

List of changes made to RFP NNG13360855R, Amendment 2. This list is to facilitate potential offerors review of the Amendment and changes, but is not necessarily inclusive of all changes made by the Government. Offerors are expected to review all of the formally revised documents as part of the issued amendment.

1. **Proposal Due Date:** The due date for proposals is being extended to April 28, 2014, at 3:00 p.m. EST. All other instructions regarding the proposal delivery remain unchanged.
2. **Section B.1:** Clause “SUPPLIES AND/OR SERVICES TO BE PROVIDED” is deleted and replaced with “SUPPLIES AND/OR SERVICES TO BE PROVIDED (GSFC 52.211-90) (DEC 2013).” Also, the schedule for Item #16 “Organizational Conflicts of Interest (OCI) Avoidance Plan” is changed to read “Within 30 days after contract award.”
3. **Section B.4:** Clause “ORDERING (52.216-18) (OCT 1995)” is deleted in its entirety and replaced with “RESERVED.”
4. **Section B.9:** Clause “INDEFINITE QUANTITY (52.216-22) (OCT 1995)” is deleted in its entirety and replaced with “RESERVED.”
5. **Section C.1:** Clause “SCOPE OF WORK” is deleted in its entirety and replaced with the following:  
  
“SCOPE OF WORK (GSFC 52.211-91) (AUG 2013)  
  
The Contractor shall provide the personnel, materials, and facilities, except as otherwise specified in this contract, necessary to perform the work and to furnish the items specified in the SUPPLIES AND/OR SERVICES TO BE PROVIDED clause of this contract in accordance with the Statement of Work, Attachment A, the Quality Assurance Plan incorporated in Section J as Attachment F, and task orders issued hereunder.”
6. **Section C.2:** Clause “REPORTS OF WORK” is deleted in its entirety and replaced with the following:  
  
“REPORTS OF WORK (IDIQ) (GSFC 52.235-90) (AUG 2013)  
  
(a) “Monthly progress reports. The Contractor shall submit monthly progress reports of all work accomplished covering all Task Orders active during each month of contract performance. Reports shall address the accomplishments and progress of all work performed under each Task Order for the month being reported. Each Task Order shall be a separate report. The report shall be in narrative form and brief in content. The report shall include a description of overall Task Order progress to include technical

accomplishments and status of deliverables. Also the report shall provide a quantitative description of overall progress and identify any risks or problems, which may impede performance and proposed corrective actions. Also the report shall have a discussion of the projected work activities to be performed during the next monthly reporting period.

- (b) Final Task Order Report. The Contractor shall submit a Final Task Order Report for each completed Task Order that summarizes the results of the entire Task Order, including recommendations and conclusions based on the experience and results obtained. The Final Task Order Report should include, as appropriate, tables, graphs, diagrams, curves, sketches, photographs, and drawings in sufficient detail to comprehensively explain the results achieved under the Task Order. The final report shall also include the final incurred cost for the Task Order.
- (c) Submission. The Contractor shall submit the reports required by this clause as follows:

<b>Copies</b>	<b>Report Type</b>	<b>Addressee</b>	<b>Mail Code</b>
1	M,F	Contracting Officer (CO)	210.3
1	M,F	Contracting Officer's Representative (COR)	540
1	M,F	Task Monitor	See Task Order

[M=Monthly Report, F=Final Report]

- (d) Submission dates. Monthly reports shall be submitted by the 15th day of the month following the month being reported. If the Task Order is awarded beyond the middle of a month, the first monthly report shall cover the period from award until the end of the following month. The final report for each Task Order shall be submitted within 30 days after completion of the Task Order.

(End of clause)"

7. **Section D.2:** Add clause "IDENTIFICATION AND MARKING OF GOVERNMENT EQUIPMENT (1852.245-74) (JAN 2011)" in its entirety as follows:

"(a) The Contractor shall identify all equipment to be delivered to the Government using NASA Technical Handbook (NASA-HDBK) 6003, Application of Data Matrix Identification Symbols to Aerospace Parts Using Direct Part Marking Methods/Techniques, and NASA Standard (NASA-STD) 6002, Applying Data Matrix Identification Symbols on Aerospace Parts or through the use of commercial marking techniques that: (1) are sufficiently durable to remain intact through the typical lifespan of the property: and, (2)

contain the data and data format required by the standards. This requirement includes deliverable equipment listed in the schedule and other equipment when no longer required for contract performance and NASA directs physical transfer to NASA or a third party. The Contractor shall identify property in both machine and human readable form unless the use of a machine readable-only format is approved by the NASA Industrial Property Officer.

(b) Equipment shall be marked in a location that will be human readable, without disassembly or movement of the equipment, when the items are placed in service unless such placement would have a deleterious effect on safety or on the item's operation.

(c) Concurrent with equipment delivery or transfer, the Contractor shall provide the following data in an electronic spreadsheet format:

(1) Item Description.

(2) Unique Identification Number (License Tag).

(3) Unit Price.

(4) An explanation of the data used to make the unique identification number.

(d) For equipment no longer needed for contract performance and physically transferred under paragraph (a) of this clause, the following additional data is required:

(1) Date originally placed in service.

(2) Item condition.

(e) The data required in paragraphs (c) and (d) of this clause shall be delivered to the NASA center receiving activity listed below:

NASA Goddard Space Flight Center  
Building 35, Code 279  
Greenbelt, MD 20771

(f) The contractor shall include the substance of this clause, including this paragraph (f), in all subcontracts that require delivery of equipment.

(End of clause)"

8. **Section E.2:** Delete the content of clause “HIGHER-LEVEL CONTRACT QUALITY REQUIREMENT (52.246-11) (FEB 1999)” in its entirety and substitute the following in lieu thereof:

The Contractor shall comply with the higher-level quality standard selected below as specified in task orders:

(a) ANSI/ISO/ASQ Q9001-2008 (or as specified in the task order) Quality Management System (QMS) requirements as documented on-line in the GSFC QMS system (<http://gsfcmanagementsystem.gsfc.nasa.gov/fundamentals.cfm>).

-or

(b) The Aerospace Standard (AS) 9100 Rev.C.

or

(c) Additional quality requirements may also be specified in individual task orders.

Compliant means that the contractor has defined, documented, and will continually implement during the term of the contract management-approved methods of operation that conform to the requirements given in the above-cited International Standard.

