240S31610000010  
AMOUNT: \$700,000.00  
CIN 00000000000000000000000000000000: \$700,000.00

Enter below the address (street and number, city, county, state and zip code) of the Contractor's facility which will administer the contract if such address is different from the address shown on the SF 26 or SF 33, as applicable.

---

---

**PURCHASING OFFICE  
REPRESENTATIVE:**

COMMANDER  
ATTN: TARA BORNTREGER  
NAVAL SEA SYSTEMS COMMAND  
1333 ISAAC HULL AVENUE SE STOP  
WASHINGTON NAVY YARD DC 20376  
Telephone No. 202-263-9210  
Fax No. 202/781-4637  
Email Address: tara.borntreger@navy.mil

**CONTRACTING OFFICER'S  
REPRESENTATIVE:**

COMMANDER  
ATTN: Joseph Tannenbaum  
NAVAL SEA SYSTEMS COMMAND PMS 500I  
1333 ISAAC HULL AVENUE SE STOP 2203  
WASHINGTON NAVY YARD DC 20376 -2203  
Telephone No. 202/781-2629  
Fax No. 202/781-4778

The Contractor shall forward a copy of all invoices to the Contracting Officer's Representative.

## Section H - Special Contract Requirements

## 5252.202-9101 ADDITIONAL DEFINITIONS (MAY 1993)

As used throughout this contract, the following terms shall have the meanings set forth below:

- (a) DEPARTMENT means the Department of the Navy.
- (b) REFERENCES TO THE FEDERAL ACQUISITION REGULATION (FAR) All references to the FAR in this contract shall be deemed to also reference the appropriate sections of the Defense FAR Supplement (DFARS), unless clearly indicated otherwise.
- (c) REFERENCES TO ARMED SERVICES PROCUREMENT REGULATION OR DEFENSE ACQUISITION REGULATION All references in this document to either the Armed Services Procurement Regulation (ASPR) or the Defense Acquisition Regulation (DAR) shall be deemed to be references to the appropriate sections of the FAR/DFARS.
- (d) NATIONAL STOCK NUMBERS Whenever the term Federal Item Identification Number and its acronym FIIN or the term Federal Stock Number and its acronym FSN appear in the contract, order or their cited specifications and standards, the terms and acronyms shall be interpreted as National Item Identification Number (NIIN) and National Stock Number (NSN) respectively which shall be defined as follows:
- (1) National Item Identification Number (NIIN). The number assigned to each approved Item Identification under the Federal Cataloging Program. It consists of nine numeric characters, the first two of which are the National Codification Bureau (NCB) Code. The remaining positions consist of a seven digit non significant number.
  - (2) National Stock Number (NSN). The National Stock Number (NSN) for an item of supply consists of the applicable four position Federal Supply Class (FSC) plus the applicable nine position NIIN assigned to the item of supply.

## 5252.216-9122 LEVEL OF EFFORT (DEC 2000)

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in Sections B and C of this contract. The total level of effort for the performance of this contract shall be 30,000 total man-hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort.

(b) Of the total man-hours of direct labor set forth above, it is estimated that 0 (Offeror to fill-in) man-hours are uncompensated effort.

Uncompensated effort is defined as hours provided by personnel in excess of 40 hours per week without additional compensation for such excess work. All other effort is defined as compensated effort. If no effort is indicated in the first sentence of this paragraph, uncompensated effort performed by the Contractor shall not be counted in fulfillment of the level of effort obligations under this contract.

(c) Effort performed in fulfilling the total level of effort obligations specified above shall only include effort performed in direct support of this contract and shall not include time and effort expended on such things as (local travel to and from an employee's usual work location), uncompensated effort while on travel status, truncated lunch periods, work (actual or inferred) at an employee's residence or other non-work locations (except as provided in

paragraph (j) below), or other time and effort which does not have a specific and direct contribution to the tasks described in Sections B and C.

(d) The level of effort for this contract shall be expended at an average rate of approximately \_\_\_\_ hours per week. It is understood and agreed that the rate of man-hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total man-hours of effort prior to the expiration of the term hereof, except as provided in the following paragraph.

(e) If, during the term hereof, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total man-hours of effort specified above would be used prior to the expiration of the term, the Contractor shall notify the Contracting Officer in writing setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fee together with an offer, setting forth a proposed level of effort, cost breakdown, and proposed fee, for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.

(f) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor such that the total man-hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. This order shall specify the acceleration required and the resulting revised term. The Contractor shall acknowledge this order within five days of receipt.

(g) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the period of this contract, the Contracting Officer, at its sole discretion, shall either (i) reduce the fee of this contract as follows:

$$\text{Fee Reduction} = \text{Fee} \frac{(\text{Required LOE} - \text{Expended LOE})}{\text{Required LOE}}$$

or (ii) subject to the provisions of the clause of this contract entitled "LIMITATION OF COST" (FAR 52.232-20) or "LIMITATION OF COST (FACILITIES)" (FAR 52.232-21), as applicable, require the Contractor to continue to perform the work until the total number of man-hours of direct labor specified in paragraph (a) above shall have been expended, at no increase in the fee of this contract.

(h) The Contractor shall provide and maintain an accounting system, acceptable to the Administrative Contracting Officer and the Defense Contract Audit Agency (DCAA), which collects costs incurred and effort (compensated and uncompensated, if any) provided in fulfillment of the level of effort obligations of this contract. The Contractor shall indicate on each invoice the total level of effort claimed during the period covered by the invoice, separately identifying compensated effort and uncompensated effort, if any.

(i) Within 45 days after completion of the work under each separately identified period of performance hereunder, the Contractor shall submit the following information in writing to the Contracting Officer with copies to the cognizant Contract Administration Office and to the DCAA office to which vouchers are submitted: (1) the total number of man-hours of direct labor expended during the applicable period; (2) a breakdown of this total showing the number of man-hours expended in each direct labor classification and associated direct and indirect costs; (3) a breakdown of other costs incurred; and (4) the Contractor's estimate of the total allowable cost incurred under the contract for the period. Within 45 days after completion of the work under the contract, the Contractor shall submit, in addition, in the case of a cost underrun; (5) the amount by which the estimated cost of this contract may be reduced to recover excess funds and, in the case of an underrun in hours specified as the total level of effort; and (6) a calculation of the appropriate fee reduction in accordance with this clause. All submissions shall include subcontractor information.

