

# TERMS AND CONDITIONS

## SOLICITATION

<b>SOLICITATION:</b> NNM13471193 <b>FIRM FIXED PRICE (FFP)</b>	<b>CONTRACT ADMINISTRATOR:</b> <b>HEATH BROCK</b> <b>EMAIL DAVID.H.BROCK@NASA.GOV</b>
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### I. DELIVERY AND PERFORMANCE REQUIREMENTS.

- ADDITIONAL ITEM DESCRIPTION, SPECIFICATION, OR STATEMENT OF WORK: **pp (13-17)**
- CONFIRMATION OF VERBAL/E-MAIL/FAXED ORDER – DO NOT DUPLICATE
- THIS ORDER IS A RATED ORDER UNDER DPAS (15 CFR 700). THE RATING FOR THIS ORDER IS DO-C9
- DELIVERY DATE: TBD
- PERIOD OF PERFORMANCE:
- NO PARTIAL PAYMENT/ DELIVERY ALLOWED. **DO NOT SUBMIT INVOICE UNTIL COMPLETION OF ORDER. ALL ITEMS TO BE SHIPPED AT THE SAME TIME \***
- PARTIAL DELIVERY/PAYMENT ACCEPTABLE.\*

**\*The contractor shall be paid upon acceptance of all deliverables described in the delivery schedule. Acceptance as used herein is defined as the successful completion of required tasks and deliverable for the period covered\***

### II. INVOICING AND PAYMENT INFORMATION.

Invoices shall be submitted to:

NASA Shared Services Center (NSSC)  
Financial Management Division (FMD) – Accounts Payable  
Bldg 1111, C. Road  
Stennis Space Center, MS 39529  
Email: NSSC-AccountsPayable@nasa.gov  
Fax: 866-209-5415  
Fed Tax Exempt #: 63-0422638

TAX IDENTIFICATION NUMBER (TIN) MUST BE PROVIDED WITH THE INVOICE FOR PAYMENT

### III. APPLICABLE COMMERCIAL ITEM SOLICITATION CLAUSES:

This order is for a commercial item subject to the terms and conditions of FAR 52.212-4, Contract Terms and Conditions – Commercial Items (FEB 2012), incorporated by reference; FAR 52.212-5, Contract Terms and Conditions Required to Implement Statutes and Executive Orders, Commercial Items (Jan 2013) attached to this order; and any additional terms and conditions checked below or included as a Center specific requirements as addenda to 52.212-4

#### **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): <http://procurement.nasa.gov/far/>

**A. FEDERAL ACQUISITION REGULATION (48CFR CHAPTER 1) CLAUSES**

- 52.204-7 Central Contractor Registration (Apr 2008)
- 52.209-2 Prohibition on Contracting with Inverted Domestic Corporations-Representation. (May 2011)
- 52.211-6 Brand Name Or Equal (Aug 1999)
- 52.212-1 Instructions to Offerors-Commercial Items (Feb 2012)
- 52.225-25 Prohibition on Contracting with Entities Engaging in Sanctioned Activities Relating to Iran—Representation and Certification. (Nov 2011)
- 52.247-32 F.O.B. Origin (Feb 2006)
- 52.247-34 F.O.B. Destination (Nov 1991)

**B. NASA FEDERAL ACQUISITION REGULATION SUPPLEMENT (48CFR CHAPTER 18) CLAUSES INCORPORATED BY REFERENCE**

- 1852.225-70 Export Licenses (Feb 2000)
- 1852.227-86 Commercial Computer Software-Licensing (Dec 1987)

**C. NASA FEDERAL ACQUISITION REGULATION SUPPLEMENT (NFS) CLAUSES IN FULL TEXT AND APPLICABLE FEDERAL ACQUISITION REGULATION (FAR) CLAUSES IN FULL TEXT**

- 1852.209-73 REPRESENTATION BY OFFERORS THAT THEY ARE NOT THE ASSOCIATION OF COMMUNITY ORGANIZATIONS FOR REFORM NOW (ACORN) OR A SUBSIDIARY OF ACORN.(DEVIATION FEB 2012)
  - (a) In accordance with section 534 of The Consolidated and Further Continuing Appropriation Act of 2012 (Pub. L.112-55) none of the funds made available by the Act may be distributed to the Association of Community Organizations for Reform Now (ACORN) or its subsidiaries.
  - (b) The offeror represents, by submission of its offer, that it is not the Association of Community Organizations for Reform Now (ACORN) or a subsidiary thereof.