(End of clause)”

9. **Section E.3:** Clause “ACCEPTANCE—LOCATION(S) (GSFC 52.246-93) (APR 2008)” is deleted and replaced with “ACCEPTANCE—LOCATION(S) (GSFC 52.246-93) (SEP 2013)”
10. **Section F.3:** Clause “PLACE OF PERFORMANCE – SERVICES” is deleted in its entirety and replaced with the following:  
 “PLACE OF PERFORMANCE – SERVICES (GSFC 52.237-92) (NOV 2013)  
 The services to be performed under this contact shall be performed at the following location(s): NASA Goddard Space Flight Center and the Contractor’s off-site facilities. Alternate places of performance may be specified in individual task orders issued.  
 (End of clause)”
11. **Section F.4:** Clause “SHIPPING INSTRUCTIONS--CENTRAL RECEIVING (GSFC 52.247 94) (JUN 2006)” is deleted and replaced with “SHIPPING INSTRUCTIONS--CENTRAL RECEIVING (GSFC 52.247 94) (APR 2013)”
12. **Section G.10:** Clause “INSTALLATION - ACCOUNTABLE GOVERNMENT PROPERTY (1852.245-71) (JAN 2011)” is deleted in its entirety and placed with the following:

**“INSTALLATION - ACCOUNTABLE GOVERNMENT PROPERTY  
(1852.245-71) (JAN 2011)**

(a) The Government property described in paragraph (c) of this clause may be made available to the Contractor on a no-charge basis for use in performance of this contract. This property shall be utilized only within the physical confines of the NASA installation that provided the property unless authorized by the Contracting Officer under (b)(1)(iv). Under this clause, the Government retains accountability for, and title to, the property, and the Contractor shall comply with the following:

- (1) NASA Procedural Requirements (NPR) 4100.1, NASA Materials Inventory Management Manual;
- (2) NASA Procedural Requirements (NPR) 4200.1, NASA Equipment Management Procedural Requirements;
- (3) NASA Procedural Requirement (NPR) 4300.1, NASA Personal Property Disposal Procedural Requirements;
- (4) Notify the cognizant property custodian, Contracting Officer’s Representative (COR), and the Installation Security Officer immediately if theft of Government property is suspected or property cannot be located
- (5) Identify Government property equipment that is no longer considered necessary for performance of the contract.
- (6) Ensure that equipment is turned in to the Property Disposal Officer through the cognizant property custodian when no longer needed. This is the only acceptable procedure for disposal of Government property.
- (7) Do not relocate Government property within Government premises or remove Government property from Government premises without written approval.
- (8) Ensure that Government property, including property leased to the Government, is used only for the purposes of performing the contract.
- (9) Ensure that Government property is protected and conserved.

Property not recorded in NASA property systems must be managed in accordance with the requirements of the clause at FAR 52.245–1, as incorporated in this contract.

The Contractor shall establish and adhere to a system of written procedures to assure continued, effective management control and compliance with these user responsibilities. In accordance with FAR 52.245-1(h)(1) the contractor shall be liable for property lost, damaged, destroyed or stolen by the contractor or their employees when determined responsible by a NASA Property Survey Board, in accordance with the NASA guidance in this clause.

(b)(1) The official accountable recordkeeping, financial control, and reporting of the property subject to this clause shall be retained by the Government and accomplished within NASA management information systems prescribed by the

installation Supply and Equipment Management Officer (SEMO) and Financial Management Officer. If this contract provides for the Contractor to acquire property, title to which will vest in the Government, the following additional procedures apply:

(i) The Contractor's purchase order shall require the vendor to deliver the property to the installation central receiving area.

(ii) The Contractor shall furnish a copy of each purchase order, prior to delivery by the vendor, to the installation central receiving area.

(iii) The Contractor shall establish a record for Government titled property as required by FAR 52.245-1, as incorporated in this contract, and shall maintain that record until accountability is accepted by the Government.

(iv) Contractor use of Government property at an off-site location and off-site subcontractor use requires advance approval of the Contracting Officer and notification of the Industrial Property Officer. The property shall be considered Government furnished and the Contractor shall assume accountability and financial reporting responsibility. The Contractor shall establish records and property control procedures and maintain the property in accordance with the requirements of FAR 52.245-1, Government Property (as incorporated in this contract), until its return to the installation. NASA Procedural Requirements related to property loans shall not apply to offsite use of property by contractors.

(2) After transfer of accountability to the Government, the Contractor shall continue to maintain such internal records as are necessary to execute the user responsibilities identified in paragraph (a) of this clause and document the acquisition, billing, and disposition of the property. These records and supporting documentation shall be made available, upon request, to the SEMO and any other authorized representatives of the Contracting Officer.

(c) The following property and services are provided if checked:

(1) Office space, work area space, and utilities. Government telephones are available for official purposes only.

(2) Office furniture.

(3) Property listed in Attachment L, and Task Orders, if applicable.

(i) If the Contractor acquires property, title to which vests in the Government pursuant to other provisions of this contract, this property also shall become accountable to the Government upon its entry into Government records.

(ii) The Contractor shall not bring to the installation for use under this contract any property owned or leased by the Contractor, or other property that the Contractor is accountable for under any other Government contract, without the Contracting Officer's prior written approval.

(4) Supplies from stores stock.

(5) Publications and blank forms stocked by the installation.

\_\_\_\_ (6) Safety and fire protection for Contractor personnel and facilities.

\_\_X\_ (7) Installation service facilities: “IT Services through the Agency Consolidated End-user Services (ACES) contract” and access to GSFC Installation Laboratories & Equipment.

\_\_X\_ (8) Medical treatment of a first-aid nature for Contractor personnel injuries or illnesses sustained during on-site duty.

\_\_X\_ (9) Cafeteria privileges for Contractor employees during normal operating hours.

\_\_\_\_ (10) Building maintenance for facilities occupied by Contractor personnel.

\_\_\_\_ (11) Moving and hauling for office moves, movement of large equipment, and delivery of supplies. Moving services may be provided on-site, as approved by the Contracting Officer.

(End of clause)”

13. **Section G.12:** Clause “IDENTIFICATION AND MARKING OF GOVERNMENT EQUIPMENT (1852.245-74) (JAN 2011)” is deleted in its entirety, and replace with “RESERVED.”
14. **Section G.17:** Clause “INDIVIDUALS AUTHORIZED TO ISSUE ORDERS” is deleted in its entirety and replaced with the following:

“INDIVIDUALS AUTHORIZED TO ISSUE ORDERS (GSFC 52.216-100) (SEP 2013)

The following personnel are authorized to issue orders under this contract. All designated personnel are employed by the NASA Goddard Space Flight Center unless otherwise indicated:

**Contracting Officer, Code 210.M**

(End of clause)”

15. **Section H.5:** Clause “TASK ORDERING PROCEDURE (1852.216-80) (OCTOBER 1996)” is deleted in its entirety, and replaced with “RESERVED.”
16. **Section H.7:** Clause “SAFETY AND HEALTH--ADDITIONAL REQUIREMENTS (GSFC 52.223-91) (APR 2013)” is deleted in its entirety and replaced with the following:

“SAFETY AND HEALTH--ADDITIONAL REQUIREMENTS  
(GSFC 52.223-91) (NOV 2013)

In addition to compliance with all Federal, state, and local laws as required by paragraph (b) of NFS clause 1852.223-70, the Contractor shall comply with the following:

(a) Incident Reporting: The immediate notification and prompt reporting requirement included in paragraph (d) of NFS clause 1852.223-70 shall be to the Goddard Space Flight Center Occupational Safety and Health Division, Code 350, Tel 301-356-3224 and to the Contracting Officer (CO). This verbal notification should be confirmed in writing via E-Mail to the CO and [Jimmy.R.McLaughlin@nasa.gov](mailto:Jimmy.R.McLaughlin@nasa.gov) and entered into IRIS within 24 hours. This notification is also required for any unsafe or environmentally hazardous condition associated with Government-owned property that is provided or made available for the performance of the contract.

