

1. REQUEST NO. N00174-04-Q-0128	2. DATE ISSUED 21-Jul-2004	3. REQUISITION/PURCHASE REQUEST NO. 41135431	4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1	RATING DO
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5a. ISSUED BY NAVSEA INDIAN HEAD 101 STRAUSS AVE. ATTN: BRENDA PRICE 1143B PRICEBL@H.NAVY.MIL INDIAN HEAD MD 20640-5035	6. DELIVER BY <i>(Date)</i> SEE SCHEDULE
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5b. FOR INFORMATION CALL: <i>(Name and Telephone no.) (No collect calls)</i> BRENDA PRICE 301/744-6570	7. DELIVERY <input checked="" type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER <i>(See Schedule)</i>
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8. TO: NAME AND ADDRESS, INCLUDING ZIP CODE	9. DESTINATION <i>(Consignee and address, including ZIP Code)</i> SEE SCHEDULE
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10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS:
(Date) 11-Aug-2004

IMPORTANT: This is a request for information, and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or services. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotations must be completed by the quoter.

11. SCHEDULE *(Include applicable Federal, State, and local taxes)*

ITEM NO. (a)	SUPPLIES/ SERVICES (b)	QUANTITY (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
SEE SCHEDULE					

12. DISCOUNT FOR PROMPT PAYMENT	a. 10 CALENDAR DAYS %	b. 20 CALENDAR DAYS %	c. 30 CALENDAR DAYS %	d. CALENDAR DAYS No. %
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NOTE: Additional provisions and representations [] are [] are not attached.

13. NAME AND ADDRESS OF QUOTER <i>(Street, City, County, State, and ZIP Code)</i>	14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION	15. DATE OF QUOTATION
	16. NAME AND TITLE OF SIGNER <i>(Type or print)</i>	TELEPHONE NO. <i>(Include area code)</i>

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	MICRO-HARD LAYER PROPELLANT TESTING ON THE MK 104 SUSTAIN GRAIN SLOT AND BULB TIP COUPONS IN ACCORDANCE WITH STATEMENT OF WORK FOB: Destination	1	Lot	\$	\$
					\$

CLAUSES INCORPORATED BY FULL TEXT

52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)

(a) Definitions.

Common parent, as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

Taxpayer Identification Number (TIN), as used in this provision, means the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the IRS. If the resulting contract is subject to the payment reporting requirements described in Federal Acquisition Regulation (FAR) 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.

(c) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(d) Taxpayer Identification Number (TIN).

___ TIN:-----

___ TIN has been applied for.

___ TIN is not required because:

___ Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

___ Offeror is an agency or instrumentality of a foreign government;

___ Offeror is an agency or instrumentality of the Federal Government.

(e) Type of organization.

___ Sole proprietorship;

___ Partnership;

___ Corporate entity (not tax-exempt);

___ Corporate entity (tax-exempt);

___ Government entity (Federal, State, or local);

___ Foreign government;

___ International organization per 26 CFR 1.6049-4;

___ Other-----

(f) Common parent.

___ Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this provision.

___ Name and TIN of common parent:

Name-----

TIN-----

(End of provision)

52.213-4 TERMS AND CONDITIONS--SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS)
(MAY 2004)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses that are incorporated by reference:

(1) The clauses listed below implement provisions of law or Executive order:

- (i) 52.222-3, Convict Labor (June 2003) (E.O. 11755).
 - (ii) 52.222-21, Prohibition of Segregated Facilities (Feb 1999) (E.O. 11246).
 - (iii) 52.222-26, Equal Opportunity (Apr 2002) (E.O. 11246).
 - (iv) 52.225-13, Restrictions on Certain Foreign Purchases (Dec 2003) (E.o.s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).
 - (v) 52.233-3, Protest After Award (Aug 1996) (31 U.S.C. 3553).
- (2) Listed below are additional clauses that apply:
- (i) 52.232-1, Payments (Apr 1984).
 - (ii) 52.232-8, Discounts for Prompt Payment (Feb 2002).
 - (iii) 52.232-11, Extras (Apr 1984).
 - (iv) 52.232-25, Prompt Payment (Oct 2003).
 - (v) 52.233-1, Disputes (Jul 2002).
 - (vi) 52.244-6, Subcontracts for Commercial Items (May 2004).
 - (vii) 52.253-1, Computer Generated Forms (Jan 1991).
- (b) The Contractor shall comply with the following FAR clauses, incorporated by reference, unless the circumstances do not apply:
- (1) The clauses listed below implement provisions of law or Executive order:
- (i) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (Jan 2004) (E.O. 13126). (Applies to contracts for supplies exceeding the micro-purchase threshold.)
 - (ii) 52.222-20, Walsh-Healey Public Contracts Act (DEC 1996) (41 U.S.C. 35-45) (Applies to supply contracts over \$10,000 in the United States, Puerto Rico, or the U.S. Virgin Islands).
 - (iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212) (Applies to contracts of \$25,000 or more).
 - (iv) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793) (Applies to contracts over \$10,000, unless the work is to be performed outside the United States by employees recruited outside the United States.) (For purposes of this clause, United States includes the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.).
 - (v) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212) (Applies to contracts over \$25,000).
 - (vi) 52.222-41, Service Contract Act, As Amended (May 1989) (41 U.S.C. 351, et seq.) (Applies to service contracts over \$2,500 that are subject to the Service Contract Act and will be performed in the United States, District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, Johnston Island, Wake Island, or the outer continental shelf lands.).