(End of provision)

- 1852.209-75 REPRESENTATION BY CORPORATIONS REGARDING AN UNPAID DELINQUENT TAX LIABILITY OR A FELONY CONVICTION UNDER ANY FEDERAL LAW. (DEVIATION FEB 2012)

In accordance with sections 544 and 543 of The Consolidated and Further Continuing Appropriation Act of 2012 (Pub. L.112-55), none of the funds made available by that Act may be used to enter into a contract with any corporation that-

- (1) Has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability, where the awarding agency is aware of the unpaid tax liability, unless the agency has considered suspension or debarment of the corporation and made a determination that this action is not necessary to protect the interests of the Government; or
- (2) Was convicted (or had an officer or agent of such corporation acting on behalf of the corporation convicted) of a felony criminal violation under any Federal law within the preceding 24 months, where the awarding agency is aware of the conviction, unless the agency has considered suspension or debarment of the corporation and made a determination that this action is not necessary to protect the interests of the Government.

(a) The offeror represents that –

- (1) It is  is not  a corporation that has had any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability; and
- (2) It is  is not  a corporation that was convicted, or had an officer or agent acting on behalf of the corporation convicted, of a felony criminal violation under a Federal law within the preceding 24 months.

(End of provision)

**1852.215-84 OMBUDSMAN (NOV 2011)**

(a) An ombudsman has been appointed to hear and facilitate the resolution of concerns from offerors, potential offerors, and contractors during the preaward and postaward phases of this acquisition. When requested, the ombudsman will maintain strict confidentiality as to the source of the concern. The existence of the ombudsman is not to diminish the authority of the contracting officer, the Source Evaluation Board, or the selection official. Further, the ombudsman does not participate in the evaluation of proposals, the source selection process, or the adjudication of formal contract disputes. Therefore, before consulting with an ombudsman, interested parties must first address their concerns, issues, disagreements, and/or recommendations to the contracting officer for resolution.

(b) If resolution cannot be made by the contracting officer, interested parties may contact the installation ombudsman, whose name, address, telephone number, facsimile number, and e-mail address may be found at: [http://prod.nais.nasa.gov/pub/pub\\_library/Omb.html](http://prod.nais.nasa.gov/pub/pub_library/Omb.html). Concerns, issues, disagreements, and recommendations which cannot be resolved at the installation may be referred to the Agency ombudsman identified at the above URL. Please do not contact the ombudsman to request copies of the solicitation, verify offer due date, or clarify technical requirements. Such inquiries shall be directed to the Contracting Officer or as specified elsewhere in this document.

(End of Clause)

**1852.237-73 RELEASE OF SENSITIVE INFORMATION (JUNE 2005)**

(a) As used in this clause, “sensitive information” refers to information, not currently in the public domain, that the Contractor has developed at private expense, that may embody trade secrets or commercial or financial information, and that may be sensitive or privileged.

(b) In accomplishing management activities and administrative functions, NASA relies heavily on the support of various service providers. To support NASA activities and functions, these service providers, as well as their subcontractors and their individual employees, may need access to sensitive information submitted by the Contractor under this contract. By submitting this proposal or performing this contract, the Contractor agrees that NASA may release to its service providers, their subcontractors, and their individual employees, sensitive information submitted during the course of this procurement, subject to the enumerated protections mandated by the clause at 1852.237-72, Access to Sensitive Information.

(c)(1) The Contractor shall identify any sensitive information submitted in support of this proposal or in performing this contract. For purposes of identifying sensitive information, the Contractor may, in addition to any other notice or legend otherwise required, use a notice similar to the following:

Mark the title page with the following legend:

This proposal or document includes sensitive information that NASA shall not disclose outside the Agency and its service providers that support management activities and administrative functions. To gain access to this sensitive information, a service provider’s contract must contain the clause at NFS 1852.237-72, Access to Sensitive Information. Consistent with this clause, the service provider shall not duplicate, use, or disclose the information in whole or in part for any purpose other than to perform the services specified in its contract. This

restriction does not limit the Government's right to use this information if it is obtained from another source without restriction. The information subject to this restriction is contained in pages : N/A

Mark each page of sensitive information the Contractor wishes to restrict with the following legend:

Use or disclosure of sensitive information contained on this page is subject to the restriction on the title page of this proposal or document.

(2) The Contracting Officer shall evaluate the facts supporting any claim that particular information is "sensitive." This evaluation shall consider the time and resources necessary to protect the information in accordance with the detailed safeguards mandated by the clause at 1852.237-72, Access to Sensitive Information. However, unless the Contracting Officer decides, with the advice of Center counsel, that reasonable grounds exist to challenge the Contractor's claim that particular information is sensitive, NASA and its service providers and their employees shall comply with all of the safeguards contained in paragraph (d) of this clause.