(j) Unless the Contracting Officer determines that alternative worksite arrangements are detrimental to contract performance, the Contractor may perform up to 10% of the hours at an alternative worksite, provided the Contractor has a company-approved alternative worksite plan. The primary worksite is the traditional "main office" worksite. An alternative worksite means an employee's residence or a telecommuting center. A telecommuting center is a geographically convenient office setting as an alternative to an employee's main office. The Government reserves the right to review the Contractor's alternative worksite plan. In the event performance becomes unacceptable, the Contractor will be prohibited from counting the hours performed at the alternative worksite in fulfilling the total level of effort obligations of the contract. Regardless of work location, all contract terms and conditions, including security requirements and labor laws, remain in effect. The Government shall not incur any additional cost nor provide additional equipment for contract performance as a result of the Contractor's election to implement an alternative worksite plan.

(k) Notwithstanding any of the provisions in the above paragraphs, the Contractor may furnish man-hours up to five percent in excess of the total man-hours specified in paragraph (a) above, provided that the additional effort is furnished within the term hereof, and provided further that no increase in the estimated cost or fee is required.

#### 5252.227-9113 GOVERNMENT-INDUSTRY DATA EXCHANGE PROGRAM (OCT 2006)

(a) The Contractor shall participate in the appropriate interchange of the Government-Industry Data Exchange Program (GIDEP) in accordance with NAVSEA S0300-BU-GYD-010 dated November 1994. Data entered is retained by the program and provided to qualified participants. Compliance with this requirement shall not relieve the Contractor from complying with any other requirement of the contract.

(b) The Contractor agrees to insert paragraph (a) of this requirement in any subcontract hereunder exceeding \$500,000.00. When so inserted, the word "Contractor" shall be changed to "Subcontractor".

(c) GIDEP materials, software and information are available without charge from:

GIDEP  
P.O. Box 8000  
Corona, CA 92878-8000

Phone: (951) 898-3207  
FAX: (951) 898-3250  
Internet: <http://www.gidep.org>

#### 5252.232-9104 ALLOTMENT OF FUNDS (JAN 2008)

(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:

<u>ITEM(S)</u>	<u>ALLOTTED TO COST</u>	<u>ALLOTTED TO FEE</u>	<u>ESTIMATED PERIOD OF PERFORMANCE</u>
000101	\$ 648,148	\$ 51,852	30 September 2010

(b) The parties contemplate that the Government will allot additional amounts to this contract from time to time for the incrementally funded CLINs/SLINs by unilateral contract modification, and any such modification shall state separately the amount(s) allotted for cost, the amount(s) allotted for fee, the CLINs/SLINs covered thereby, and the period of performance which the amount(s) are expected to cover.

(c) CLINs/SLINs \_\_\_\_\_ are fully funded and performance under these CLINs/SLINs is subject to the clause of this contract entitled "LIMITATION OF COST" (FAR 52.232-20).

(d) The Contractor shall segregate costs for the performance of incrementally funded CLINs/SLINs from the costs of performance of fully funded CLINs/SLINs.

#### 5252.242-9115 TECHNICAL INSTRUCTIONS (APR 1999)

(a) Performance of the work hereunder may be subject to written technical instructions signed by the Contracting Officer's Representative specified in Section G of this contract. As used herein, technical instructions 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 calls for effort outside the scope of the contract or is inconsistent with this requirement, the Contractor shall notify the Contracting Officer 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 unless and until the Contractor is notified by the Contracting Officer that the technical instruction 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.

## Section I - Contract Clauses

## CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	JUL 2004
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-6	Restrictions On Subcontractor Sales To The Government	SEP 2006
52.203-7	Anti-Kickback Procedures	JUL 1995
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	JAN 1997
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	JAN 1997
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	SEP 2007
52.204-2	Security Requirements	AUG 1996
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000
52.204-7	Central Contractor Registration	APR 2008
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	SEP 2006
52.211-5	Material Requirements	AUG 2000
52.211-15	Defense Priority And Allocation Requirements	APR 2008
52.215-2	Audit and Records--Negotiation	MAR 2009
52.215-8	Order of Precedence--Uniform Contract Format	OCT 1997
52.215-10	Price Reduction for Defective Cost or Pricing Data	OCT 1997
52.215-11	Price Reduction for Defective Cost or Pricing Data-- Modifications	OCT 1997
52.215-12	Subcontractor Cost or Pricing Data	OCT 1997
52.215-13	Subcontractor Cost or Pricing Data--Modifications	OCT 1997
52.215-14	Integrity of Unit Prices	OCT 1997
52.215-15	Pension Adjustments and Asset Reversions	OCT 2004
52.215-18	Reversion or Adjustment of Plans for Postretirement Benefits (PRB) Other than Pensions	JUL 2005
52.216-7	Allowable Cost And Payment	DEC 2002
52.216-8	Fixed Fee	MAR 1997
52.219-8	Utilization of Small Business Concerns	MAY 2004
52.219-9 Alt II	Small Business Subcontracting Plan (Apr 2008) Alternate II	OCT 2001
52.219-16	Liquidated Damages-Subcontracting Plan	JAN 1999
52.222-1	Notice To The Government Of Labor Disputes	FEB 1997
52.222-3	Convict Labor	JUN 2003
52.222-4	Contract Work Hours and Safety Standards Act - Overtime Compensation	JUL 2005
52.222-19	Child Labor -- Cooperation with Authorities and Remedies	AUG 2009
52.222-20	Walsh-Healey Public Contracts Act	DEC 1996
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	MAR 2007
52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans	SEP 2006
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, and Other Eligible Veterans	SEP 2006
52.223-5	Pollution Prevention and Right-to-Know Information	AUG 2003
52.223-6	Drug-Free Workplace	MAY 2001