(vii) 52.223-5, Pollution Prevention and Right-to-Know Information (Aug 2003) (E.O. 13148) (Applies to services performed on Federal facilities).

(viii) 52.225-1, Buy American Act--Supplies (June 2003) (41 U.S.C. 10a-10d) (Applies to contracts for supplies, and to contracts for services involving the furnishing of supplies, for use in the United States or its outlying areas, if the value of the supply contract or supply portion of a service contract exceeds the micro-purchase threshold and the **acquisition--**

(A) Is set aside for small business concerns; or

(B) Cannot be set aside for small business concerns (see 19.502-2), and does not exceed \$25,000.)

(ix) 52.232-33, Payment by Electronic Funds Transfer--Central Contractor Registration (May 1999). (Applies when the payment will be made by electronic funds transfer (EFT) and the payment office uses the Central Contractor Registration (CCR) database as its source of EFT information.)

(x) 52.232-34, Payment by Electronic Funds Transfer--Other than Central Contractor Registration (Oct 2003). (Applies when the payment will be made by EFT and the payment office does not use the CCR database as its source of EFT information.)

(xi) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (APR 2003) (46 U.S.C. Appx 1241). (Applies to supplies transported by ocean vessels (except for the types of subcontracts listed at 47.504(d).)

(2) Listed below are additional clauses that may apply:

(i) 52.209-6, Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (JULY 1995) (Applies to contracts over \$25,000).

(ii) 52.211-17, Delivery of Excess Quantities (SEPT 1989) (Applies to fixed-price supplies).

(iii) 52.247-29, F.o.b. Origin (JUN 1988) (Applies to supplies if delivery is f.o.b. origin).

(iv) 52.247-34, F.o.b. Destination (NOV 1991) (Applies to supplies if delivery is f.o.b. destination).

(c) FAR 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):

www.arnet.gov/far/

(d) Inspection/Acceptance. The Contractor shall tender for acceptance only those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or reperformance of nonconforming services at no increase in contract price. The Government must exercise its postacceptance rights--

(1) Within a reasonable period of time after the defect was discovered or should have been discovered; and

(2) Before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

(e) Excusable delays. The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence, such as acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.

(f) Termination for the Government's convenience. The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid a percentage of the contract price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges that the Contractor can demonstrate to the satisfaction of the Government, using its standard record keeping system, have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or costs incurred that reasonably could have been avoided.

(g) Termination for cause. The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon request, with adequate assurances of future performance. In the event of termination for cause, the Government shall not be liable to the Contractor for any amount for supplies or services not accepted, and the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly terminated this contract for default, such termination shall be deemed a termination for convenience.

(h) Warranty. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

(End of clause)

52.219-1 SMALL BUSINESS PROGRAM REPRESENTATIONS (MAY 2004) - ALTERNATE I (APR 2002)

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is 541330.

(2) The small business size standard is \$23M.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b) Representations. (1) The offeror represents as part of its offer that it () is, () is not a small business concern.

(2) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents, for general statistical purposes, that it () is, () is not a small disadvantaged business concern as defined in 13 CFR 124.1002.

(3) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it () is, () is not a women-owned small business concern.

(4) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it () is, () is not a veteran-owned small business concern.

(5) (Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (b)(4) of this provision.) The offeror represents as part of its offer that it () is, () is not a service-disabled veteran-owned small business concern.

(6) [Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.] The offeror represents, as part of its offer, that--

(i) It () is, () is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material change in ownership and control, principal office, or HUBZone employee percentage has occurred since it was certified by the Small Business Administration in accordance with 13 CFR part 126; and

(ii) It () is, () is not a joint venture that complies with the requirements of 13 CFR part 126, and the representation in paragraph (b)(6)(i) of this provision is accurate for the HUBZone small business concern or concerns that are participating in the joint venture. (The offeror shall enter the name or names of the HUBZone small business concern or concerns that are participating in the joint venture:_____.) Each HUBZone small business concern participating in the joint venture shall submit a separate signed copy of the HUBZone representation.

(7) (Complete if offeror represented itself as disadvantaged in paragraph (b)(2) of this provision.) The offeror shall check the category in which its ownership falls:

___ Black American.

___ Hispanic American.

___ Native American (American Indians, Eskimos, Aleuts, or Native Hawaiians).

___ Asian-Pacific American (persons with origins from Burma, Thailand, Malaysia, Indonesia, Singapore, Brunei, Japan, China, Taiwan, Laos, Cambodia (Kampuchea), Vietnam, Korea, The Philippines, U.S. Trust Territory of the Pacific Islands (Republic of Palau), Republic of the Marshall Islands, Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, Guam, Samoa, Macao, Hong Kong, Fiji, Tonga, Kiribati, Tuvalu, or Nauru).

___ Subcontinent Asian (Asian-Indian) American (persons with origins from India, Pakistan, Bangladesh, Sri Lanka, Bhutan, the Maldives Islands, or Nepal).

___ Individual/concern, other than one of the preceding.

(c) Definitions. As used in this provision--

Service-disabled veteran-owned small business concern--

(1) Means a small business concern--

(i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and

(ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a service-disabled veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

"Small business concern," means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (a) of this provision.

Veteran-owned small business concern means a small business concern--

(1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned small business concern," means a small business concern --

(1) That is at least 51 percent owned by one or more women or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; or

(2) Whose management and daily business operations are controlled by one or more women.

(d) Notice.