(d) To receive access to sensitive information needed to assist NASA in accomplishing management activities and administrative functions, the service provider must be operating under a contract that contains the clause at 1852.237-72, Access to Sensitive Information. This clause obligates the service provider to do the following:

- (1) Comply with all specified procedures and obligations, including the Organizational Conflicts of Interest Avoidance Plan, which the contract has incorporated as a compliance document.
  - (2) Utilize any sensitive information coming into its possession only for the purpose of performing the services specified in its contract.
  - (3) Safeguard sensitive information coming into its possession from unauthorized use and disclosure.
  - (4) Allow access to sensitive information only to those employees that need it to perform services under its contract.
  - (5) Preclude access and disclosure of sensitive information to persons and entities outside of the service provider's organization.
  - (6) Train employees who may require access to sensitive information about their obligations to utilize it only to perform the services specified in its contract and to safeguard it from unauthorized use and disclosure.
  - (7) Obtain a written affirmation from each employee that he/she has received and will comply with training on the authorized uses and mandatory protections of sensitive information needed in performing this contract.
  - (8) Administer a monitoring process to ensure that employees comply with all reasonable security procedures, report any breaches to the Contracting Officer, and implement any necessary corrective actions.
- (e) When the service provider will have primary responsibility for operating an information technology system for NASA that contains sensitive information, the service provider's contract shall include the clause at 1852.204-76, Security Requirements for Unclassified Information Technology Resources. The Security Requirements clause requires the service provider to implement an Information Technology Security Plan to protect information processed, stored, or transmitted from unauthorized access, alteration, disclosure, or use. Service provider personnel requiring privileged access or limited privileged access to these information technology systems are subject to screening using the standard National Agency Check (NAC) forms appropriate to the level of risk for adverse impact to NASA missions. The Contracting Officer may allow the service provider to conduct its own screening, provided the service provider employs substantially equivalent screening procedures.
- (f) This clause does not affect NASA's responsibilities under the Freedom of Information Act.
- (g) The Contractor shall insert this clause, including this paragraph (g) , suitably modified to reflect the relationship of the parties, in all subcontracts that may require the furnishing of sensitive information.

(End of Clause)

#### **52.212-2 EVALUATION-COMMERCIAL ITEMS (JAN 1999)**

(a) The Government will award a contract resulting from this solicitation to the responsible offeror whose offer conforming to the solicitation will be most advantageous to the Government, price and other factors considered. The following factors shall be used to evaluate offers:

1. Technically acceptable
2. Lowest price

(b) A written notice of award or acceptance of an offer, mailed or otherwise furnished to the successful offeror within the time for acceptance specified in the offer, shall result in a binding contract without further action by either party. Before the offer's specified expiration time, the Government may accept an offer (or part of an offer), whether or not there are negotiations after its receipt, unless a written notice of withdrawal is received before award.

(End of provision)

**52.212-3 OFFEROR REPRESENTATIONS AND CERTIFICATIONS-COMMERCIAL ITEMS (Dec 2012)**  
**INCORPORATED BY REFERENCE WITH IT'S ALTERNATE I (Nov 2012)**

Offeror Representations and Certifications, as completed by the Contractor are hereby Incorporated in their entirety by reference, with the same force and effect as if they were given in Full text.

(End of provision)

**52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS-COMMERCIAL ITEMS (Jan 2013)**

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses, which are incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

(1) 52.222-50, Combating Trafficking in Persons (Feb 2009) 22 U.S.C 7104(g).

Alternate I (Aug 2007) of [52.222-50 \(22 U.S.C. 7104\(g\)\)](#).

(2) 52.233-3, Protest After Award (AUG 1996) (31 U.S.C. 3553).

(3) 52.233-4, Applicable Law for Breach of Contract Claim (OCT 2004) (Pub. L. 108-77, 108-78)

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

(1) 52.203-6, Restrictions on Subcontractor Sales to the Government (Sep 2006), with Alternate I (Oct 1995) (41 U.S.C. 253g and 10 U.S.C. 2402).

(2) 52.203-13, Contract Code of Business Ethics and Conduct (Apr 2010) (Pub. L. 110-252, Title VI, Chapter 1 (41 U.S.C. 251 Note))

(3) [52.203-15](#), Whistleblower Protections Under the American Recovery and Reinvestment Act of 2009(JUNE 2010) (Section 1553 of Pub. L. 111-5).

(4) 52.204-10, Reporting Executive Compensation and First-Tier Subcontract Awards (Aug 2012) (Pub. L. 109-282) ([31 U.S.C. 6101 note](#)).

(5) [52.204-11](#), American Recovery and Reinvestment Act—Reporting Requirements (JUL 2010) (Pub. L. 111-5).

(6) 52.209-6, Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (DEC 2010) ([31 U.S.C. 6101 note](#)).