52.223-11	Ozone-Depleting Substances	MAY 2001
52.223-12	Refrigeration Equipment and Air Conditioners	MAY 1995
52.223-14	Toxic Chemical Release Reporting	AUG 2003
52.225-8	Duty-Free Entry	FEB 2000
52.225-13	Restrictions on Certain Foreign Purchases	JUN 2008
52.227-1 Alt I	Authorization And Consent (Dec 2007) - Alternate I	APR 1984
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	DEC 2007
52.227-10	Filing Of Patent Applications--Classified Subject Matter	DEC 2007
52.228-7	Insurance--Liability To Third Persons	MAR 1996
52.230-2	Cost Accounting Standards	OCT 2008
52.230-3	Disclosure And Consistency Of Cost Accounting Practices	OCT 2008
52.230-6	Administration of Cost Accounting Standards	MAR 2008
52.232-9	Limitation On Withholding Of Payments	APR 1984
52.232-17	Interest	OCT 2008
52.232-20	Limitation Of Cost	APR 1984
52.232-22	Limitation Of Funds	APR 1984
52.232-23 Alt I	Assignment of Claims (Jan 1986) - Alternate I	APR 1984
52.232-25 Alt I	Prompt Payment (Oct 2008) Alternate I	FEB 2002
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	OCT 2003
52.233-1 Alt I	Disputes (Jul 2002) - Alternate I	DEC 1991
52.233-3 Alt I	Protest After Award (Aug 1996) - Alternate I	JUN 1985
52.233-4	Applicable Law for Breach of Contract Claim	OCT 2004
52.237-3	Continuity Of Services	JAN 1991
52.242-1	Notice of Intent to Disallow Costs	APR 1984
52.242-3	Penalties for Unallowable Costs	MAY 2001
52.242-4	Certification of Final Indirect Costs	JAN 1997
52.242-13	Bankruptcy	JUL 1995
52.243-2 Alt V	Changes--Cost-Reimbursement (Aug 1987) - Alternate V	APR 1984
52.243-6	Change Order Accounting	APR 1984
52.244-5	Competition In Subcontracting	DEC 1996
52.245-9	Use And Charges	JUN 2007
52.246-23	Limitation Of Liability	FEB 1997
52.246-25	Limitation Of Liability--Services	FEB 1997
52.247-1	Commercial Bill Of Lading Notations	FEB 2006
52.247-68	Report of Shipment (REPSHIP)	FEB 2006
52.248-1	Value Engineering	FEB 2000
52.249-6	Termination (Cost Reimbursement)	MAY 2004
52.249-14	Excusable Delays	APR 1984
52.253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense- Contract-Related Felonies	DEC 2008
252.203-7002	Requirement to Inform Employees of Whistleblower Rights	JAN 2009
252.204-7000	Disclosure Of Information	DEC 1991
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004 Alt A	Central Contractor Registration (52.204-7) Alternate A	SEP 2007
252.204-7005	Oral Attestation of Security Responsibilities	NOV 2001
252.205-7000	Provision Of Information To Cooperative Agreement Holders	DEC 1991
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Terrorist Country	DEC 2006
252.211-7000	Acquisition Streamlining	DEC 1991
252.215-7000	Pricing Adjustments	DEC 1991

252.215-7002	Cost Estimating System Requirements	DEC 2006
252.215-7003	Excessive Pass-Through Charges--Identification of Subcontract Effort	MAY 2008
252.215-7004	Excessive Pass-Through Charges	MAY 2008
252.219-7003	Small Business Subcontracting Plan (DOD Contracts)	APR 2007
252.222-7999	Additional Requirements And Responsibilities Restricting The Use Of Mandatory Arbitration Agreements (Deviation)	FEB 2010
252.223-7004	Drug Free Work Force	SEP 1988
252.223-7006	Prohibition On Storage And Disposal Of Toxic And Hazardous Materials	APR 1993
252.225-7001	Buy American Act And Balance Of Payments Program	JAN 2009
252.225-7002	Qualifying Country Sources As Subcontractors	APR 2003
252.225-7004	Report of Intended Performance Outside the United States and Canada--Submission after Award	MAY 2007
252.225-7006	Quarterly Reporting of Actual Contract Performance Outside the United States	MAY 2007
252.225-7012	Preference For Certain Domestic Commodities	DEC 2008
252.225-7013	Duty-Free Entry	DEC 2009
252.225-7015	Restriction on Acquisition of Hand Or Measuring Tools	JUN 2005
252.225-7016	Restriction On Acquisition Of Ball and Roller Bearings	MAR 2006
252.225-7025	Restriction on Acquisition of Forgings	DEC 2009
252.225-7030	Restriction On Acquisition Of Carbon, Alloy, And Armor Steel Plate	DEC 2006
252.225-7031	Secondary Arab Boycott Of Israel	JUN 2005
252.226-7001	Utilization of Indian Organizations and Indian-Owned Economic Enterprises, and Native Hawaiian Small Business Concerns	SEP 2004
252.227-7013	Rights in Technical Data--Noncommercial Items	NOV 1995
252.227-7014	Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation	JUN 1995
252.227-7016	Rights in Bid or Proposal Information	JUN 1995
252.227-7019	Validation of Asserted Restrictions--Computer Software	JUN 1995
252.227-7027	Deferred Ordering Of Technical Data Or Computer Software	APR 1988
252.227-7030	Technical Data--Withholding Of Payment	MAR 2000
252.227-7037	Validation of Restrictive Markings on Technical Data	SEP 1999
252.231-7000	Supplemental Cost Principles	DEC 1991
252.232-7003	Electronic Submission of Payment Requests and Receiving Reports	MAR 2008
252.232-7010	Levies on Contract Payments	DEC 2006
252.235-7010	Acknowledgment of Support and Disclaimer	MAY 1995
252.235-7011	Final Scientific or Technical Report	NOV 2004
252.242-7003	Application For U.S. Government Shipping Documentation/Instructions	DEC 1991
252.242-7004	Material Management And Accounting System	JUL 2009
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.243-7002	Requests for Equitable Adjustment	MAR 1998
252.244-7000	Subcontracts for Commercial Items and Commercial Components (DoD Contracts)	AUG 2009
252.246-7000	Material Inspection And Receiving Report	MAR 2008
252.246-7001	Warranty Of Data	DEC 1991
252.249-7002	Notification of Anticipated Contract Termination or Reduction	DEC 2006



## CLAUSES INCORPORATED BY FULL TEXT

## 52.215-21 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA--MODIFICATIONS (OCT 1997)--ALTERNATE I (OCT 1997)

(a) Exceptions from cost or pricing data. (1) In lieu of submitting cost or pricing data for modifications under this contract, for price adjustments expected to exceed the threshold set forth at FAR 15.403-4 on the date of the agreement on price or the date of the award, whichever is later, the Contractor may submit a written request for exception by submitting the information described in the following subparagraphs. The Contracting Officer may require additional supporting information, but only to the extent necessary to determine whether an exception should be granted, and whether the price is fair and reasonable--

(i) Identification of the law or regulation establishing the price offered. If the price is controlled under law by periodic rulings, reviews, or similar actions of a governmental body, attach a copy of the controlling document, unless it was previously submitted to the contracting office.

(ii) Information on modifications of contracts or subcontracts for commercial items. (A) If--

(1) The original contract or subcontract was granted an exception from cost or pricing data requirements because the price agreed upon was based on adequate price competition or prices set by law or regulation, or was a contract or subcontract for the acquisition of a commercial item; and

(2) The modification (to the contract or subcontract) is not exempted based on one of these exceptions, then the Contractor may provide information to establish that the modification would not change the contract or subcontract from a contract or subcontract for the acquisition of a commercial item to a contract or subcontract for the acquisition of an item other than a commercial item.