(b) Submit a monthly safety and health report using NASA Incident Reporting Information System (IRIS). Specify incidents (mishaps and close calls), total number of employees working on this contract, and man-hours worked/month. Access to IRIS must be requested through the NASA Access Management System (NAMS) within 30 days of the contract effective at <https://idmax.nasa.gov>. Until access is approved, use the [Contractor Monthly Statistics Report Template](#) available at <http://safety1st.gsfc.nasa.gov> under Contractor Safety and e-mail the completed form to [Hernan.Castellanos@nasa.gov](mailto:Hernan.Castellanos@nasa.gov).

(End of clause)”

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**Section H.13:** Clause “ADVANCED AGREEMENT BETWEEN THE PARTIES: REQUIREMENT TO PROVIDE CONTRACT HISTORICAL DATA (GSFC 52.242-91) (MAR 2011)” is deleted in its entirety and replaced with the following:

“ADVANCE AGREEMENT BETWEEN THE PARTIES: REQUIREMENT TO PROVIDE CONTRACT HISTORICAL DATA (GSFC 52.242-91) (AUG 2013):

- (a) NASA may issue a competitive solicitation for a follow-on effort for services similar to those provided under this contract. As part of this follow-on competition, NASA may include historical labor category descriptions, full-time equivalents (FTEs), average direct labor rates, and other information from this contract in the follow-on solicitation for use by all potential offerors. Including this data in the solicitation is intended to ensure a comprehensive and fair evaluation of competitive proposals and increase the probability that realistic pricing is provided in future proposals submitted. Minimizing the potential risk for unrealistic or unsubstantiated pricing materially reduces the risk that cost/price could become an inappropriate discriminator among competing offerors.”

- (b) Based on the above, the Contractor shall, within 30 days of a written request from the Contracting Officer, provide and deliver all of the information included in Attachment I, CONTRACT HISTORICAL DATA, of the contract.

(End of clause)”

18. **Section H.14:** Clause “REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFEROR” is deleted in its entirety and replaced with the following:

“REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFEROR (GSFC 52.204-100) (SEP 2013)”

The completed provision 52.204-8, Annual Representations and Certifications, including any amended representation(s) made at paragraph (b) of the provision; and other representations, certifications and other statements contained in Section K completed and submitted as part of the offer dated **[insert date of offer]** are hereby incorporated by reference in this resulting contract.

(End of text)”

19. **Section I.1:** Clauses are updated or added to this section as follows:

**Replace clause** “52.202-1 DEFINITIONS (JAN 2012)” **with** “52.202-1 DEFINITIONS (NOV 2013)”

**Delete clause** “52.204-7 CENRAL CONTRACTOR REGISTRATION (DEC 2012)”

**Replace clause** “52.204-10 REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (AUG 2012)” **with** “52.204-10 REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (JUL 2013)”

**Add clause** “52.204-13 SYSTEM FOR AWARD MANAGEMENT MAINTENANCE (JUL 2013)”

**Replace clause** “52.209-6 PROTECTING THE GOVERNMENT’S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (DEC 2010)” **with** “52.209-6 PROTECTING THE GOVERNMENT’S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (AUG 2013)”

**Replace clause** “52.209-9 UPDATES OF PUBLICILY AVAILABLE INFORMATION (FEB 2012)” **with** “52.209-9 UPDATES OF PUBLICILY AVAILABLE INFORMATION (JUL 2013)”

**Add clause** “52.209-10 PROHIBITION ON CONTRACTING WITH INVERTED DOMESTIC CORPORATIONS (MAY 2012)”

**Replace clause** “52.216-7 ALLOWABLE COST AND PAYMENT (JUN 2011), ((a) fill-in “30<sup>th</sup>”)” **with** “52.216-7 ALLOWABLE COST AND PAYMENT (JUN 2013), ((a)(3) fill-in “30<sup>th</sup>”)”

**Replace clause** “52.219-8 UTILIZATION OF SMALL BUSINESS CONCERNS (JAN 2011)” **with** “52.219-8 UTILIZATION OF SMALL BUSINESS CONCERNS (JUL 2013)”

**Replace clause** “52.222-54 EMPLOYMENT ELIGIBILITY VERIFICATION (JUL 2012)” **with** “52.222-54 EMPLOYMENT ELIGIBILITY VERIFICATION (AUG 2013)”

**Add clause** “52.225-8DUTY-FREE ENTRY (OCT 2010)”

**Replace clause** “52.232-25 PROMPT PAYMENT (OCT 2008) – ALTERNATE I (FEB 2002)” **with** “52.232-25 PROMPT PAYMENT (JUL 2013) – ALTERNATE I (FEB 2002)”

**Replace clause** “52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER CENTRAL CONTRACTOR REGISTRATION (OCT 2003)” **with** “52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER-SYSTEM FOR AWARD MANAGEMENT (JUL 2013)”

**Add clause** “52.232-39 UNENFORCEABILITY OF UNAUTHORIZED OBLIGATIONS (JUL 2013)”

**Add clause** “1852.243-71 SHARED SAVINGS (MAR 1997)”

20. **Section I.4:** Replace clause “POST-AWARD SMALL BUSINESS PROGRAM REPRESENTATION (52.219-28) (APR 2012 )” **with** “POST-AWARD SMALL BUSINESS PROGRAM REPRESENTATION (52.219-28) (JUL 2013)” **and** delete the content of the clause in its entirety and substitute the following in lieu thereof:

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

Long-term contract means a contract of more than five years in duration, including options. However, the term does not include contracts that exceed five years in duration because the period of performance has been extended for a

cumulative period not to exceed six months under the clause at 52.217-8, Option to Extend Services, or other appropriate authority.

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 (c) of this clause. Such a concern is “not dominant in its field of operation” when it does not exercise a controlling or major influence on a national basis in a kind of business activity in which a number of business concerns are primarily engaged. In determining whether dominance exists, consideration shall be given to all appropriate factors, including volume of business, number of employees, financial resources, competitive status or position, ownership or control of materials, processes, patents, license agreements, facilities, sales territory, and nature of business activity.

(b) If the Contractor represented that it was a small business concern prior to award of this contract, the Contractor shall rerepresent its size status according to paragraph (e) of this clause or, if applicable, paragraph (g) of this clause, upon the occurrence of any of the following:

(1) Within 30 days after execution of a novation agreement or within 30 days after modification of the contract to include this clause, if the novation agreement was executed prior to inclusion of this clause in the contract.

(2) Within 30 days after a merger or acquisition that does not require a novation or within 30 days after modification of the contract to include this clause, if the merger or acquisition occurred prior to inclusion of this clause in the contract.