- (7) 52. 209-9, Updates of Publicly Available Information Regarding Responsibility Matters (FEB 2012) (41 U.S.C. 2313).
- (8) 52.209-10, Prohibition on Contracting with Inverted Domestic Corporations (MAY 2012) (section 740 of Division C of Pub. L. 111-117, section 743 of Division D of Pub. L. 111-8, and section 745 of Division D of Pub. L. 110-161)
- (9) [52.219-3](#), Notice of Total HUBZone Set-Aside (Nov 2011) ([15 U.S.C. 657a](#)).
- (10) [52.219-4](#), Notice of Price Evaluation Preference for HUBZone Small Business Concerns (Jan 2011) (if the offeror elects to waive the preference, it shall so indicate in its offer) ([15 U.S.C. 657a](#)).
- (11) [Reserved]
- (12) (i) [52.219-6](#), Notice of Total Small Business Set-Aside (Nov 2011) ([15 U.S.C. 644](#)).
- (ii) Alternate I (Nov 2011) of [52.219-6](#).
- (iii) Alternate II (Nov 2011) of [52.219-6](#).
- (13)(i) [52.219-7](#), Notice of Partial Small Business Set-Aside (June 2003) ([15 U.S.C. 644](#)).
- (ii) Alternate I (Oct 1995) of 52.219-7.
- (iii) Alternate II (Mar 2004) of 52.219-7.
- (14) [52.219-8](#), Utilization of Small Business Concerns (Jan 2011) ([15 U.S.C. 637\(d\)\(2\)](#) and (3)).
- (15)(i) [52.219-9](#), Small Business Subcontracting Plan (Jan 2011) ([15 U.S.C. 637\(d\)\(4\)](#)).
- (ii) Alternate I (Oct 2001) of [52.219-9](#).
- (iii) Alternate II (Oct 2001) of [52.219-9](#).
- (iv) Alternate III (Jul 2010) of 52.219-9
- (16) 52.219-13, Notice of Set-Aside of Orders (Nov 2011) (15 U.S.C. 644 (r))
- (17) [52.219-14](#), Limitations on Subcontracting (Nov 2011) ([15 U.S.C. 637\(a\)\(14\)](#)).
- (18) [52.219-16](#), Liquidated Damages—Subcontracting Plan (Jan 1999) ([15 U.S.C. 637\(d\)\(4\)\(F\)\(i\)](#)).
- (19) (i) [52.219-23](#), Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns (OCT 2008) ([10 U.S.C. 2323](#)) (if the offeror elects to waive the adjustment, it shall so indicate in its offer).
- (ii) Alternate I (June 2003) of [52.219-23](#)
- (20) [52.219-25](#), Small Disadvantaged Business Participation Program—Disadvantaged Status and Reporting (Dec 2010) (Pub. L. 103-355, section 7102, and [10 U.S.C. 2323](#)).
- (21) [52.219-26](#), Small Disadvantaged Business Participation Program— Incentive Subcontracting (Oct 2000) (Pub. L. 103-355, section 7102, and [10 U.S.C. 2323](#)).
- (22) [52.219-27](#), Notice of Service-Disabled Veteran-Owned Small Business Set-Aside (Nov 2011) ([15 U.S.C. 657 f](#)).
- (23) [52.219-28](#), Post Award Small Business Program Re-representation (APR 2012) ([15 U.S.C. 632\(a\)\(2\)](#)).
- (24) 52.219-29 Notice of Set-Aside for Economically Disadvantage Women-Owned Small Business (EDWOSB) Concerns (Apr 2012)
- (25) 52.219-30, Notice of Set-Aside for Women-Owned Small Business (WOSB) Concerns Eligible Under the Woman-Owned Small Business Program (Apr 2012)
- (26) [52.222-3](#), Convict Labor (June 2003) (E.O. 11755).
- (27) [52.222-19](#), Child Labor—Cooperation with Authorities and Remedies (MAR 2012) (E.O. 13126).
- (28) [52.222-21](#), Prohibition of Segregated Facilities (Feb 1999).
- (29) [52.222-26](#), Equal Opportunity (Mar 2007) (E.O. 11246).
- (30) [52.222-35](#), Equal Opportunity for Veterans (Sept 2010) ([38 U.S.C. 4212](#)).
- (31) [52.222-36](#), Affirmative Action for Workers with Disabilities (Oct 2010) ([29 U.S.C. 793](#)).
- (32) [52.222-37](#), Employment Reports on Veterans, (Sept 2010) ([38 U.S.C. 4212](#)).
- (33) 52.222-40 Notification of Employee Rights Under the National Labor Relations Act (Dec 2010) (E.O. 13496).
- (34) [52.222-54](#), Employment Eligibility Verification (JUL 2012). (Executive Order 12989). (Not applicable to the acquisition of commercially available off-the-shelf items or certain other types of commercial items as prescribed in [22.1803](#).)
- (35) [52.223-9](#), Estimate of Percentage of Recovered Material Content for EPA–Designated Items (May 2008)) ([42 U.S.C. 6962\(c\)\(3\)\(A\)\(ii\)](#)). (Not applicable to the acquisition of commercially available off-the-shelf items.)
- (ii) Alternate I (May 2008) of [52.223-9](#) ([42 U.S.C. 6962\(i\)\(2\)\(C\)](#)). (Not applicable to the acquisition of commercially available off-the-shelf items.)
- (36) [52.223-15](#), Energy Efficiency in Energy-Consuming Products (DEC 2007) ([42 U.S.C. 8259b](#)).
- (37) (i) [52.223-16](#), IEEE 1680 Standard for the Environmental Assessment of Personal Computer Products (DEC 2007) (E.O. 13423).