(1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.

(2) Under 15 U.S.C. 645(d), any person who misrepresents a firm's status as a small, HUBZone small, small disadvantaged, or women-owned small business concern in order to obtain a contract to be awarded under the preference programs established pursuant to section 8(a), 8(d), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(d) for a definition of program eligibility, shall--

(i) Be punished by imposition of fine, imprisonment, or both;

(ii) Be subject to administrative remedies, including suspension and debarment; and

(iii) Be ineligible for participation in programs conducted under the authority of the Act.

(End of provision)

52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (FEB 1999)

The offeror represents that --

(a) () It has, () has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation;

(b) () It has, () has not, filed all required compliance reports; and

(c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

(End of provision)

52.222-25 AFFIRMATIVE ACTION COMPLIANCE (APR 1984)

The offeror represents that

(a) [] it has developed and has on file, [] has not developed and does not have on file, at each establishment, affirmative action programs required by the rules and regulations of the Secretary of Labor (41 CFR 60-1 and 60-2), or

(b) [] has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

(End of provision)

52.232-23 ASSIGNMENT OF CLAIMS (JAN 1986)

(a) The Contractor, under the Assignment of Claims Act, as amended, 31 U.S.C. 3727, 41 U.S.C. 15 (hereafter referred to as "the Act"), may assign its rights to be paid amounts due or to become due as a result of the performance of this contract to a bank, trust company, or other financing institution, including any Federal lending agency. The assignee under such an assignment may thereafter further assign or reassign its right under the original assignment to any type of financing institution described in the preceding sentence.

(b) Any assignment or reassignment authorized under the Act and this clause shall cover all unpaid amounts payable under this contract, and shall not be made to more than one party, except that an assignment or reassignment may be made to one party as agent or trustee for two or more parties participating in the financing of this contract.

(c) The Contractor shall not furnish or disclose to any assignee under this contract any classified document (including this contract) or information related to work under this contract until the Contracting Officer authorizes such action in writing.

(End of clause)

252.204-7004 REQUIRED CENTRAL CONTRACTOR REGISTRATION ALTERNATE A (NOV 2003)

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

“Central Contractor Registration (CCR) database” means the primary Government repository for contractor information required for the conduct of business with the Government.

“Commercial and Government Entity (CAGE) code” means--

(1) A code assigned by the Defense Logistics Information Service (DLIS) to identify a commercial or Government entity; or

(2) A code assigned by a member of the North Atlantic Treaty Organization that DLIS records and maintains in the CAGE master file. This type of code is known as an “NCAGE code.”

“Data Universal Numbering System (DUNS) number” means the 9-digit number assigned by Dun and Bradstreet, Inc. (D&B) to identify unique business entities.

“Data Universal Numbering System +4 (DUNS+4) number” means the DUNS number assigned by D&B plus a 4-character suffix that may be assigned by a business concern. (D&B has no affiliation with this 4-character suffix.) This 4-character suffix may be assigned at the discretion of the business concern to establish additional CCR records for identifying alternative Electronic Funds Transfer (EFT) accounts (see Subpart 32.11 of the Federal Acquisition Regulation) for the same parent concern.

“Registered in the CCR database” means that--

(1) The Contractor has entered all mandatory information, including the DUNS number or the DUNS+4 number, into the CCR database;

(2) The Contractor's CAGE code is in the CCR database; and

(3) The Government has validated all mandatory data fields and has marked the records “Active.”

(b)(1) By submission of an offer, the offeror acknowledges the requirement that a prospective awardee shall be registered in the CCR database prior to award, during performance, and through final payment of any contract, basic agreement, basic ordering agreement, or blanket purchasing agreement resulting from this solicitation.

(2) The offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation “DUNS” or “DUNS +4” followed by the DUNS or DUNS +4 number that identifies the offeror's name and address exactly as stated in the offer. The DUNS number will be used by the Contracting Officer to verify that the offeror is registered in the CCR database.

(c) If the offeror does not have a DUNS number, it should contact Dun and Bradstreet directly to obtain one.

(1) An offeror may obtain a DUNS number--

(i) If located within the United States, by calling Dun and Bradstreet at 1-866-705-5711 or via the Internet at <http://www.dnb.com>; or

(ii) If located outside the United States, by contacting the local Dun and Bradstreet office.

(2) The offeror should be prepared to provide the following information:

(i) Company legal business.

(ii) Tradestyle, doing business, or other name by which your entity is commonly recognized.

(iii) Company Physical Street Address, City, State, and Zip Code.

(iv) Company Mailing Address, City, State and Zip Code (if separate from physical).

(v) Company Telephone Number.

(vi) Date the company was started.

(vii) Number of employees at your location.

(viii) Chief executive officer/key manager.

(ix) Line of business (industry).

(x) Company Headquarters name and address (reporting relationship within your entity).

(d) If the Offeror does not become registered in the CCR database in the time prescribed by the Contracting Officer, the Contracting Officer will proceed to award to the next otherwise successful registered Offeror.

(e) Processing time, which normally takes 48 hours, should be taken into consideration when registering. Offerors who are not registered should consider applying for registration immediately upon receipt of this solicitation.

(f) The Contractor is responsible for the accuracy and completeness of the data within the CCR database, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in the CCR database after the initial registration, the Contractor is required to review and update on an annual basis from the date of initial registration or subsequent updates its information in the CCR database to ensure it is current, accurate and complete. Updating information in the CCR does not alter the terms and conditions of this contract and is not a substitute for a properly executed contractual document.