(3) For long-term contracts—

(i) Within 60 to 120 days prior to the end of the fifth year of the contract; and

(ii) Within 60 to 120 days prior to the date specified in the contract for exercising any option thereafter.

(c) The Contractor shall rerepresent its size status in accordance with the size standard in effect at the time of this rerepresentation that corresponds to the North American Industry Classification System (NAICS) code assigned to this contract. The small business size standard corresponding to this NAICS code can be found at <http://www.sba.gov/content/table-small-business-size-standards> .

(d) The small business size standard for a Contractor providing a product which it does not manufacture itself, for a contract other than a construction or service contract, is 500 employees.

(e) Except as provided in paragraph (g) of this clause, the Contractor shall make the representation required by paragraph (b) of this clause by validating or updating all its representations in the Representations and Certifications section of the System for Award Management (SAM) and its other data in SAM, as necessary, to ensure that they reflect the Contractor's current status. The Contractor shall notify the contracting office in writing within the timeframes specified in paragraph (b) of this clause that the data have been validated or updated, and provide the date of the validation or update.

(f) If the Contractor represented that it was other than a small business concern prior to award of this contract, the Contractor may, but is not required to, take the actions required by paragraphs (e) or (g) of this clause.

(g) If the Contractor does not have representations and certifications in SAM, or does not have a representation in SAM for the NAICS code applicable to this contract, the Contractor is required to complete the following rerepresentation and submit it to the contracting office, along with the contract number and the date on which the rerepresentation was completed:

The Contractor represents that it [ ] is, [ ] is not a small business concern under NAICS Code 541712 assigned to contract number TBD.[Contractor to sign and date and insert authorized signer's name and title].

(End of clause)"

21. **Section I.9:** Clause "SUBCONTRACTS FOR COMMERCIAL ITEMS (52.244-6) (DEC 210)" is deleted in its entirety and replaced with the following:

"SUBCONTRACTS FOR COMMERCIAL ITEMS (52.244-6) (DEC 2013)"

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

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

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

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

(c)

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

(i) 52.203-13, Contractor Code of Business Ethics and Conduct (Apr 2010) (Pub. L. 110-252, Title VI, Chapter 1 (41 U.S.C. 251 note)), if the subcontract exceeds \$5,000,000 and has a performance period of more than 120 days. In altering this clause to identify the appropriate parties, all disclosures of violation of the civil False Claims Act or of Federal criminal law shall be directed to the agency Office of the Inspector General, with a copy to the Contracting Officer.

(ii) 52.203-15, Whistleblower Protections Under the American Recovery and Reinvestment Act of 2009 (Jun 2010) (Section 1553 of Pub. L. 111-5), if the subcontract is funded under the Recovery Act.

(iii) 52.219-8, Utilization of Small Business Concerns (Jul 2013) (15 U.S.C. 637(d)(2) and (3)), if the subcontract offers further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$650,000 (\$1.5 million for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

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

(v) 52.222-35, Equal Opportunity for Veterans (Sep 2010) (38 U.S.C. 4212(a));

(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), if flow down is required in accordance with paragraph (f) of FAR clause 52.222-40.

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

(ix) 52.225-26, Contractors Performing Private Security Functions Outside the United States (Jul 2013) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. 2302 Note).

(x) 52.232-40, Providing Accelerated Payments to Small Business Subcontractors (Dec 2013), if flow down is required in accordance with paragraph (c) of FAR clause 52.232-40.

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

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

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

(End of clause)"

22. **Section I.19:** Add clause "NOTIFICATION PRIOR TO ACQUIRING INFORMATION TECHNOLOGY SYSTEMS FROM ENTITIES OWNED, DIRECTED OR SUBSIDIZED BY THE PEOPLE'S REPUBLIC OF CHINA (1852.225-74) (JUN 2013)" in its entirety as follows:

"(a) Definitions –

**"Acquire"** means procure with appropriated funds by and for the use of NASA through purchase or lease.

**"Entity owned, directed or subsidized by the People's Republic of China"** means any organization incorporated under the laws of the People's Republic of China.

**"Information Technology (IT) System"** means the combination of hardware components, software, and other equipment to make a system whose core purpose is to accomplish a data processing need such as the automatic acquisition, storage, analysis, evaluation, manipulation, management, movement, control, display, switching, interchange, transmission or reception of data. IT systems include ground systems in support of flight hardware. IT systems do not include—

- (i) Systems acquired by a contractor incidental to a contract;
- (ii) Imbedded information technology that is used as an integral part of the product, but the principal function of which is not the acquisition, storage, analysis, evaluation, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information. For example, HVAC (heating, ventilation, and air conditioning) equipment such as thermostats or temperature control devices, and medical

equipment where information technology is integral to its operation, are not information technology systems;

- (iii) Services in support of IT systems, such as help desk services; or
- (iv) Flight hardware, which includes aircraft, spacecraft, artificial satellites, launch vehicles, balloon systems, sounding rockets, on-board instrument and technology demonstration systems, and equipment operated on the International Space Station; as well as prototypes, and engineering or brass boards created and used to test, troubleshoot, and refine air- and spacecraft hardware, software and procedures.

(b) Section 516 of the Consolidated and Further Continuing Appropriation Act, 2013 (Pub. L.113-6), requires NASA's Office of the Chief Information Officer (OCIO) to assess the risk of cyber-espionage or sabotage of an information technology (IT) system that is produced, manufactured, or assembled by an entity owned, directed or subsidized by the People's Republic of China (PRC). The Government retains the right to reject any IT system tendered for acceptance under this Contract, without any further recourse by, or explanation to, the Contractor, if the Government determines the IT system, in whole or in part, presents an unacceptable risk to national security.

(c) The Contractor shall obtain the approval of the Contracting Officer before acquiring any IT system(s) from entities owned, directed or subsidized by the People's Republic of China under this contract. Any Contractor request to use such items shall include adequate information for Government evaluation of the request, including—

- (1) A brief description of the item(s); and
- (2) Vendor/manufacturer's company name and address;

(d) The Contracting Officer will provide the information referenced in paragraph (c) to the NASA Office of the Chief Information Officer (OCIO) which will assess the risk of cyber-espionage or sabotage and make a determination if the acquisition of such system is in the national interest. Only items so approved shall be provided under the contract.

(End of clause)"

23. **Section I.20:** Add clause "ORDERING (52.216-18) (OCT 1995)" in its entirety with the following:

"(a) Any supplies and services to be furnished under this contract shall be ordered by issuance of delivery orders or task orders by the individuals or activities

designated in the Schedule. Such orders may be issued during the effective ordering period established in Clause F.2 of this contract.

(b) All delivery orders or task orders are subject to the terms and conditions of this contract. In the event of conflict between a delivery order or task order and this contract, the contract shall control.

(c) If mailed, a delivery order or task order is considered issued when the Government deposits the order in the mail. Orders may be issued orally, by facsimile, or by electronic commerce methods only if authorized in the Schedule.