- (ii) Alternate I (DEC 2007) of [52.223-16](#).
- (38) [52.223-18](#), Encouraging Contractor Policies to Ban Text Messaging While Driving (Aug 2011) (E.O. 13513).
- (39) [52.225-1](#), Buy American Act—Supplies (Feb 2009) ([41 U.S.C. 10a-10d](#))
- (40) [52.225-3](#), Buy American Act—Free Trade Agreements—Israeli Trade Act (Nov 2012) ([41 U.S.C. 10a-10d](#), [19 U.S.C. 3301](#) note, [19 U.S.C. 2112](#) note, [19 U.S.C. 3805](#) note, Pub. L. 108-77, 108-78, 108-286, 108-302, 109-53, 109-169, 109-283, and 110-138).
- (ii) Alternate I (Mar 2012) of [52.225-3](#)
- (iii) Alternate II (Mar 2012) of [52.225-3](#)
- (iv) Alternate III (Nov 2012) of [52.225-3](#)
- (41) [52.225-5](#), Trade Agreements (Nov 2012) ([19 U.S.C. 2501](#), *et seq.*, [19 U.S.C. 3301](#) note).
- (42) [52.225-13](#), Restrictions on Certain Foreign Purchases (June 2008) (E.O.'s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).
- (43) [52.226-4](#), Notice of Disaster or Emergency Area Set-Aside (Nov 2007) ([42 U.S.C. 5150](#)). (WON'T USE)
- (44) [52.226-5](#), Restrictions on Subcontracting Outside Disaster or Emergency Area (Nov 2007) ([42 U.S.C. 5150](#)).
- (45) [52.232-29](#), Terms for Financing of Purchases of Commercial Items (Feb 2002) ([41 U.S.C. 255\(f\)](#), [10 U.S.C. 2307\(f\)](#)).
- (46) [52.232-30](#), Installment Payments for Commercial Items (Oct 1995) ([41 U.S.C. 255\(f\)](#), [10 U.S.C. 2307\(f\)](#)).
- (47) [52.232-33](#), Payment by Electronic Funds Transfer—Central Contractor Registration (Oct 2003) ([31 U.S.C. 3332](#)).
- (48) [52.232-34](#), Payment by Electronic Funds Transfer—Other than Central Contractor Registration (May 1999) ([31 U.S.C. 3332](#)).
- (49) [52.232-36](#), Payment by Third Party (FEB 2010) ([31 U.S.C. 3332](#)).
- (50) [52.239-1](#), Privacy or Security Safeguards (Aug 1996) ([5 U.S.C. 552a](#)).
- (51)(i) [52.247-64](#), Preference for Privately Owned U.S.-Flag Commercial Vessels (Feb 2006) ([46 U.S.C. Appx. 1241\(b\)](#) and [10 U.S.C. 2631](#)).
- (ii) Alternate I (Apr 2003) of [52.247-64](#).

(c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

- (1) [52.222-41](#), Service Contract Act of 1965, as Amended (Nov 2007) ([41 U.S.C. 351](#), *et seq.*).
- (2) [52.222-42](#), Statement of Equivalent Rates for Federal Hires (May 1989) ([29 U.S.C. 206](#) and [41 U.S.C. 351](#), *et seq.*).
- (3) [52.222-43](#), Fair Labor Standards Act and Service Contract Act-Price Adjustment (Multiple Year and Option Contracts) (SEP 2009) ([29 U.S.C. 206](#) and [41 U.S.C. 351](#), *et seq.*).
- (4) [52.222-44](#), Fair Labor Standards Act and Service Contract Act-Price Adjustment (SEP 2009) ([29 U.S.C. 206](#) and [41 U.S.C. 351](#), *et seq.*).
- (5) [52.222-51](#), Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (Nov 2007) ([41 U.S.C. 351](#), *et seq.*).
- (6) [52.222-53](#), Exemption from Application of the Service Contract Act to Contracts for Certain Services--Requirements (Feb 2009) ([41 U.S.C. 351](#), *et seq.*).
- (7) [52.222-17](#), Nondisplacement of Qualified Workers (JAN 2013) (E.O.13495).
- (8) [52.226-6](#), Promoting Excess Food Donation to Nonprofit Organizations (Mar 2009) (Pub. L. 110-247).
- (9) [52.237-11](#), Accepting and Dispensing of \$1 Coin (Sept 2008) ([31 U.S.C. 5112\(p\)\(1\)](#)).

(d) *Comptroller General Examination of Record*. The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at [52.215-2](#), Audit and Records—Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made

available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e)(1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c), and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in paragraphs (i) through (vii) of this paragraph in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause—

(i) 52.203-13, Contractor Code of Business Ethics and Conduct (Apr 2010) (Pub. L. 110-252, Title VI, Chapter 1 (41 U.S.C. 251 note)).