(g)(1)(i) If a Contractor has legally changed its business name, "doing business as" name, or division name (whichever is shown on the contract), or has transferred the assets used in performing the contract, but has not completed the necessary requirements regarding novation and change-of-name agreements in Subpart 42.12, the Contractor shall provide the responsible Contracting Officer a minimum of one business day's written notification of its intention to (A) change the name in the CCR database; (B) comply with the requirements of Subpart 42.12 of the FAR; and (C) agree in writing to the timeline and procedures specified by the responsible Contracting Officer. The Contractor must provide with the notification sufficient documentation to support the legally changed name.

(ii) If the Contractor fails to comply with the requirements of paragraph (g)(1)(i) of this clause, or fails to perform the agreement at paragraph (g)(1)(i)(C) of this clause, and, in the absence of a properly executed novation or change-of-name agreement, the CCR information that shows the Contractor to be other than the Contractor indicated in the contract will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the electronic funds transfer (EFT) clause of this contract.

(2) The Contractor shall not change the name or address for EFT payments or manual payments, as appropriate, in the CCR record to reflect an assignee for the purpose of assignment of claims (see FAR Subpart 32.8, Assignment of Claims). Assignees shall be separately registered in the CCR database. Information provided to the Contractor's CCR record that indicates payments, including those made by EFT, to an ultimate recipient other than that Contractor will be considered to be incorrect information within the meaning of the "Suspension of payment" paragraph of the EFT clause of this contract.

(h) Offerors and Contractors may obtain information on registration and annual confirmation requirements via the internet at <http://www.ccr.gov> or by calling 1-888-227-2423, or 269-961-5757.

(End of clause)

1. The policy of this station is to schedule periods of reduced operations or shutdown during holiday periods. Deliveries will not be accepted on Saturdays, Sundays or Holidays except as specifically requested by the Naval Sea Systems Command. All goods or services attempted to be delivered on a Saturday, Sunday or Holiday without specific instructions from the Contracting Officer or his duly appointed representative will be returned to the contractor at his expense with no cost or liability to the U.S. Government.

2. The scheduled holidays for Indian Head Division, Naval Sea Systems Command are:

HOLIDAY	DATE OF OBSERVANCE
New Year's Day	01 January
Martin Luther King's Birthday	19 January
President's Day	16 February
Memorial Day	31 May
Independence Day	5 July
Labor Day	6 September
Columbus Day	11 October
Veteran's Day	11 November
Thanksgiving Day	25 November
Christmas Day	24 December

* If the actual date falls on a Saturday, the holiday will be observed the preceding Friday. If the holiday falls on a Sunday, the observance shall be on the following Monday.

3. The hours of operation for the Contracts Division and Receiving Branch are as follows:

AREA	FROM	TO
Contracts Division (BLDG. 1558)	7:30 A.M.	4:00 P.M.
Receiving Branch (BLDG. 116)	7:30 A.M.	11:00 A.M.
	12:30 P.M.	2:00 P.M.

If you intend to visit the Contracts Division, it is advised that you call for an appointment at least 24 hours in advance.

STATEMENT OF WORK

Statement of Work

MK 104 DTRM Sustain Propellant Micro Bone Testing

Purpose

Indian Head performs a cumulative damage analysis that relies on a mathematical model of the MK104 DTRM sustainer propellant inhibitor interface hard layer. The gradient observed at the interface has not been accessible to direct measurement by conventional methods. The currently utilized method derives the mechanical property gradient by indirect means. This set of tests will produce data that can be compared to the results of the derived method. This will indicate the validity of the current working model. Propellant will be tested at different strain rates to failure so that an interface layer damage function can be derived. Relaxation data will be taken to test models of the Young's modulus gradient.

Historical data, including penetrometer, has indicated there is no difference between the bulb tip and slot side with respect to the hard layer properties. There are samples from each area included in these tests to compare these properties and verify the validity of this working assumption.

Chemical analysis for mobile species and degree of cross link density will also be performed as part of IHD's on-going quality evaluation program.

Test Matrix

The following tests will utilize the micro sample specimen technique. The micro propellant samples, the M_i layers in figure 1, are approximately 0.01 inch (0.25 mm) thick. Approximately ten of them will therefore be needed to span the roughly 0.1 inch thick interface layer. They will be taken from the two locations shown, the bulb tip and slot side. Specimens from the slot side are oriented radially as shown and from the bulb tip longitudinally, along the motor's axis. Bulk propellant micro specimens will be tested to reveal any size bias that these small samples may have.

Liner and inhibitor micro specimens, the L_i and I_i , respectively, will also be tested.