(End of clause)”

24. **Section I.21:** Add clause “ORDER LIMITATIONS (52.216-19)(OCT 1995)” in its entirety with following:

“(a) *Minimum order.* When the Government requires supplies or services covered by this contract in an amount of less than \$1,000, the Government is not obligated to purchase, nor is the Contractor obligated to furnish, those supplies or services under the contract.

(b) *Maximum order.* The Contractor is not obligated to honor -

(1) Any order for a single item in excess of \$15M;

(2) Any order for a combination of items in excess of \$15M; or

(3) A series of orders from the same ordering office within fifteen (15) calendar days that together call for quantities exceeding the limitation in subparagraph (b)(1) or (2) of this section.

(c) If this is a requirements contract (*i.e.*, includes the Requirements clause at subsection 52.216-21 of the Federal Acquisition Regulation (FAR)), the Government is not required to order a part of any one requirement from the Contractor if that requirement exceeds the maximum-order limitations in

paragraph (b) of this section.

(d) Notwithstanding paragraphs (b) and (c) of this section, the Contractor shall honor any order exceeding the maximum order limitations in paragraph (b), unless that order (or orders) is returned to the ordering office within three (3) calendar days after issuance, with written notice stating the Contractor's intent not to ship the item (or items) called for and the reasons. Upon receiving this notice, the Government may acquire the supplies or services from another source.

(End of clause)”

25. **Section I.22:** Add clause “INDEFINITE QUANTITY (52.216-22) (OCT 1995)” in its entirety with the following:

“(a) This is an indefinite-quantity contract for the supplies or services specified, and effective for the period stated, in the Schedule. The quantities of supplies and services specified in the Schedule are estimates only and are not purchased by this contract.

(b) Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. The Contractor shall furnish to the Government, when and if ordered, the supplies or services specified in the Schedule up to and including the quantity designated in the Schedule as the “maximum.” The Government shall order at least the quantity of supplies or services designated in the Schedule as the “minimum.”

(c) Except for any limitations on quantities in the Order Limitations clause or in the Schedule, there is no limit on the number of orders that may be issued. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.

(d) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor’s and Government’s rights and obligations with respect to that order to the same extent as if the order were completed during the contract’s effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after no more than one (1) year from the end of the contract’s effective ordering period for those orders placed within the ordering period where performance extends beyond the end of the effective ordering period.

(End of clause)”

26. **Section I.23:** Add clause “SERVICE CONTRACT REPORTING REQUIREMENTS FOR INDEFINITE-DELIVERY CONTRACTS (52.204-15) (JAN 2014)” in its entirety with the following:

“(a) *Definition.*

First-tier subcontract” means a subcontract awarded directly by the Contractor for the purpose of acquiring supplies or services (including construction) for performance of a prime contract. It does not include the Contractor’s supplier agreements with vendors, such as long-term arrangements for materials or supplies that benefit multiple contracts and/or the costs of which are normally applied to a Contractor’s general and administrative expenses or indirect costs.

(b) The Contractor shall report, in accordance with paragraphs (c) and(d) of this clause, annually by October 31, for services performed during the preceding Government fiscal year (October1-September 30) under this contract for orders that exceed the thresholds established in 4.1703(a)(2).

(c) The Contractor shall report the following information:

(1) Contract number and order number.

(2) The total dollar amount invoiced for services performed during the previous Government fiscal year under the order.

(3) The number of Contractor direct labor hours expended on the services performed during the previous Government fiscal year.

(4) Data reported by subcontractors under paragraph (f) of this clause.

(d) The information required in paragraph (c) of this clause shall be submitted via the internet at [www.sam.gov](http://www.sam.gov). (See SAM User Guide). If the Contractor fails to submit the report in a timely manner, the contracting officer will exercise appropriate contractual remedies. In addition, the Contracting Officer will make the Contractor's failure to comply with the reporting requirements a part of the Contractor's performance information under FAR subpart 42.15.

(e) Agencies will review Contractor reported information for reasonableness and consistency with available contract information. In the event the agency believes that revisions to the Contractor reported information are warranted, the agency will notify the Contractor no later than November 15. By November 30, the Contractor shall revise the report or document its rationale for the agency.

(f)

(1) The Contractor shall require each first-tier subcontractor providing services under this contract, with subcontract(s) each valued at or above the thresholds set forth in 4.1703(a)(2), to provide the following detailed information to the Contractor in sufficient time to submit the report:

(i) Subcontract number (including subcontractor name and DUNS number), and

(ii) The number of first-tier subcontractor direct-labor hours expended on the services performed during the previous Government fiscal year.

(2) The Contractor shall advise the subcontractor that the information will be made available to the public as required by section 743 of Division C of the Consolidated Appropriations Act, 2010.

(End of clause)”

27. **Section I.24:** Add clause “TASK ORDERING PROCEDURE (1852.216-80) (OCT 1996)” in its entirety as follows:

“(a) Only the Contracting Officer may issue task orders to the Contractor, providing specific authorization or direction to perform work within the scope of the contract and as specified in the schedule. The Contractor may incur costs under this contract in performance of task orders and task order modifications issued in accordance with this clause. No other costs are authorized unless otherwise specified in the contract or expressly authorized by the Contracting Officer.

(b) Prior to issuing a task order, the Contracting Officer shall provide the Contractor with the following data:

- (1) A functional description of the work identifying the objectives or results desired from the contemplated task order.
- (2) Proposed performance standards to be used as criteria for determining whether the work requirements have been met.
- (3) A request for a task plan from the Contractor to include the technical approach, period of performance, appropriate cost information, and any other information required to determine the reasonableness of the Contractor's proposal.

(c) Within fourteen (14) calendar days after receipt of the Contracting Officer's request, the Contractor shall submit a task plan conforming to the request.

(d) After review and any necessary discussions, the Contracting Officer may issue a task order to the Contractor containing, as a minimum, the following:

- (1) Date of the order.
- (2) Contract number and order number.
- (3) Functional description of the work identifying the objectives or results desired from the task order, including special instructions or other information necessary for performance of the task.
- (4) Performance standards, and where appropriate, quality assurance standards.
- (5) Maximum dollar amount authorized (cost and fee). This includes allocation of award fee among award fee periods, if applicable.
- (6) Any other resources (travel, materials, equipment, facilities, etc.) authorized.
- (7) Delivery/performance schedule including start and end dates.

(8) If contract funding is by individual task order, accounting and appropriation data.

(e) The Contractor shall provide acknowledgment of receipt to the Contracting Officer within three (3) calendar days after receipt of the task order.

(f) If time constraints do not permit issuance of a fully defined task order in accordance with the procedures described in paragraphs (a) through (d), a task order which includes a ceiling price may be issued.

(g) The Contracting Officer may amend tasks in the same manner in which they were issued.

(h) In the event of a conflict between the requirements of the task order and the Contractor's approved task plan, the task order shall prevail.