(ii) 52.219-8, Utilization of Small Business Concerns (DEC 2010) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$500,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(iii) 52.222-17, Nondisplacement of Qualified Workers (JAN 2013) (E.O.13495).

(iv) [52.222-26](#), Equal Opportunity (Mar 2007) (E.O. 11246).

(v) [52.222-35](#), Equal Opportunity for Veterans, (Sept 2010) ([38 U.S.C. 4212](#)).

(vi) [52.222-36](#), Affirmative Action for Workers with Disabilities (Oct 2010) ([29 U.S.C. 793](#)).

(vii) 52.222-40 Notification of Employee Rights Under the National Labor Relations Act (Dec 2010) (E.O.13496). Flow down required in accordance with paragraph (f) of FAR clause [52.222-40](#).

(viii) [52.222-41](#), Service Contract Act of 1965 (Nov 2007) ([41 U.S.C. 351](#), *et seq.*).

(ix) [52.222-50](#), Combating Trafficking in Persons (Feb 2009) ([22 U.S.C. 7104\(g\)](#)).

\_\_\_ Alternate I (Aug 2007) of [52.222-50](#) ([22 U.S.C. 7104\(g\)](#)).

(x) [52.222-51](#), Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment-Requirements (Nov 2007) ([41 U.S.C. 351](#), *et seq.*).

(xi) [52.222-53](#), Exemption from Application of the Service Contract Act to Contracts for Certain Services-Requirements (Feb 2009) ([41 U.S.C. 351](#), *et seq.*).

(xii) [52.222-54](#), Employment Eligibility Verification (Jul 2012).

(xiii) [52.226-6](#), Promoting Excess Food Donation to Nonprofit Organizations (Mar 2009) (Pub. L. 110-247). Flow down required in accordance with paragraph (e) of FAR clause [52.226-6](#).

(xiv) [52.247-64](#), Preference for Privately Owned U.S.-Flag Commercial Vessels (Feb 2006)

(46 U.S.C. [Appx. 1241\(b\)](#) and [10 U.S.C. 2631](#)). Flow down required in accordance with paragraph (d) of FAR clause [52.247-64](#).

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

(End of Clause)

**52.219-1 SMALL BUSINESS PROGRAM REPRESENTATIONS. (APR 2012) - ALTERNATE I (APR 2011)**

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is [*insert NAICS code*].

(2) The small business size standard is [*insert size standard*].

(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) Women-owned small business (WOSB) concern eligible under the WOSB Program. *(Complete only if the offeror represented itself as a women-owned small business concern in paragraph (b)(3) of this provision.)* The offeror represents as part of its offer that-

(i) It [ ] is, [ ] is not a WOSB concern eligible under the WOSB Program, has provided all the required documents to the WOSB Repository, and no change in circumstances or adverse decisions have been issued that affects its eligibility; and

(ii) It [ ] is, [ ] is not a joint venture that complies with the requirements of 13 CFR part 127, and the representation in paragraph (b)(4)(i) of this provision is accurate for each WOSB concern eligible under the WOSB Program participating in the joint venture. [The offeror shall enter the name or names of the WOSB concern eligible under the WOSB Program and other small businesses that are participating in the joint venture: ----- --.] Each WOSB concern eligible under the WOSB Program participating in the joint venture shall submit a separate signed copy of the WOSB representation.

(5) Economically disadvantaged women-owned small business (EDWOSB) concern. *(Complete only if the offeror represented itself as a women-owned small business concern eligible under the WOSB Program in (b)(4) of this provision.)* The offeror represents as part of its offer that-

(i) It [ ] is, [ ] is not an EDWOSB concern eligible under the WOSB Program, has provided all the required documents to the WOSB Repository, and no change in circumstances or adverse decisions have been issued that affects its eligibility; and

(ii) It [ ] is, [ ] is not a joint venture that complies with the requirements of 13 CFR part 127, and the representation in paragraph (b)(5)(i) of this provision is accurate for each EDWOSB concern participating in the joint venture. [The offeror shall enter the name or names of the EDWOSB concern and other small businesses that are participating in the joint venture: -----.] Each EDWOSB concern participating in the joint venture shall submit a separate signed copy of the EDWOSB representation.

(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 it [ ] is, [ ] is not a veteran-owned small business concern.

(7) *(Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (b)(6) of this provision.)* The offeror represents as part of its offer that it [ ] is, [ ] is not a service-disabled veteran-owned small business concern.

(8) *(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 changes in ownership and control, principal office, or HUBZone employee percentage have occurred since it was certified in accordance with 13 CFR Part 126; and

(ii) It [ ] is, [ ] is not a HUBZone joint venture that complies with the requirements of 13 CFR Part 126, and the representation in paragraph (b)(8)(i) of this provision is accurate for each HUBZone small business concern participating in the HUBZone joint venture. [The offeror shall enter the names of each of the HUBZone small business concerns participating in the HUBZone joint venture: .] Each HUBZone small business concern participating in the HUBZone joint venture shall submit a separate signed copy of the HUBZone representation.