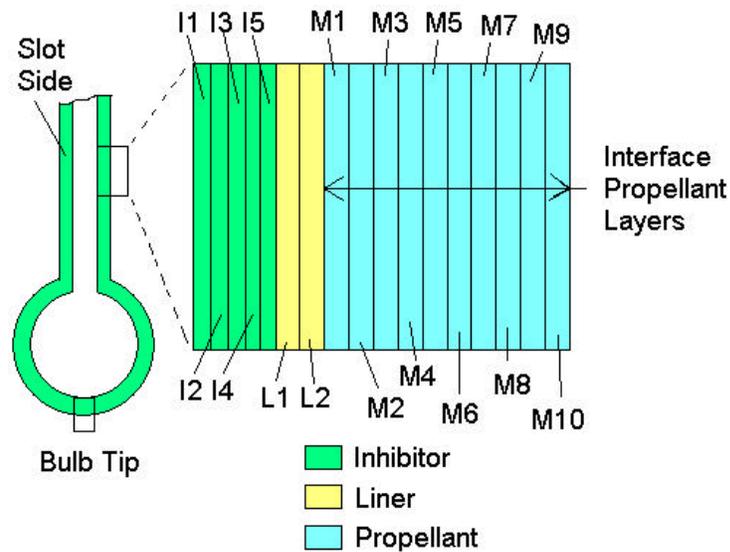


Figure 1. Interface Micro-Specimens (Not to Scale)

Constant rate uniaxial and relaxation tensile testing

End bonded micro specimens (0.01 inch thick) are tested at the conditions shown in Tables 1 and 2. There will be five replicate specimens tested for layers M1 and M2 and four in all other layers including liner and inhibitor. Micro specimen relaxation modulus coupons are ramped up to 2.0% strain at a strain rate of 0.1 inch/min. Relaxation time is 20 minutes. A suitable end bonded bar specimen measuring 0.25 X 0.01 X 1.5 inches is used for relaxation modulus testing.

Table 1. Liner and Inhibitor Relaxation Tensile Specimens

Temperature (+/- 2 °F)	Ramp up strain rate, In/min	Relaxation Strain Level, %	Layers Tested	Number of specimens tested
77	0.1	2.0	I1, I3, I5, L1 & L2	15

It will probably not be possible to cut each specimen at the exact distance from the interface that is being asked. Deviations are acceptable but a best estimate of the distance of each specimen from the interface should be recorded for each test. "Distance from the interface" is defined as the distance from the propellant/liner interface to the mid-point (half width) of the micro specimen.

Bulk propellant samples are tested to failure and in relaxation for bias reference according to Table 3. The JANNAF Class A specimens of Table 3 are tested at somewhat higher strain rates than their bulk micro bone counterparts. This is an attempt to equalize the actual strain rate between micro and full size coupons, once the difference in specimen gage length is taken into account. The JANNAF A rates provided are approximate and can be adjusted to match the micro bone gage length strain rate as required. Bulk relaxation modulus coupons are strained to 3% using a crosshead speed of 0.5 inches/min using a 0.5 X 0.5 X 4.0 inch end bonded bar specimen. Micro-relaxation coupons are tested using a suitable end bonded bar specimen measuring 0.25 X 0.01 X 1.5 inches. In all tests the relaxation time is 20 minutes.

Table 2. M-Layer Interface Tensile Specimens

Test Type	Crosshead Rate (In/min)	Relaxation Strain Level, %	Temperature (+/- 2 °F)	Layers Tested	Number of specimens tested
		Slot Side			
CR to failure	0.002	N/A	77	M1-3, 5	18
CR to failure	20.0	N/A	77	M1-3, 5	18
CR to failure	0.2	N/A	77	M1-5, 7, 9	30
Relaxation	0.1 (ramp up)	2.0	77	M1-5, 7, 9	30
		Bulb Tip			
CR to failure	0.002	N/A	77	M1-3, 5	18
CR to failure	20.0	N/A	77	M1-3, 5	18
CR to failure	0.2	N/A	77	M1-3, 5, 8	22
Relaxation	0.1 (ramp up)	2.0	77	M1-3, 5, 8	22
				Total	176

(CR = Constant Rate)

Table 3. Bulk Propellant Tensile Specimens

Crosshead Rate (In/min)	Relaxation Strain Level, %	Temperature (+/- 2 °F)	Specimen Type	Number of replicates
0.002	N/A	77	0.01 inch Micro bone	6
20.0	N/A	77	0.01 inch Micro bone	6
0.006	N/A	77	JANNAF A	6
60.0	N/A	77	JANNAF A	6
0.1 (ramp up)	3.0	77	Micro Relaxation	6
0.5 (ramp up)	3.0	77	Relaxation Bar	6
			Total	30

Chemical Analysis

The inhibitor and liner, as well as the propellant immediately adjacent to it will also be assayed for a number of compounds. These include the matrix anti-oxidant – AO-2246, the propellant plasticizer – DOA, the propellant burn rate modifier catocene and the HX-868 liner-curing agent. The degree of matrix cross link density and extractable component will also be measured. Analysis will be performed at interface layer locations that parallel what is done for the micro tensile coupons. Specific tests are defined in Tables 4 & 5. Bulk regions progressively further away from the interface will also be tested. These tests are outlined in Table 6. The tests for AO-2246 and HX-868 will be done at ½ inch and 1-½ inches from the interface. The tests for DOA, catocene, cross link density and extractable component are to be done at ½ inch intervals, for a total of five tests each, into the bulk.