(End of clause)”

28. **Section J.1:** Replace clause title “LIST OF ATTACHMENTS” **with** “LIST OF ATTACHMENTS (GSFC 52.211-101) (SEP 2013)”

29. **Section J.1:** Change Attachment C “Financial Management Reporting Requirement” date from “April 2013” to “September 2013” and number of pages change from “7” to “8” pages.

30. **Section K.1:** Clause “52.204-8 ANNUAL REPRESENTATIONS AND CERTIFICATIONS (DEC 2012)” is deleted in its entirety and replaced with the following:

“52.204-8 ANNUAL REPRESENTATIONS AND CERTIFICATIONS (JAN 2014)

“(a)(1) The North American Industry classification System (NAICS) code for this acquisition is 541712.

(2) The small business size standard is 1,000 employees.

(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)(1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the provision at 52.204-7 is not included in this solicitation, and the offeror is currently registered in the System for Award Management (SAM), and has completed the Representations and Certifications section of SAM electronically, the offeror may choose to use paragraph (d) of this provision instead of

completing the corresponding individual representations and certification in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:

(i) Paragraph (d) applies.

(ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c)(1) The following representations or certifications in SAM are applicable to this solicitation as indicated:

(i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—

(A) The acquisition is to be made under the simplified acquisition procedures in Part 13;

(B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or

(C) The solicitation is for utility services for which rates are set by law or regulation.

(ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$150,000.

(iii) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.

(iv) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that—

(A) Are not set aside for small business concerns;

(B) Exceed the simplified acquisition threshold; and

(C) Are for contracts that will be performed in the United States or its outlying areas.

(v) 52.209-2, Prohibition on Contracting with Inverted Domestic Corporations—Representation. This provision applies to solicitations using funds appropriated in fiscal years 2008, 2009, 2010, or 2012.

- (vi) 52.209-5; Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.
- (vii) 52.214-14, Place of Performance--Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.
- (viii) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.
- (ix) 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.
- (A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.
- (B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.
- (x) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.
- (xi) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.
- (xii) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.
- (xiii) 52.222-38, Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.
- (xiv) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA-designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.
- (xv) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA- designated items.
- (xvi) 52.225-2, Buy American Act Certificate. This provision applies to

solicitations containing the clause at 52.225-1.

(xvii) 52.225-4, Buy American Act--Free Trade Agreements--Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at 52.225- 3.

(A) If the acquisition value is less than \$25,000, the basic provision applies.

(B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.

(C) If the acquisition value is \$50,000 or more but is less than \$79,507, the provision with its Alternate II applies.

(D) If the acquisition value is \$79,507 or more but is less than \$100,000, the provision with its Alternate III applies.

(xviii) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.

(xix) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan--Certification. This provision applies to all solicitations.

(xx) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran—Representation and Certification. This provision applies to all solicitations.

(xxi) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to—

(A) Solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions; and

(B) For DoD, NASA, and Coast Guard acquisitions, solicitations that contain the clause at 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns.

(2) The following certifications are applicable as indicated by the Contracting Officer:

[Contracting Officer check as appropriate.]

\_\_\_ (i) 52.219-22, Small Disadvantaged Business Status.

\_\_\_ (A) Basic.

\_\_\_ (B) Alternate I.

\_\_\_ (ii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

\_\_\_ (iii) 52.222-48, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment Certification.

\_\_\_ (iv) 52.222-52 Exemption from Application of the Service Contract Act to Contracts for Certain Services--Certification.

\_\_\_ (v) 52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (Alternate I only).

\_\_\_ (vi) 52.227-6, Royalty Information.

\_\_\_ (A) Basic.

\_\_\_ (B) Alternate I.

\_\_\_ (vii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The offeror has completed the annual representations and certifications electronically via the SAM Web site accessed through <https://www.acquisition.gov> . After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below *[offeror to insert changes, identifying change by clause number, title, date]*. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause	Title	Date	Change

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

(End of provision)”

31. **Section K.2:** Clause “52.209-7 INFORMATION REGARDING RESPONSIBILITY MATTERS. (FEB 2012)” is deleted in its entirety and replaced with the following:

“52.209-7 INFORMATION REGARDING RESPONSIBILITY MATTERS.  
(JUL 2013

(a) Definitions. As used in this provision—

“Administrative proceeding” means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (e.g., Securities and Exchange Commission Administrative Proceedings, Civilian Board of Contract Appeals Proceedings, and Armed Services Board of Contract Appeals Proceedings). This includes administrative proceedings at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include agency actions such as contract audits, site visits, corrective plans, or inspection of deliverables.

“Federal contracts and grants with total value greater than \$10,000,000” means—

- (1) The total value of all current, active contracts and grants, including all priced options; and
- (2) The total value of all current, active orders including all priced options under indefinite-delivery, indefinite-quantity, 8(a), or requirements contracts (including task and delivery and multiple-award Schedules).

“Principal” means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).

(b) The offeror [ ] has [ ] does not have current active Federal contracts and grants with total value greater than \$10,000,000.

(c) If the offeror checked “has” in paragraph (b) of this provision, the offeror represents, by submission of this offer, that the information it has entered in the Federal Awardee Performance and Integrity Information System (FAPIIS) is current, accurate, and complete as of the date of submission of this offer with regard to the following information:

- (1) Whether the offeror, and/or any of its principals, has or has not, within the last five years, in connection with the award to or performance by the offeror of a Federal contract or grant, been the subject of a proceeding, at the Federal or State

level that resulted in any of the following dispositions:

- (i) In a criminal proceeding, a conviction.
  - (ii) In a civil proceeding, a finding of fault and liability that results in the payment of a monetary fine, penalty, reimbursement, restitution, or damages of \$5,000 or more.
  - (iii) In an administrative proceeding, a finding of fault and liability that results in—
    - (A) The payment of a monetary fine or penalty of \$5,000 or more; or
    - (B) The payment of a reimbursement, restitution, or damages in excess of \$100,000.
  - (iv) In a criminal, civil, or administrative proceeding, a disposition of the matter by consent or compromise with an acknowledgment of fault by the Contractor if the proceeding could have led to any of the outcomes specified in paragraphs (c)(1)(i), (c)(1)(ii), or (c)(1)(iii) of this provision.
- (2) If the offeror has been involved in the last five years in any of the occurrences listed in (c)(1) of this provision, whether the offeror has provided the requested information with regard to each occurrence.
- (d) The offeror shall post the information in paragraphs (c)(1)(i) through (c)(1)(iv) of this provision in FAPIIS as required through maintaining an active registration in the System for Award Management database via <https://www.acquisition.gov> (see 52.204-7).