(9) (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 -

"Economically disadvantaged women-owned small business (EDWOSB) concern" means a small business concern that is at least 51 percent directly and unconditionally owned by, and the management and daily business operations of which are controlled by, one or more women who are citizens of the United States and who are economically disadvantaged in accordance with 13 CFR part 127. It automatically qualifies as a women-owned small business concern eligible under the WOSB Program.

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

"Women-owned small business (WOSB) concern eligible under the WOSB Program" (in accordance with 13 CFR part 127), means a small business concern that is at least 51 percent directly and unconditionally owned by, and the management and daily business operations of which are controlled by, one or more women who are citizens of the United States.

(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 business concern that is small, HUBZone small, small disadvantaged, service-disabled veteran-owned small, economically disadvantaged women-owned small, or women-owned small eligible under the WOSB Program in order to obtain a contract to be awarded under the preference programs established pursuant to section 8, 9, 15, 31, and 36 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)

**52.225-18 PLACE OF MANUFACTURE (SEPT 2006)**

(a) *Definitions.* As used in this clause—

“Manufactured end product” means any end product in Federal Supply Classes (FSC) 1000-9999, except—

- (1) FSC 5510, Lumber and Related Basic Wood Materials;
- (2) Federal Supply Group (FSG) 87, Agricultural Supplies;
- (3) FSG 88, Live Animals;
- (4) FSG 89, Food and Related Consumables;
- (5) FSC 9410, Crude Grades of Plant Materials;
- (6) FSC 9430, Miscellaneous Crude Animal Products, Inedible;
- (7) FSC 9440, Miscellaneous Crude Agricultural and Forestry Products;

(8) FSC 9610, Ores;

(9) FSC 9620, Minerals, Natural and Synthetic; and

(10) FSC 9630, Additive Metal Materials.

“Place of manufacture” means the place where an end product is assembled out of components, or otherwise made or processed from raw materials into the finished product that is to be provided to the Government. If a product is disassembled and reassembled, the place of reassembly is not the place of manufacture.

(b) For statistical purposes only, the offeror shall indicate whether the place of manufacture of the end products it expects to provide in response to this solicitation is predominantly—

(1)  In the United States (Check this box if the total anticipated price of offered end products manufactured in the United States exceeds the total anticipated price of offered end products manufactured outside the United States); or

(2)  Outside the United States.

(End of provision)

## Procurement Information

The following is information pertaining to a “lunar terrain” field being built at Marshall Space Flight Center (MSFC), Huntsville, AL.

## Evaluation Criteria and Justification

### *Objective*

Rocky planetary surfaces typically have features which make landing at random hazardous to the lander. Many of the hazards are physically small enough that they can't be detected from either orbit or from Earth. To avoid such hazards they must be recognized during descent. Lander velocities are high enough that there is insufficient time to relay information from the lander to Earth and then transmit guidance back to the lander. Therefore, the lander needs to be able to recognize and avoid hazards without human intervention. The technology to do this is being developed at MSFC. This work is referred to as the Hazard Avoidance Project, Mike Hannan PI.

The rocket platform being used for this project is called the Mighty Eagle ([http://www.nasa.gov/mission\\_pages/lunarquest/robotic/12-114.html](http://www.nasa.gov/mission_pages/lunarquest/robotic/12-114.html)). The current generation of hazard recognition uses an onboard stereo camera. The camera system will provide information to the lander's onboard guidance, navigation and control system to avoid large boulders and steep crater slopes. Principal testing of hazard recognition will be done between the altitudes of 10 and 30 meters. The per pixel resolution of the camera at 10 meters is estimated to be 6.5 mm. The field of view of the camera at 30 meters is approximately 20x30 meters.

The Hazard Avoidance Project must have a site to test the technology developed. It has been decided to emulate a hypothetical lunar terrain, such as seen in Figure 1. The lunar surface has two types of hazards for lander: crater slopes and boulders large enough to tip the lander.

The surface of the Moon is regolith, i.e. broken rock. The average particle size is often given as being approximately 50  $\mu\text{m}$ . Which means it forms a uniform field of view, lacking fine scale features. With respect to composition, in detail the lunar surface is substantially different from any terrestrial material. However, a good first approximation of the lunar regolith is a basaltic ash, such as is found in the Merriam Crater, north east of Flagstaff, Arizona. This site has been the source of several lunar simulants in what is known as the JSC-1 series. Other sources and materials are also reasonable approximations, given the engineering details of the Hazard Avoidance Project. The color of the lunar surface is a very uniform medium to dark grey, with only a few exceptions.

To test the hazard avoidance technology, an area shall be covered with a basaltic material fine enough that the camera can't detect the particles or their shadows. The color of the material must be a medium to dark grey. Meteor craters will be formed out of this fine-grained material. Artificial, light-weight, boulders will be made with a coating of the same material.