Table 4. Liner and Inhibitor Chemical Analysis

Layers Tested for AO-2246	Layers Tested for DOA	Layers Tested for Catocene	Layers Tested for HX-868	Layers Tested for Cross Link Density	Layers Tested for Extract Component	Total Number of Tests
I1, I3, I5, L1 & L2	I1-5, L1 & L2	I1, I3, I5, L1 & L2	I1, I3, I5, L1 & L2	I1, I3, I5, L1 & L2	I1, I3, I5, L1 & L2	32

Table 5. M-Layer Interface Chemical Analysis

Layers Tested for AO-2246	Layers Tested for DOA	Layers Tested for Catocene	Layers Tested for HX-868	Layers Tested for Cross Link Density	Layers Tested for Extract Component	Total Number of Tests
		Slot Side				
M1-4, 6 & 8	M1-4, 6 & 8	M1-4, 6 & 8	M1-4, 6 & 8	M1-4, 6 & 8	M1-4, 6 & 8	36
		Bulb Tip				
M1-4, 6 & 8	M1-4, 6 & 8	M1-4, 6 & 8	M1-4, 6 & 8	M1-4, 6 & 8	M1-4, 6 & 8	36
		Total				72

Table 6. Bulk Propellant Chemical Analysis

(Distances and intervals given are measured from the propellant/liner interface)

Tests for AO-2246	Tests for DOA	Tests for Catocene	Tests for HX-868	Layers Tested for Cross Link Density	Layers Tested for Extract Component	Total Number of Tests
2	5	5	2	5	5	24
@ 1/2" & 1 1/2"	@ 1/2" intervals	@ 1/2" intervals	@ 1/2" & 1 1/2"	@ 1/2" intervals	@ 1/2" intervals	

Deliverables

Contractor will provide the raw tensile test output data (Tables 1 through 3) consisting of load versus time in an electronic format (compatible with Microsoft Word, Excel or as a text file). Maximum corrected stress and strain at maximum corrected stress will be provided for each test. All samples provided to the contractor will be labeled with a sample name. The results should reflect these names, as they denote the original location of the material from the motor. Digital photos of each sample will be taken before and after testing and provided in an electronic format to NAVSEA Indian Head (e.g. as a .gif, .jpg, or. tiff).

Weight fractions of all of the chemical species tests asked for in Tables 4 through 6 will be provided. A diffusion model of the sustain propellant inhibitor interface region will also be derived.

A summary of the test methods (mechanical and chemical) and sample preparation.

Deliverable from Indian Head

Indian Head will provide a total of nine (9) samples of propellant material. There will be two (2) blocks (0.5" x 1.0" x 2.0") of Inhibitor/interface and propellant from the slot side, four (4) blocks (2.0" x 1.5" x 2.5") of Inhibitor/interface and propellant bulb tip and three (3) slabs (0.5" x 5.0" x 6.0" approximately) from the bulk propellant. The two slot side blocks will originate from the material adjacent to the bulb tips provided. Interface regions are indicated in figure 1. It has been assumed that all chemical test samples will be derived from the same propellant specimen from which tensile coupons are prepared.

GFM will not be returned to the Government. The contractor is responsible for disposing of the GFM in accordance with relevant safety and environmental laws.

INSPECTION AND ACCEPTANCE

Supplies/services will be inspected/accepted at:

INSPECTION AND ACCEPTANCE OF ALL
MATERIALS TO BE AT DESTINATION BY
THE RECEIVING ACTIVITY

CLAUSES INCORPORATED BY REFERENCE

52.215-1

Instructions to Offerors--Competitive Acquisition

JAN 2004

DELIVERIES AND PERFORMANCE

CLIN	DELIVERY DATE	SHIP TO ADDRESS
0001	90 days after date of order	NAVSEA INDIAN HEAD RECEIVING OFFICER BUILDING 116 101 STRAUSS AVE INDIAN HEAD MD 20640-5035

POC: TO BE PROVIDED AT TIME OF AWARD

CLAUSES INCORPORATED BY FULL TEXT

IHD 126 - GOVERNMENT-FURNISHED PROPERTY (FEB 2000) (NAVSEA/IHD)

- (a) The Government will furnish the following property to the Contractor for use in performance of this contract in accordance with the following schedule:

A total of nine (9) samples of propellant material, including
 Two (2) blocks (0.5' x 1.0" x 2.0") of Inhibitor/interface and propellant from the slot side
 Four (4) blocks (2.0" x 1.5" x 2.5") of Inhibitor/interface and propellant bulb tip
 Three (3) slabs (0.5" x 5.0" x 6.0" approximately) from bulk propellant

The above government furnished material is to be delivered to the contractor within 30 days from date of award.

- (b) The property will be delivered at the Governments expense at or near **(The contractor is to insert the address, city or town and state in which the plant is located; and if rail transportation is specified in paragraph (a) above, the exact location of private siding or public team track at which rail shipments will be received, as well as the name of the railroad(s)):**

- (c) Only the property listed above in the quantity shown will be furnished by the Government. All other property required for performance of this contract shall be furnished by the contractor.

- (d) Within 30 days after Government furnished property is determined by the contractor to be lost, damaged, destroyed, no longer usable, or no longer needed for the performance of the contract, the Contractor shall notify the Contracting Officer, in writing, thereof.

INSTRUCTIONS TO OFFERORS**Instructions to Offerors and Evaluation Factors for Award****THE OFFEROR SHALL PROVIDE THE FOLLOWING INFORMATION:**

Each offeror must submit an offer/proposal and other written information in strict accordance with these instructions. When evaluating an offeror the Government will consider how well the offeror complied with both the letter and spirit

of these instructions. The government will consider any failure on the part of the offeror to comply with both the letter and the spirit of these instructions to be an indication of the type of conduct it can expect during performance under the purchase order. Therefore, the Government encourages offerors to contact the contracting officer by telephone, facsimile transmission, e-mail, or mail in order to request an explanation of any aspect of these instructions.

Offerors are required to follow these specific instructions in submitting their information. Each offeror's submission shall be screened by the Contracting Officer or a designee upon receipt to insure compliance with the instructions contained in the RFQ. Elimination of an offeror for failure to follow the specific instructions in the RFQ is at the sole discretion of the Contracting Officer.