(End of provision”

32. **Section L.1:** Add clause “52.204-7 SYSTEM FOR AWARD MANAGEMENT (JUL 2013)”
33. **Section L.12:** Clause “COMMUNICATIONS REGARDING THIS SOLICITATION (52.215-96) (AUG 2000)” is deleted in its entirety and replaced with the following:

“COMMUNICATIONS REGARDING THIS SOLICITATION (GSFC 52.215-96) (AUG 2000)”

Name: Caesar Gooden, Contracting Officer  
 Phone: 301 286 0109 (collect calls not accepted)  
 FAX: 301-286-1720  
 E-Mail: Caesar.gooden-1@nasa.gov

\*Address: Goddard Space Flight Center, Greenbelt MD 20771  
Attention: Caesar Gooden, Mail Code 210.3

\*(Note: Must be complete, including Mail Code, on all transmittals.)  
The Government will answer relevant and appropriate questions regarding this solicitation. Any offeror questions should be submitted as soon as possible.

(End of provision)

34. **Section L.14:** Delete paragraph (a)(2) and replace (a)(2) with following:

“(2) Offerors and proposed significant subcontractors for cost proposal purposes defined as any subcontract that is likely to exceed 25% of the proposed Government Pricing Model total estimate shall package one (1) additional copy of their Cost Proposal, marked “RFP Solicitation Number NG13360855R/NASA Proposal Evaluation Material”, for their cognizant Defense Contract Audit Agency (DCAA) office.”

35. **Section L.14:** Add to paragraph (b)(1), proposal instructions table, under Mission Suitability Volume (a), add “Proposal Matrix.”

36. **Section L.15:** Provision “OFFER VOLUME” is deleted in its entirety and replaced with the following:

“OFFER VOLUME (AUG 2013)

This must be a separate volume.

- (a) STANDARD FORM (SF) 33, OFFEROR FILL INS AND SECTION K

Blocks 12 through 18 of the SF 33 and the indicated Offeror required fill-ins in Sections B-K must be completed. The signed SF33 and the pages with the required fill-ins must be submitted. Annual representations and certifications shall be completed electronically via the System for Awards Management (SAM) web site accessed through <https://www.acquisition.gov> in accordance with provision K.1, Annual Representations and Certifications (52.204-8). The balance of the solicitation need not be returned unless the Offeror has made changes to other pages that will constitute part of the contract. Any such changes must be separately identified in the Summary of Exceptions. **All SF 33s require original signatures. For Joint Venture (JV) proposals, see FAR Part 4.102 for signature requirements.**

(1) It is requested that Offerors indicate, in Block 12 of the SF 33, a proposal validity period of 270 days. However, in accordance with

paragraph (d) of FAR provision 52.215-1, "Instructions to Offerors-- Competitive Acquisitions," a different validity period may be proposed by the Offeror.

(2) Provide the names, phone numbers, and email addresses of persons to be contacted for clarification of questions of a technical nature and business nature. Identify any consultants and/or subcontractors used in writing this proposal (if any) and the extent to which their services will be available in the subsequent performance of this effort.

The contract schedule refers to TBD and TBP. They are defined as follows:

TBD = TO BE DETERMINED BY THE GOVERNMENT

TBP = TO BE PROPOSED BY THE CONTRACTOR

(b) SUMMARY OF EXCEPTIONS

Include a statement of acceptance of the anticipated contract provisions and proposed contract schedule, or list all specific exceptions to the terms, conditions, and requirements of Sections A through J of this solicitation, to the Representations and Certifications (Section K) or to the information requested in Section L. Include the reason for the exception, new terms, conditions, and/or clauses, including any proposed benefit to the Government. This list must include all exception(s), deviation(s) and/or conditional assumptions taken.

Include any new terms, conditions or clauses proposed by the Offeror which are of benefit to the Government. Discuss the benefit to the Government in Volume I, II, III, or IV as appropriate.

Offerors are cautioned that exceptions or new terms, conditions, or clauses may result in a determination of proposal unacceptability (NFS 1815.305-70), may preclude award to an Offeror if award is made without discussions, or may otherwise affect an Offeror's competitive standing.

(c) ADDITIONAL INFORMATION TO BE FURNISHED

(1) Business Systems

State whether all business systems, including but not limited to accounting, property control, purchasing, estimating, and employee compensation, which require Government acceptance or approval (as applicable) are currently accepted/approved without condition.

Provide the date of acceptance/approval for each system and the cognizant contract administration office. Explain any existing conditional acceptances/approvals and the compliance status of any systems(s) for which acceptance or approval is currently withheld.

FAR 16.301-3 requires that a contractor's accounting system be adequate for determining costs applicable to the contract prior to the award of a cost-reimbursement contract. The offeror shall provide evidence of an adequate accounting system as determined by the cognizant administrative office for accumulating and reporting incurred costs. If an offeror is relying on the accounting system adequacy of a Joint Venture team member, sister company, or any other affiliated company's accounting system, they must demonstrate a convincing basis for using that system as a basis for determining their own adequacy. An adequate accounting system is not an evaluation criterion. It is a basic contract requirement with a pass/fail determination. A contract may only be awarded to the offeror(s) who are determined to have an adequate accounting system.

Offerors who do not have an adequate accounting system determination shall provide evidence of any independent audit and system approvals as well as documented system ability to segregate and accrue costs by contract.

## (2) Contract Administration

Furnish the information listed below:

- a. Cognizant Government audit agency with mailing address, email address, telephone number, and fax number.
- b. Cognizant Government inspection agency with mailing address, email address, telephone number, and fax number.
- c. Cognizant Government Administrative Contracting Officer by name with mailing address, email address, telephone number, and fax number.

## (3) Responsibility Information

Provide information addressing all of the elements under FAR 9.104 to demonstrate responsibility (address the elements under this section that are not addressed in another proposal volume). For Joint Venture proposals, disclose each JV partner's responsibility information.

(4) Taxpayer Identification Number

Prime offerors shall provide their Taxpayer Identification Number (TIN) (the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns).

(5) Government Property

Section L of this solicitation contains NASA FAR Supplement provisions 1852.245-80, "Government Property Management Information" and 1852.245-81, "List of Available Government Property." The first provision requires the submittal of certain information regarding the Offeror's Government property management procedures. The second provision requires the Offeror's to indicate if they intend to use any Government property that may be offered by this solicitation or if the Offeror requests the use of Government property not identified by this solicitation. This information should be included in this volume.

(6) Subcontractor Listing

The Offeror shall provide a summary listing (by name and address) of all subcontractors (regardless of dollar value) that have been identified throughout the Offeror's proposal and the subcontract value associated with each entity.

(7) Organizational Conflicts of Interest

In accordance with NFS 1837.203-70, Providing Contractors Access to Sensitive Information, Offerors shall provide a preliminary analysis of possible organizational conflicts of interest that might flow from the award of this contract. Within 30 days after the contract effective date, the successful contractor shall submit for NASA approval a comprehensive Organizational Conflicts of Interest Avoidance Plan, which will be incorporated into the contract under Clause J.1, **Attachment H**, Organizational Conflicts of Interest Avoidance Plan. This comprehensive plan shall incorporate any previous studies performed; thoroughly analyze all organizational conflicts of interest that might arise because the Contractor has access to other companies' sensitive information; and

establish specific methods to control, mitigate, or eliminate all problems identified. The Contracting Officer shall review the plan for completeness and identify to the Contractor substantive weaknesses and omissions for necessary correction. Once the Contractor has corrected the substantive weaknesses and omissions, the Contracting Officer shall incorporate the approved plan into the contract, as a compliance document.