(B) For a commercial item exception, the Contractor shall provide, at a minimum, information on prices at which the same item or similar items have previously been sold that is adequate for evaluating the reasonableness of the price of the modification. Such information may include--

(1) For catalog items, a copy of or identification of the catalog and its date, or the appropriate pages for the offered items, or a statement that the catalog is on file in the buying office to which the proposal is being submitted. Provide a copy or describe current discount policies and price lists (published or unpublished), e.g., wholesale, original equipment manufacturer, or reseller. Also explain the basis of each offered price and its relationship to the established catalog price, including how the proposed price relates to the price of recent sales in quantities similar to the proposed quantities.

(2) For market-priced items, the source and date or period of the market quotation or other basis for market price, the base amount, and applicable discounts. In addition, describe the nature of the market.

(3) For items included on an active Federal Supply Service Multiple Award Schedule contract, proof that an exception has been granted for the schedule item.

(2) The Contractor grants the Contracting Officer or an authorized representative the right to examine, at any time before award, books, records, documents, or other directly pertinent records to verify any request for an exception under this clause, and the reasonableness of price. For items priced using catalog or market prices, or law or regulation, access does not extend to cost or profit information or other data relevant solely to the Contractor's determination of the prices to be offered in the catalog or marketplace.

(b) Requirements for cost or pricing data. If the Contractor is not granted an exception from the requirement to

submit cost or pricing data, the following applies:

(1) The Contractor shall submit cost or pricing data and supporting attachments prepared in the following format:

As soon as practicable after agreement on price, but before award (except for unpriced actions), the Contractor shall submit a Certificate of Current Cost or Pricing Data, as prescribed by FAR 15.406-2.

(End of clause)

#### 52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed \_\_\_\_\_ or the overtime premium is paid for work --

(1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature;

(2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;

(3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or

(4) That will result in lower overall costs to the Government.

(b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall--

(1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;

(2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;

(3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and

(4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

\* Insert either "zero" or the dollar amount agreed to during negotiations. The inserted figure does not apply to the exceptions in paragraph (a)(1) through (a)(4) of the clause.

(End of clause)

#### 52.223-9 ESTIMATE OF PERCENTAGE OF RECOVERED MATERIAL CONTENT FOR EPA-DESIGNATED ITEMS (MAY 2008)

(a) Definitions. As used in this clause--

Postconsumer material means a material or finished product that has served its intended use and has been discarded for disposal or recovery, having completed its life as a consumer item. Postconsumer material is a part of the broader category of "recovered material."

Recovered material means waste materials and by-products recovered or diverted from solid waste, but the term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

(b) The Contractor, on completion of this contract, shall--

(1) Estimate the percentage of the total recovered material content for EPA-designated item(s) delivered and/or used in contract performance, including, if applicable, the percentage of post-consumer material content; and

(2) Submit this estimate to Contracting Officer, Naval Facilities Engineering Service Center, Code 424 CA, 1100 23<sup>rd</sup> Avenue, Port Hueneme, CA 93043-4370 (Contracting Officer complete in accordance with agency procedures).

(End of clause)

52.234-1 INDUSTRIAL RESOURCES DEVELOPED UNDER DEFENSE PRODUCTION ACT TITLE III  
(DEC 1994)

(a) Definitions.

"Title III industrial resource" means materials, services, processes, or manufacturing equipment (including the processes, technologies, and ancillary services for the use of such equipment) established or maintained under the authority of Title III, Defense Production Act (50 U.S.C. App. 2091-2093)..

"Title III project contractor" means a contractor that has received assistance for the development or manufacture of an industrial resource under 50 U.S.C. App. 2091-2093, Defense Production Act.

(b) The Contractor shall refer any request from a Title III project contractor for testing and qualification of a Title III industrial resource to the Contracting Officer.

(c) Upon the direction of the Contracting Officer, the Contractor shall test Title III industrial resources for qualification. The Contractor shall provide the test results to the Defense Production Act Office, Title III Program, located at Wright Patterson Air Force Base, Ohio 45433-7739.

(d) When the Contracting Officer modifies the contract to direct testing pursuant to this clause, the Government will provide the Title III industrial resource to be tested and will make an equitable adjustment in the contract for the costs of testing and qualification of the Title III industrial resource.

(e) The Contractor agrees to insert the substance of this clause, including paragraph (e), in every subcontract issued in performance of this contract.

(End of clause)

## 52.243-7 NOTIFICATION OF CHANGES (APR 1984)

## (a) Definitions.

"Contracting Officer," as used in this clause, does not include any representative of the Contracting Officer.

"Specifically authorized representative (SAR)," as used in this clause, means any person the Contracting Officer has so designated by written notice (a copy of which shall be provided to the Contractor) which shall refer to this subparagraph and shall be issued to the designated representative before the SAR exercises such authority.

(b) Notice. The primary purpose of this clause is to obtain prompt reporting of Government conduct that the Contractor considers to constitute a change to this contract. Except for changes identified as such in writing and signed by the Contracting Officer, the Contractor shall notify the Administrative Contracting Officer in writing, within 30 calendar days from the date that the Contractor identifies any Government conduct (including actions, inactions, and written or oral communications) that the Contractor regards as a change to the contract terms and conditions. On the basis of the most accurate information available to the Contractor, the notice shall state--

- (1) The date, nature, and circumstances of the conduct regarded as a change;
- (2) The name, function, and activity of each Government individual and Contractor official or employee involved in or knowledgeable about such conduct;
- (3) The identification of any documents and the substance of any oral communication involved in such conduct;
- (4) In the instance of alleged acceleration of scheduled performance or delivery, the basis upon which it arose;
- (5) The particular elements of contract performance for which the Contractor may seek an equitable adjustment under this clause, including--
  - (i) What contract line items have been or may be affected by the alleged change;
  - (ii) What labor or materials or both have been or may be added, deleted, or wasted by the alleged change;
  - (iii) To the extent practicable, what delay and disruption in the manner and sequence of performance and effect on continued performance have been or may be caused by the alleged change;
  - (iv) What adjustments to contract price, delivery schedule, and other provisions affected by the alleged change are estimated; and
- (6) The Contractor's estimate of the time by which the Government must respond to the Contractor's notice to minimize cost, delay or disruption of performance.

(c) Continued performance. Following submission of the notice required by (b) above, the Contractor shall diligently continue performance of this contract to the maximum extent possible in accordance with its terms and conditions as construed by the Contractor, unless the notice reports a direction of the Contracting Officer or a communication from a SAR of the Contracting Officer, in either of which events the Contractor shall continue performance; provided, however, that if the Contractor regards the direction or communication as a change as described in (b) above, notice shall be given in the manner provided. All directions, communications, interpretations, orders and similar actions of the SAR shall be reduced to writing and copies furnished to the Contractor and to the Contracting Officer. The Contracting Officer shall countermand any action which exceeds the authority of the SAR.