Exceptions: Offerors are not encouraged to take exceptions to this solicitation however, any exceptions taken to the specification, terms and conditions, or the solicitation in general shall be explained in detail and set forth in a cover letter. Offerors are to detail the particular clause, paragraph, and page to which they are taking exception.

OFFERORS SHALL ADDRESS THE FOLLOWING FACTORS:

1. Technical Proposal
2. Price

1. Technical Proposal - Shall address Factors as detailed below, which are not listed in any order of importance.

(1) Technical Comprehension

(1-1) Understanding of depth and breadth of work efforts including:

- A comprehensive understanding of all work efforts required by the RFP, SOW, i.e.
- A multi-layered material structure will be analyzed, i.e. layers of rubber inhibitor and liner bonded to propellant. Micro specimens (0.01 inch thick coupons) of each of these materials must be prepared. These must be tested chemically and mechanically (i.e. uniaxial constant strain rate and relaxation (constant strain) testing along with DOA, catocene, AO-2246, HX-868, extractable component, and cross link density assay). A chemical diffusion model will be prepared using the species concentration results.
- (1-2) Technical approach of work effort
- Provide an in-depth work plan that details the propellant micro specimen fabrication method and test process.
- Specific points that must be addressed include strategies that will be employed to minimize coupon damage during fabrication and testing and any bias introduced by such a small specimen.

(2) Facilities Required

(2-1) List the facilities, coupon processing aids and equipment to perform all the work described and the approach that will be taken to meet the required schedule.

- List and identify the equipment to be used. A statement that the offeror has all the required equipment and facilities available to them, for the performance of this effort.
-

(3) Corporate Experience

(3-1) Explain if the contractor has ever fabricated and tested propellant samples as small as 0.01 inch thick

- If these coupons have been tested, were they extracted from a propellant sample that has a mechanical and chemical property gradient? Were multiple layers of materials (i.e. inhibitor, liner and propellant) successfully separated and analyzed?

- Does the contractor have an established procedure for fabrication, handling and testing the coupons? In the case of chemical analysis this must include techniques to perform an assay of the species listed in (1-1) from sub-gram samples of propellant.
- If testing has been performed in the past, did the results meet expectations?
- (3-2) This area should focus on company experience, not individual experience
 - List contract number, point of contact for same or similar work performed
 - List any publications documenting the process
 - Corporate experience on related efforts
- (4) Management/Organization
 - (4-1) Planned organization to respond to and manage work efforts, including:
 - Work plan and organizational structure to manage the work to ensure a smooth operation.
 - Plan to adequately track work in process to ensure contracted schedules, with enough flexibility to manage several on-going efforts.
 - Staffing plan to reflect adequate levels to conduct the required work efforts
- (5) Quality Assurance
 - (5-1) Approach to in-process quality control and the detail inspection plan indicating an understanding of the SOW

2. Price – The offeror shall provide an executed copy of the RFQ with all pricing appropriately filled-in and all representations/certifications completed.

EVALUATION FACTORS FOR AWARD

1. Since an Offeror must comply with the instructions contained in the Instructions to Offerors it behooves an offeror to read carefully the instructions as the Contracting Officer may eliminate an Offeror from further consideration for failure to comply with the instructions. In deciding which of the offerors, complying with the instructions, is the best overall value the government will consider the following factors, listed in order of importance:

- 1.) **Technical Proposal –**
 - Technical Comprehension**
 - Facilities**
 - Corporate Experience**
 - Management/Organization**
 - Quality Assurance**

An Offeror is required to submit a technical proposal as detailed in Instructions to Offerors and Evaluation Factors for Award

- 2.) **Price - Price will be evaluated by the Contracts personnel to determine fair and reasonableness through the most appropriate method available.**

2. The government shall award a purchase order resulting from this quotation to the responsible offeror whose submission, complying with the instructions and conforming to the solicitation, represents the best overall value on the basis of an integrated assessment of the evaluation factors for award. Once all evaluations are completed the government will make a series of comparisons among the offerors by comparing the technical proposal evaluation ratings and the proposed prices. From these comparisons the government will determine the offeror who offers the best value to the government. This is a subjective evaluation process.

CLAUSES INCORPORATED BY REFERENCE

52.245-4	Government-Furnished Property (Short Form)	JUN 2003
252.204-7003	Control Of Government Personnel Work Product	APR 1992

CLAUSES INCORPORATED BY FULL TEXT

252.223-7002 SAFETY PRECAUTIONS FOR AMMUNITION AND EXPLOSIVES (MAY 1994)

(a) Definition. "Ammunition and explosives," as used in this clause --

(1) Means liquid and solid propellants and explosives, pyrotechnics, incendiaries and smokes in the following forms:

(i) Bulk,

(ii) Ammunition;

(iii) Rockets;

(iv) Missiles;

(v) Warheads;

(vi) Devices; and

(vii) Components of (i) through (vi), except for wholly inert items.

(2) This definition does not include the following, unless the Contractor is using or incorporating these materials for initiation, propulsion, or detonation as an integral or component part of an explosive, an ammunition or explosive end item, or of a weapon system --

(i) Inert components containing no explosives, propellants, or pyrotechnics;

(ii) Flammable liquids;

(iii) Acids;

(iv) Powdered metals; or

(v) Oxidizers;

(vi) Other materials having fire or explosive characteristics.

(b) Safety requirements.