Figure 1. Apollo 17 Image 145-22165 The distribution of craters and boulders on the surface of the Moon is random. Much of the surface is covered with what is effectively finely powdered basalt, mean particle size 50  $\mu\text{m}$ . Note that this photograph is in color. There is little color variation over the surface of the Moon.

### ***Units***

The defining units used in this document are metric. Units common in commercial trade within the United States, such as inches and pounds, are given as a convenience to bidders. The conversion from metric to English units is in all cases only approximate, but are stated herein with sufficient precision to satisfy requirements. Tons, when used are 2000 pounds per ton.

### ***Volume/Tonnage***

Requirement: The volume of material required is 116  $\text{m}^3$  (152  $\text{yd}^3$ ).

Comment 1: Procurement is stipulated in terms of volume, not weight. Conversions from weight to volume can be done using unit or bulk density of the material (solid plus pore space).

Comment 2 : This volume equates to approximately 200 tons, assuming a bulk density (solid + pore space) of approximately 1.3 tons/yd<sup>3</sup>.

Comment 3: The area to be covered shall be 24x28 m (26x31 yards). The depth of material shall average approx. 15 cm (4 – 6”). The material depth may not be uniform across the test bed. A 20% margin above the minimum is required. The margin is to provide material to coat “boulders”, compensate for wastage and losses, and to permit making craters.

Comment 4: The conversion factor between cubic yards and cubic meters:  $1 \text{ m}^3 = 1.308\text{yd}^3$ .

### ***Access***

Comment: The site is accessible by large trucks. There is no direct access to rail within MSFC. Note that truck drivers and others must be able to satisfy the security and safety requirements of MSFC to enter the facility

### ***Moisture***

Requirement: The material shall be delivered dry, without standing or drainable water.

Comment: none

### ***Color***

Requirement: The material, when air dry, shall be visually uniform in color when viewed at a distance of 6 feet. Black is the strongly preferred color. Less desirable, but acceptable are shades of grey (down to approximately a “medium” gray). Also acceptable, but even less desirable, are distinctly green and brown tinted materials.

Comment: Colors are problematic to define for commercial purposes, even though there are several rigorous ways of characterizing color. To prevent an undue burden on vendors by stipulating formal color definitions, visual characterization of the material’s colors by NASA will be substituted.

### ***Particle size***

Requirement: After installation the material shall be 90% minus 3.4 mm (6 U.S mesh).

Requirement: After installation the material shall be 95% greater than 75  $\mu\text{m}$  (200 U.S mesh).

Comment: To avoid shadow textures the particle size must be less than half of the IFOV of a pixel in the camera at the operational altitude. This establishes an upper limit to particle size. To avoid risk due to respirable particles and problems with air and water erosion, smaller should be avoided.

## ***Composition***

Requirement: The material shall be made from a rock with one of the following compositions, ranked in order of desirability:

1. Basaltic volcanic ash.
2. Scoriaceous basalt.
3. Basalt.
4. Metabasalt. (Note, most traprock in the east of the Mississippi River is metabasalt).

Requirement: The material shall contain less than 1% by weight of weathering related constituents, such as clay or caliche.

Comments: Much of the lunar surface is a glass rich, vesiculated (rich in bubbles) material generally of basaltic mineralogy. Reproducing this provides improved fidelity across the spectrum of remote sensing techniques likely to be used by systems at or near the lunar surface. It also minimizes the probability of the material having hazardous amounts of crystalline silica minerals, such as quartz.

Scoria and volcanic ash are glass rich rocks with abundant vesicles. There are many rocks that fall within the general scope of the geologic term "basalt". The constraint is to use material falling in this range. Metabasalts (metamorphosed basalts, such as are common in traprock quarries of the eastern United States) are also acceptable but are less desirable due to their greenish coloration, which is due to minerals not present on the Moon.

## ***Sample***

Vendor shall provide, with their offer, a typical sample of the offered material for analysis by NASA. The sample shall weight no less than 0.45 kg (1 lb) and not greater than 10 kg (22 lb).

## ***Crystalline and Amorphous Silica Minerals***

Requirement: NASA may, at its discretion, reject any offer for material believed to have greater than 4% quartz + cristobalite + tridymite + amorphous SiO<sub>2</sub> combined. Values for these mineral phases will be obtained from one of the following procedures, in decreasing order of preference:

1. Certified analysis provided by the vendor or obtained by NASA at its discretion and at its cost.
2. Estimation using bulk composition (based on CIPW method)
3. Judgment of professional geologist

Comment: The listed mineral phases are recognized as carcinogens. Further, they are known to cause silicosis.

## **Documentation**

Requirement: Vendor shall document the particle size distribution, a.k.a. gradations, of the offered material using terminology and units common to the industry.

Requirement: Vendor shall document the specific source being quarried or mined for the material.

Comment: The source location can be used to find essential geologic information about the offered material. It permits a fundamental check on the composition and variability of the material.