(d) Government response. The Contracting Officer shall promptly, within 45 calendar days after receipt of notice, respond to the notice in writing. In responding, the Contracting Officer shall either--

- (1) Confirm that the conduct of which the Contractor gave notice constitutes a change and when necessary direct the mode of further performance;
- (2) Countermand any communication regarded as a change;
- (3) Deny that the conduct of which the Contractor gave notice constitutes a change and when necessary direct the mode of further performance; or
- (4) In the event the Contractor's notice information is inadequate to make a decision under (1), (2), or (3) above, advise the Contractor what additional information is required, and establish the date by which it should be furnished and the date thereafter by which the Government will respond.

(e) Equitable adjustments.

(1) If the Contracting Officer confirms that Government conduct effected a change as alleged by the Contractor, and the conduct causes an increase or decrease in the Contractor's cost of, or the time required for, performance of any part of the work under this contract, whether changed or not changed by such conduct, an equitable adjustment shall be made--

- (i) In the contract price or delivery schedule or both; and
- (ii) In such other provisions of the contract as may be affected.

(2) The contract shall be modified in writing accordingly. In the case of drawings, designs or specifications which are defective and for which the Government is responsible, the equitable adjustment shall include the cost and time extension for delay reasonably incurred by the Contractor in attempting to comply with the defective drawings, designs or specifications before the Contractor identified, or reasonably should have identified, such defect. When the cost of property made obsolete or excess as a result of a change confirmed by the Contracting Officer under this clause is included in the equitable adjustment, the Contracting Officer shall have the right to prescribe the manner of disposition of the property. The equitable adjustment shall not include increased costs or time extensions for delay resulting from the Contractor's failure to provide notice or to continue performance as provided, respectively, in (b) and (c) above.

Note: The phrases "contract price" and "cost" wherever they appear in the clause, may be appropriately modified to apply to cost-reimbursement or incentive contracts, or to combinations thereof.

(End of clause)

## 52.244-2 SUBCONTRACTS (JUN 2007)

(a) Definitions. As used in this clause--

Approved purchasing system means a Contractor's purchasing system that has been reviewed and approved in accordance with Part 44 of the Federal Acquisition Regulation (FAR).

Consent to subcontract means the Contracting Officer's written consent for the Contractor to enter into a particular subcontract.

Subcontract means any contract, as defined in FAR Subpart 2.1, entered into by a subcontractor to furnish supplies or services for performance of the prime contract or a subcontract. It includes, but is not limited to, purchase orders, and changes and modifications to purchase orders.

purchase orders.

(b) When this clause is included in a fixed-price type contract, consent to subcontract is required only on unpriced contract actions (including unpriced modifications or unpriced delivery orders), and only if required in accordance with paragraph (c) or (d) of this clause.

(c) If the Contractor does not have an approved purchasing system, consent to subcontract is required for any subcontract that—

(1) Is of the cost-reimbursement, time-and-materials, or labor-hour type; or

(2) Is fixed-price and exceeds—

(i) For a contract awarded by the Department of Defense, the Coast Guard, or the National Aeronautics and Space Administration, the greater of the simplified acquisition threshold or 5 percent of the total estimated cost of the contract; or

(ii) For a contract awarded by a civilian agency other than the Coast Guard and the National Aeronautics and Space Administration, either the simplified acquisition threshold or 5 percent of the total estimated cost of the contract.

(d) If the Contractor has an approved purchasing system, the Contractor nevertheless shall obtain the Contracting Officer's written consent before placing the following subcontracts:

(e)(1) The Contractor shall notify the Contracting Officer reasonably in advance of placing any subcontract or modification thereof for which consent is required under paragraph (b), (c), or (d) of this clause, including the following information:

(i) A description of the supplies or services to be subcontracted.

(ii) Identification of the type of subcontract to be used.

(iii) Identification of the proposed subcontractor.

(iv) The proposed subcontract price.

(v) The subcontractor's current, complete, and accurate cost or pricing data and Certificate of Current Cost or Pricing Data, if required by other contract provisions.

(vi) The subcontractor's Disclosure Statement or Certificate relating to Cost Accounting Standards when such data are required by other provisions of this contract.

(vii) A negotiation memorandum reflecting—

(A) The principal elements of the subcontract price negotiations;

(B) The most significant considerations controlling establishment of initial or revised prices;

(C) The reason cost or pricing data were or were not required;

(D) The extent, if any, to which the Contractor did not rely on the subcontractor's cost or pricing data in determining the price objective and in negotiating the final price;

(E) The extent to which it was recognized in the negotiation that the subcontractor's cost or pricing data were not accurate, complete, or current; the action taken by the Contractor and the subcontractor; and the effect of any such defective data on the total price negotiated;

(F) The reasons for any significant difference between the Contractor's price objective and the price negotiated; and

(G) A complete explanation of the incentive fee or profit plan when incentives are used. The explanation shall identify each critical performance element, management decisions used to quantify each incentive element, reasons for the incentives, and a summary of all trade-off possibilities considered.

(2) The Contractor is not required to notify the Contracting Officer in advance of entering into any subcontract for which consent is not required under paragraph (c), (d), or (e) of this clause.

(f) Unless the consent or approval specifically provides otherwise, neither consent by the Contracting Officer to any subcontract nor approval of the Contractor's purchasing system shall constitute a determination—

(1) Of the acceptability of any subcontract terms or conditions;

(2) Of the allowability of any cost under this contract; or

(3) To relieve the Contractor of any responsibility for performing this contract.

(g) No subcontract or modification thereof placed under this contract shall provide for payment on a cost-plus-a-percentage-of-cost basis, and any fee payable under cost-reimbursement type subcontracts shall not exceed the fee limitations in FAR 15.404-4(c)(4)(i).

(h) The Contractor shall give the Contracting Officer immediate written notice of any action or suit filed and prompt notice of any claim made against the Contractor by any subcontractor or vendor that, in the opinion of the Contractor, may result in litigation related in any way to this contract, with respect to which the Contractor may be entitled to reimbursement from the Government.

(i) The Government reserves the right to review the Contractor's purchasing system as set forth in FAR Subpart 44.3.

(j) Paragraphs (c) and (e) of this clause do not apply to the following subcontracts, which were evaluated during negotiations:

\_\_\_\_\_  
\_\_\_\_\_

(End of clause)

#### 52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS (DEC 2009)

(a) Definitions.

"Commercial item", has the meaning contained in Federal Acquisition Regulation 2.101, Definitions.

"Subcontract", includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

(b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of items to be supplied under this contract.