(1) The Contractor shall comply with the requirements of the DoD Contractors' Safety Manual for Ammunition and Explosives, DoD 4145.26-M hereafter referred to as "the manual", in effect on the date of the solicitation for this contract. The Contractor shall also comply with any other additional requirements included in the schedule of this contract.

(2) The Contractor shall allow the Government access to the Contractor's facilities, personnel, and safety program documentation. The Contractor shall allow authorized Government representatives to evaluate safety programs, implementation, and facilities.

(c) Noncompliance with the manual.

(1) If the Contracting Officer notifies the Contractor of any noncompliance with the manual or schedule provisions, the Contractor shall take immediate steps to correct the noncompliance. The Contractor is not entitled to reimbursement of costs incurred to correct noncompliances unless such reimbursement is specified elsewhere in the contract.

(2) The Contractor has 30 days from the date of notification by the Contracting Officer to correct the noncompliance and inform the Contracting Officer of the actions taken. The Contracting Officer may direct a different time period for the correction of noncompliances.

(3) If the Contractor refuses or fails to correct noncompliances within the time period specified by the Contracting Officer, the Government has the right to direct the Contractor to cease performance on all or part of this contract. The Contractor shall not resume performance until the Contracting Officer is satisfied that the corrective action was effective and the Contracting Officer so informs the Contractor.

(4) The Contracting Officer may remove Government personnel at any time the Contractor is in noncompliance with any safety requirement of this clause.

(5) If the direction to cease work or the removal of Government personnel results in increased costs to the Contractor, the Contractor shall not be entitled to an adjustment in the contract price or a change in the delivery or performance schedule unless the Contracting Officer later determines that the Contractor had in fact complied with the manual or schedule provisions. If the Contractor is entitled to an equitable adjustment, it shall be made in accordance with the Changes clause of this contract.

(d) Mishaps. If a mishap involving ammunition or explosives occurs, the Contractor shall --

(1) Notify the Contracting Officer immediately;

(2) Conduct an investigation in accordance with other provisions of this contract or as required by the Contracting Officer; and

(3) Submit a written report to the Contracting Officer.

(e) Contractor responsibility for safety. (1) Nothing in this clause, nor any Government action or failure to act in surveillance of this contract, shall relieve the Contractor of its responsibility for the safety of --

(i) The Contractor's personnel and property;

(ii) The Government's personnel and property; or

(iii) The general public.

(2) Nothing in this clause shall relieve the Contractor of its responsibility for complying with applicable Federal, State, and local laws, ordinances, codes, and regulations (including those requiring the obtaining of licenses and permits) in connection with the performance of this contract.

(f) Contractor responsibility for contract performance. (1) Neither the number or frequency of inspections performed by the Government, nor the degree of surveillance exercised by the Government, relieve the Contractor of its responsibility for contract performance.

(2) If the Government acts or fails to act in surveillance or enforcement of the safety requirements of this contract, this does not impose or add to any liability of the Government.

(g) Subcontractors. (1) The Contractor shall insert this clause, including this paragraph (g), in every subcontract that involves ammunition or explosives.

(i) The clause shall include a provision allowing authorized Government safety representatives to evaluate subcontractor safety programs, implementation, and facilities as the Government determines necessary.

(ii) Note: The Government Contracting Officer or authorized representative shall notify the prime Contractor of all findings concerning subcontractor safety and compliance with the manual. The Contracting Officer or authorized representative may furnish copies to the subcontractor. The Contractor in turn shall communicate directly with the subcontractor, substituting its name for references to "the Government". The Contractor and higher tier subcontractors shall also include provisions to allow direction to cease performance of the subcontract if a serious uncorrected or recurring safety deficiency potentially causes an imminent hazard to DoD personnel, property, or contract performance.

(2) The Contractor agrees to ensure that the subcontractor complies with all contract safety requirements. The Contractor will determine the best method for verifying the adequacy of the subcontractor's compliance.

(3) The Contractor shall ensure that the subcontractor understands and agrees to the Government's right to access to the subcontractor's facilities, personnel, and safety program documentation to perform safety surveys. The Government performs these safety surveys of subcontractor facilities solely to prevent the occurrence of any mishap which would endanger the safety of DoD personnel or otherwise adversely impact upon the Government's contractual interests.

(4) The Contractor shall notify the Contracting Officer or authorized representative before issuing any subcontract when it involves ammunition or explosives. If the proposed subcontract represents a change in the place of performance, the Contractor shall request approval for such change in accordance with the clause of this contract entitled "Change in Place of Performance - Ammunition and Explosives".

(End of clause)

252.223-7003 CHANGE IN PLACE OF PERFORMANCE - AMMUNITION AND EXPLOSIVES (DEC 1991)

(a) The Offeror shall identify, in the "Place of Performance" provision of this solicitation, the place of performance of all ammunition and explosives work covered by the Safety Precautions for Ammunition and Explosives clause of this solicitation. Failure to furnish this information with the offer may result in rejection of the offer.

(b) The Offeror agrees not to change the place of performance of any portion of the offer covered by the Safety Precautions for Ammunition and Explosives clause contained in this solicitation after the date set for receipt of offers without the written approval of the Contracting Officer. The Contracting Officer shall grant approval only if there is enough time for the Government to perform the necessary safety reviews on the new proposed place of performance.

(c) If a contract results from this offer, the Contractor agrees not to change any place of performance previously cited without the advance written approval of the Contracting Officer.

(End of clause)