(c) (1) The Contractor shall insert the following clauses in subcontracts for commercial items:

(i) 52.203-13, Contractor Code of Business Ethics and Conduct (Dec 2008) (Pub. L. 110-252, Title VI, Chapter 1 (41 U.S.C. 251 note)), if the subcontract exceeds \$5,000,000 and has a performance period of ore than 120 days. In altering this clause to identify the appropriate parties, all disclosures of violation of the civil False Claims Act or of Federal criminal law shall be directed to the agency Office of the Inspector General, with a copy to the Contracting Officer.

(ii) .203-15, Whistleblower Protections Under the American Recovery and Reinvestment Act of 2009 (Section 1553 of Pub. L. 111-5), if the subcontract is funded under the Recovery Act.

(iii) 52.219-8, Utilization of Small Business Concerns (May 2004) (15 U.S.C. 637(d)(2) and (3)), if the subcontract offers further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$550,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(iv) 52.222-26, Equal Opportunity (MAR 2007) (E.O. 11246).

(v) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era and Other Eligible Veterans (SEP 2006) (38 U.S.C. 4212(a)).

(vi) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793).

(vii) Reserved..

(viii) 52.222-50, Combating Trafficking in Persons (FEB 2009) (22 U.S.C. 7104(g)).

(ix) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (Feb 2006) (46 U.S.C. App. 1241 and 10 U.S.C. 2631), if flow down is required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the Contractor may flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

(End of clause)

#### 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

FAR at <http://www.arnet.gov/far/> & DFARS at <http://www.acq.osd.mil/dp/dars/dfars.html>

(End of clause)



## 52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

(End of clause)

## 252.211-7003 ITEM IDENTIFICATION AND VALUATION (AUG 2008)

(a) Definitions. As used in this clause'

Automatic identification device means a device, such as a reader or interrogator, used to retrieve data encoded on machine-readable media.

Concatenated unique item identifier means--

(1) For items that are serialized within the enterprise identifier, the linking together of the unique identifier data elements in order of the issuing agency code, enterprise identifier, and unique serial number within the enterprise identifier; or

(2) For items that are serialized within the original part, lot, or batch number, the linking together of the unique identifier data elements in order of the issuing agency code; enterprise identifier; original part, lot, or batch number; and serial number within the original part, lot, or batch number.

Data qualifier means a specified character (or string of characters) that immediately precedes a data field that defines the general category or intended use of the data that follows.

DoD recognized unique identification equivalent" means a unique identification method that is in commercial use and has been recognized by DoD. All DoD recognized unique identification equivalents are listed at [http://www.acq.osd.mil/dpap/pdi/uid/iuid\\_equivalents.html](http://www.acq.osd.mil/dpap/pdi/uid/iuid_equivalents.html).

DoD unique item identification means a system of marking items delivered to DoD with unique item identifiers that have machine-readable data elements to distinguish an item from all other like and unlike items. For items that are serialized within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier and a unique serial number. For items that are serialized within the part, lot, or batch number within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier; the original part, lot, or batch number; and the serial number.

Enterprise means the entity (e.g., a manufacturer or vendor) responsible for assigning unique item identifiers to items.

Enterprise identifier means a code that is uniquely assigned to an enterprise by an issuing agency.

Government's unit acquisition cost means--

(1) For fixed-price type line, subline, or exhibit line items, the unit price identified in the contract at the time of delivery;

(2) For cost-type or undefinitized line, subline, or exhibit line items, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery; and

(3) For items produced under a time-and-materials contract, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery.

Issuing agency means an organization responsible for assigning a non-repeatable identifier to an enterprise (i.e., Dun & Bradstreet's Data Universal Numbering System (DUNS) Number, GS1 Company Prefix, or Defense Logistics Information System (DLIS) Commercial and Government Entity (CAGE) Code).

Issuing agency code means a code that designates the registration (or controlling) authority for the enterprise identifier.

Item means a single hardware article or a single unit formed by a grouping of subassemblies, components, or constituent parts.

Lot or batch number means an identifying number assigned by the enterprise to a designated group of items, usually referred to as either a lot or a batch, all of which were manufactured under identical conditions.

Machine-readable means an automatic identification technology media, such as bar codes, contact memory buttons, radio frequency identification, or optical memory cards.

Original part number means a combination of numbers or letters assigned by the enterprise at item creation to a class of items with the same form, fit, function, and interface.

Parent item means the item assembly, intermediate component, or subassembly that has an embedded item with a unique item identifier or DoD recognized unique identification equivalent.

Serial number within the enterprise identifier means a combination of numbers, letters, or symbols assigned by the enterprise to an item that provides for the differentiation of that item from any other like and unlike item and is never used again within the enterprise.

Serial number within the part, lot, or batch number means a combination of numbers or letters assigned by the enterprise to an item that provides for the differentiation of that item from any other like item within a part, lot, or batch number assignment.

Serialization within the enterprise identifier means each item produced is assigned a serial number that is unique among all the tangible items produced by the enterprise and is never used again. The enterprise is responsible for ensuring unique serialization within the enterprise identifier.

Serialization within the part, lot, or batch number means each item of a particular part, lot, or batch number is assigned a unique serial number within that part, lot, or batch number assignment. The enterprise is responsible for ensuring unique serialization within the part, lot, or batch number within the enterprise identifier.

Unique item identifier means a set of data elements marked on items that is globally unique and unambiguous. The term includes a concatenated unique item identifier or a DoD recognized unique identification equivalent.

Unique item identifier type means a designator to indicate which method of uniquely identifying a part has been used. The current list of accepted unique item identifier types is maintained at [http://www.acq.osd.mil/dpap/pdi/uid/uii\\_types.html](http://www.acq.osd.mil/dpap/pdi/uid/uii_types.html).

(b) The Contractor shall deliver all items under a contract line, subline, or exhibit line item.

(c) Unique item identifier.

(1) The Contractor shall provide a unique item identifier for the following:

(i) All delivered items for which the Government's unit acquisition cost is \$5,000 or more.

(ii) The following items for which the Government's unit acquisition cost is less than \$5,000:

-----

Contract line, subline, or exhibit line	Item description
item No.	Item description

-----

(iii) Subassemblies, components, and parts embedded within delivered items as specified in Attachment Number ----.

(2) The unique item identifier and the component data elements of the DoD unique item identification shall not change over the life of the item.

(3) Data syntax and semantics of unique item identifiers. The Contractor shall ensure that--

(i) The encoded data elements (except issuing agency code) of the unique item identifier are marked on the item using one of the following three types of data qualifiers, as determined by the Contractor:

(A) Application Identifiers (AIs) (Format Indicator 05 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.

(B) Data Identifiers (DIs) (Format Indicator 06 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.

(C) Text Element Identifiers (TEIs) (Format Indicator 12 of ISO/IEC International Standard 15434), in accordance with the Air Transport Association Common Support Data Dictionary; and

(ii) The encoded data elements of the unique item identifier conform to the transfer structure, syntax, and coding of messages and data formats specified for Format Indicators 05, 06, and 12 in ISO/IEC International Standard 15434, Information Technology--Transfer Syntax for High Capacity Automatic Data Capture Media.

(4) Unique item identifier.

(i) The Contractor shall--

(A) Determine whether to--

(1) Serialize within the enterprise identifier;

(2) Serialize within the part, lot, or batch number; or

(3) Use a DoD recognized unique identification equivalent; and

(B) Place the data elements of the unique item identifier (enterprise identifier; serial number; DoD recognized unique identification equivalent; and for serialization within the part, lot, or batch number only: original part, lot, or batch number) on items requiring marking by paragraph (c)(1) of this clause, based on the criteria provided in the version of MIL-STD-130, Identification Marking of U.S. Military Property, cited in the contract Schedule.

(ii) The issuing agency code--

(A) Shall not be placed on the item; and

(B) Shall be derived from the data qualifier for the enterprise identifier.

(d) For each item that requires unique item identification under paragraph (c)(1)(i) or (ii) of this clause, in addition to the information provided as part of the Material Inspection and Receiving Report specified elsewhere in this contract, the Contractor shall report at the time of delivery, either as part of, or associated with, the Material Inspection and Receiving Report, the following information:

(1) Unique item identifier.

(2) Unique item identifier type.

(3) Issuing agency code (if concatenated unique item identifier is used).

(4) Enterprise identifier (if concatenated unique item identifier is used).

(5) Original part number (if there is serialization within the original part number).

(6) Lot or batch number (if there is serialization within the lot or batch number).

(7) Current part number (optional and only if not the same as the original part number).

(8) Current part number effective date (optional and only if current part number is used).

(9) Serial number (if concatenated unique item identifier is used).

(10) Government's unit acquisition cost.

(11) Unit of measure.

(e) For embedded subassemblies, components, and parts that require DoD unique item identification under paragraph (c)(1)(iii) of this clause, the Contractor shall report as part of, or associated with, the Material Inspection and Receiving Report specified elsewhere in this contract, the following information:

(1) Unique item identifier of the parent item under paragraph (c)(1) of this clause that contains the embedded subassembly, component, or part.

(2) Unique item identifier of the embedded subassembly, component, or part.

(3) Unique item identifier type.\*\*

(4) Issuing agency code (if concatenated unique item identifier is used).\*\*

(5) Enterprise identifier (if concatenated unique item identifier is used).\*\*

(6) Original part number (if there is serialization within the original part number).\*\*

(7) Lot or batch number (if there is serialization within the lot or batch number).\*\*

(8) Current part number (optional and only if not the same as the original part number).\*\*

(9) Current part number effective date (optional and only if current part number is used).\*\*

(10) Serial number (if concatenated unique item identifier is used).\*\*

(11) Description.

\*\* Once per item.

(f) The Contractor shall submit the information required by paragraphs (d) and (e) of this clause in accordance with the data submission procedures at [http://www.acq.osd.mil/dpap/pdi/uid/data\\_submission\\_information.html](http://www.acq.osd.mil/dpap/pdi/uid/data_submission_information.html).

(g) Subcontracts. If the Contractor acquires by subcontract, any item(s) for which unique item identification is required in accordance with paragraph (c)(1) of this clause, the Contractor shall include this clause, including this paragraph (g), in the applicable subcontract(s).

(End of clause)

252.227-7025 LIMITATIONS ON THE USE OR DISCLOSURE OF GOVERNMENT-FURNISHED INFORMATION MARKED WITH RESTRICTIVE LEGENDS. (JUN 1995)

(a)(1) For contracts requiring the delivery of technical data, the terms "limited rights" and "Government purpose rights" are defined in the Rights in Technical Data--Noncommercial Items clause of this contract.

(2) For contracts that do not require the delivery of technical data, the terms "government purpose rights" and "restricted rights" are defined in the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause of this contract.

(3) For Small Business Innovative Research program contracts, the terms "limited rights" and "restricted rights" are defined in the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause of this contract.

(b) Technical data or computer software provided to the Contractor as Government furnished information (GFI) under this contract may be subject to restrictions on use, modification, reproduction, release, performance, display, or further disclosure.

(1) GFI marked with limited or restricted rights legends. The Contractor shall use, modify, reproduce, perform, or display technical data received from the Government with limited rights legends or computer software received with restricted rights legends only in the performance of this contract. The Contractor shall not, without the express written permission of the party whose name appears in the legend, release or disclose such data or software to any person.

(2) GFI marked with government purpose rights legends. The Contractor shall use technical data or computer software received from the Government with government purpose rights legends for government purposes only. The Contractor shall not, without the express written permission of the party whose name appears in the restrictive

legend, use, modify, reproduce, release, perform, or display such data or software for any commercial purpose or disclose such data or software to a person other than its subcontractors, suppliers, or prospective subcontractors or suppliers, who require the data or software to submit offers for, or perform, contracts under this contract. Prior to disclosing the data or software, the Contractor shall require the persons to whom disclosure will be made to complete and sign the non-disclosure agreement at 227.7103-7 of the Defense Federal Acquisition Regulation Supplement (DFARS).

(3) GFI marked with specially negotiated license rights legends. The Contractor shall use, modify, reproduce, release, perform, or display technical data or computer software received from the Government with specially negotiated license legends only as permitted in the license. Such data or software may not be released or disclosed to other persons unless permitted by the license and, prior to release or disclosure, the intended recipient has completed the non-disclosure agreement at DFARS 227.7103-7. The Contractor shall modify paragraph (1)(c) of the non-disclosure agreement to reflect the recipient's obligations regarding use, modification, reproduction, release, performance, display, and disclosure of the data or software.

(c) Indemnification and creation of third party beneficiary rights. The Contractor agrees--

(1) To indemnify and hold harmless the Government, its agents, and employees from every claim or liability, including attorneys fees, court costs, and expenses, arising out of, or in any way related to, the misuse or unauthorized modification, reproduction, release, performance, display, or disclosure of technical data or computer software received from the Government with restrictive legends by the Contractor or any person to whom the Contractor has released or disclosed such data or software; and

(2) That the party whose name appears on the restrictive legend, in addition to any other rights it may have, is a third party beneficiary who has the right of direct action against the Contractor, or any person to whom the Contractor has released or disclosed such data or software, for the unauthorized duplication, release, or disclosure of technical data or computer software subject to restrictive legends.

(End of clause)

#### 252.247-7023 TRANSPORTATION OF SUPPLIES BY SEA (MAY 2002)

(a) Definitions. As used in this clause --

(1) "Components" means articles, materials, and supplies incorporated directly into end products at any level of manufacture, fabrication, or assembly by the Contractor or any subcontractor.

(2) "Department of Defense" (DoD) means the Army, Navy, Air Force, Marine Corps, and defense agencies.

(3) "Foreign flag vessel" means any vessel that is not a U.S.-flag vessel.

(4) "Ocean transportation" means any transportation aboard a ship, vessel, boat, barge, or ferry through international waters.

(5) "Subcontractor" means a supplier, materialman, distributor, or vendor at any level below the prime contractor whose contractual obligation to perform results from, or is conditioned upon, award of the prime contract and who is

performing any part of the work or other requirement of the prime contract.

(6) "Supplies" means all property, except land and interests in land, that is clearly identifiable for eventual use by or owned by the DoD at the time of transportation by sea.

(i) An item is clearly identifiable for eventual use by the DoD if, for example, the contract documentation contains a reference to a DoD contract number or a military destination.

(ii) "Supplies" includes (but is not limited to) public works; buildings and facilities; ships; floating equipment and vessels of every character, type, and description, with parts, subassemblies, accessories, and equipment; machine tools; material; equipment; stores of all kinds; end items; construction materials; and components of the foregoing.

(7) "U.S.-flag vessel" means a vessel of the United States or belonging to the United States, including any vessel registered or having national status under the laws of the United States.

(b)(1) The Contractor shall use U.S.-flag vessels when transporting any supplies by sea under this contract.

(2) A subcontractor transporting supplies by sea under this contract shall use U.S.-flag vessels if--

(i) This contract is a construction contract; or

(ii) The supplies being transported are--

(A) Noncommercial items; or

(B) Commercial items that--

(1) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it contracts for f.o.b. destination shipment);

(2) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or

(3) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

(c) The Contractor and its subcontractors may request that the Contracting Officer authorize shipment in foreign-flag vessels, or designate available U.S.-flag vessels, if the Contractor or a subcontractor believes that --

(1) U.S.-flag vessels are not available for timely shipment;

(2) The freight charges are inordinately excessive or unreasonable; or

(3) Freight charges are higher than charges to private persons for transportation of like goods.

(d) The Contractor must submit any request for use of other than U.S.-flag vessels in writing to the Contracting Officer at least 45 days prior to the sailing date necessary to meet its delivery schedules. The Contracting Officer will process requests submitted after such date(s) as expeditiously as possible, but the Contracting Officer's failure to grant approvals to meet the shipper's sailing date will not of itself constitute a compensable delay under this or any other clause of this contract. Requests shall contain at a minimum --

(1) Type, weight, and cube of cargo;

(2) Required shipping date;

(3) Special handling and discharge requirements;

(4) Loading and discharge points;

(5) Name of shipper and consignee;

(6) Prime contract number; and

(7) A documented description of efforts made to secure U.S.-flag vessels, including points of contact (with names and telephone numbers) with at least two U.S.-flag carriers contacted. Copies of telephone notes, telegraphic and facsimile message or letters will be sufficient for this purpose.

(e) The Contractor shall, within 30 days after each shipment covered by this clause, provide the Contracting Officer and the Maritime Administration, Office of Cargo Preference, U.S. Department of Transportation, 400 Seventh Street SW., Washington, DC 20590, one copy of the rated on board vessel operating carrier's ocean bill of lading, which shall contain the following information:

(1) Prime contract number;

(2) Name of vessel;

(3) Vessel flag of registry;

(4) Date of loading;

(5) Port of loading;

(6) Port of final discharge;

(7) Description of commodity;

(8) Gross weight in pounds and cubic feet if available;

(9) Total ocean freight in U.S. dollars; and

(10) Name of the steamship company.

(f) The Contractor shall provide with its final invoice under this contract a representation that to the best of its knowledge and belief--

(1) No ocean transportation was used in the performance of this contract;

(2) Ocean transportation was used and only U.S.-flag vessels were used for all ocean shipments under the contract;

(3) Ocean transportation was used, and the Contractor had the written consent of the Contracting Officer for all non-U.S.-flag ocean transportation; or

(4) Ocean transportation was used and some or all of the shipments were made on non-U.S.-flag vessels without the written consent of the Contracting Officer. The Contractor shall describe these shipments in the following format:

ITEM DESCRIPTION	CONTRACT LINE ITEMS	QUANTITY
---------------------	------------------------	----------

---



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TOTAL \_\_\_\_\_

(g) If the final invoice does not include the required representation, the Government will reject and return it to the Contractor as an improper invoice for the purposes of the Prompt Payment clause of this contract. In the event there has been unauthorized use of non-U.S.-flag vessels in the performance of this contract, the Contracting Officer is entitled to equitably adjust the contract, based on the unauthorized use.

(h) In the award of subcontracts for the types of supplies described in paragraph (b)(2) of this clause, the Contractor shall flow down the requirements of this clause as follows:

(1) The Contractor shall insert the substance of this clause, including this paragraph (h), in subcontracts that exceed the simplified acquisition threshold in part 2 of the Federal Acquisition Regulation.

(2) The Contractor shall insert the substance of paragraphs (a) through (e) of this clause, and this paragraph (h), in subcontracts that are at or below the simplified acquisition threshold in part 2 of the Federal Acquisition Regulation.

(End of clause)

252.247-7024 NOTIFICATION OF TRANSPORTATION OF SUPPLIES BY SEA (MAR 2000)

(a) The Contractor has indicated by the response to the solicitation provision, Representation of Extent of Transportation by Sea, that it did not anticipate transporting by sea any supplies. If, however, after the award of this contract, the Contractor learns that supplies, as defined in the Transportation of Supplies by Sea clause of this contract, will be transported by sea, the Contractor --

(1) Shall notify the Contracting Officer of that fact; and

(2) Hereby agrees to comply with all the terms and conditions of the Transportation of Supplies by Sea clause of this contract.

(b) The Contractor shall include this clause; including this paragraph (b), revised as necessary to reflect the relationship of the contracting parties--

(1) In all subcontracts under this contract, if this contract is a construction contract; or

(2) If this contract is not a construction contract, in all subcontracts under this contract that are for--

(i) Noncommercial items; or

(ii) Commercial items that--

(A) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it subcontracts for f.o.b. destination shipment);

(B) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or

(C) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

(End of clause)

Section J - List of Documents, Exhibits and Other Attachments

The following document(s), exhibit(s), and other attachment(s) form a part of this contract:

Attachment 1: Contract Data Requirements List (CDRL), Exhibit A, 2 pages

Attachment 2: TEMPEST Cost, man-hours and schedule data format, 1 page

Attachment 3: Financial Accounting Data Sheet(s), 1 page

Attachment 4: Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software, 3 pages