(8) Contract Security Classification

In accordance with Attachment D, Contract Security Classification Specification (DD 254), Offerors shall possess a Top Secret/Sensitive Compartmented Information (SCI) level facility security clearance for performance of this contract and this clearance shall be maintained throughout the life of the contract. Offerors shall provide their CAGE code for verification of current security clearance status. If an offeror does not have this required clearance at the time of proposal, they shall describe in detail their approach for obtaining this clearance prior to the effective date of the contract (at the end of contract phase-in, if applicable). For proposals submitted as joint ventures, the facility clearance must be granted in the name of the joint venture and the joint venture CAGE code shall be provided.

(End of provision)”

37. **Section L.16: Subfactor A**, delete the third sentence in the first paragraph and replace it with the following:

“Technical approach, labor categories, projected hours, and resource phasing are to be presented at both the sub-task level and the task level.”

38. **Section L.16: Subfactor B**, add after the first sentence in the 6<sup>th</sup> paragraph the following:

“Position descriptions are to be submitted in the Cost Volume only (per the table in Section L.14.b.1).”

39. **Section L.17(2)(a)**: Delete second paragraph in its entirety and replace with the following:

“Indicate how you have computed and applied your indirect cost rates, including cost breakdowns. Show numerical trends and budgetary data to provide a basis for evaluating the reasonableness of pool costs and base projections. It is important that rate pool components are clearly defined and reasonably estimated, that projections regarding future sales are fully supported and are reasonable in their

estimation, and that completed/expiring contracts are properly accounted for as reductions in the business base projections. As such, provide a detailed narrative explaining the basis of the indirect rate derivation, describing the types of costs accumulated for the specific rate pool and their estimation rationale, and the methodology for the projected base of application. Also provide the actual indirect rates realized for the last three contractor fiscal years, annotating if the rate is audited or unaudited. The further your proposed rates depart from established, historical indirect rates, the more important it is for the proposal to thoroughly address and justify the basis for the changes in your proposed rates. Failure to provide this justification may result in cost realism adjustments to your proposal due to the application of rates the Government deems more reasonable and supportable (e.g., historical rates as charged under existing contracts or as supplied by cognizant audit and administrative agencies).”

40. **Section L.17(2)(c):** Delete sub-paragraph 4 in its entirety and replace with the following:

“For each Government Contract Non-Management Direct Labor Category in **Exhibit 1A**, the Prime offeror shall insert the percentage of anticipated effort to be performed by the Prime and/or each Subcontractor. The Prime plus all Subcontractors Percent of Effort **must** total 100% for **each** Government Contract Non-Management Direct Labor Category. For each Government Contract Non-Management Direct Labor Category, a composite rate can be comprised of no more than 3 labor categories. If a composite rate is comprised of 2 or more labor categories, the composite rate shall not contain any labor category with less than 20% of anticipated effort.”

41. **Section L.17(2)(d):** Delete the first sentence in the paragraph and replace with the following:

“Offerors and **all** Subcontractors (regardless of dollar value) included in **Exhibit 1A** shall complete **Exhibits 2A and 2B**, offeror to Government Contract Non-Management Direct Labor Conversion.”

42. **Section L.17(2)(g):** Delete the paragraph in its entirety and replace with the following:

“All Prime Offerors shall complete **Exhibit 3**, Government Pricing Model by Elements of Cost, to include Direct Labor Hours, Direct Labor Dollars, Fringe Benefits (if separate), Overhead, Other Direct Costs, other indirect rates and/or CERs, G&A and Fixed Fee. The Grand Total of Exhibit 3 shall match the Grand Total of Exhibit 1C. Offerors may adjust the elements of cost to be consistent with your current accounting system.”

43. **Section L.17(2)(h):** Delete the 4<sup>th</sup> paragraph in its entirety and replace with the following :

“Describe how subcontracts were estimated and how determined reasonable. Please note if you have experience with the proposed subcontractor(s), if utilized. For any significant subcontract that has a potential estimated value in excess of the threshold stated in Section 1 instructions above, BOEs must be provided by that significant subcontract following the above specified format.”

44. **Section L.17(2)(n):** Delete paragraph (n) in its entirety and replace with the following:

“(n) **PRODUCTIVE WORK YEAR CALCULATIONS**

**Exhibit 9** summarizes the Contractor’s productive work year calculation.”

45. **Section L.18(a):** Delete the 1<sup>st</sup> paragraph in its entirety and replace with the following:

“Prime offerors shall furnish the information requested below for all of your most recent contracts (completed and ongoing) for similar efforts with a minimum average annual cost/fee incurred of \$10M that your company has had within the last 5 years of the RFP release date.”

46. **Section M.3 Subfactor A:** Delete the second sentence in the first paragraph and replace with the following:

“The Government will evaluate the technical approach, skill mix (labor categories and projected hours), resource phasing at both the sub-task level and the task level, Government interface, the flow of activities from start to completion (including time line), facilities and equipment, and any other information to determine the adequacy, comprehensiveness, reasonableness, and effectiveness of the offeror’s plan.”

47. **Attachment C:** Attachment C “Financial Management Reporting Requirement” dated April 2013, is deleted in its entirety and replaced with Financial Management Reporting Requirement” dated September 2013.

48. **Attachment D:** Attachment D “DD Form 254 – Contract Security Classification Specification” is deleted in its entirety and replaced with “DD Form 254 – Contract Security Classification Specification” that is signed and dated May 2013.

49. **Exhibit A** has been modified in general to revise the various dates associated with the tasks. Under MLO Project Schedule, delete the content in its entirety, and replace with the following:

50. **Exhibit A:** Delete Section “General Guidance for Costing RTOs.”
51. **Exhibit A:** Under RTO-1, below Task Title, add “Task Start Date: 10/1/2015” and “Task End Date: 9/30/2019.”
52. **Exhibit A:** Under RTO-1, after the bullets for Section “Government Furnished Property For all RTO-1 Subtasks,” delete “Task Start Date” and replace with “Subtask Start Date.” Also, delete “Task End Date” and replace with “Subtask End Date.”
53. **Exhibit A:** Under RTO-2, below Task Title, add “Task Start Date: 10/1/2015” and “Task End Date: 9/30/2019.”
54. **Exhibit A:** Under RTO-2, after the Section “Location,” delete “Task Start Date” and replace with “Subtask Start Date.” Also, delete “Task End Date” and replace with “Subtask End Date.”
55. **Exhibit B:** Add position and description, for Senior Materials Engineer as follows:

**Senior Materials Engineer**

**Scope:** Directs, plans and implements comprehensive Materials and Processes Programs in accordance with the specific task assignments.

**Responsibilities:** Ensures the safety and success of the mission by the appropriate selection, processing, inspection, and testing of the materials employed to the operational requirement of the application. Provides direction and guidance to lower level Materials Engineers. Generates and maintains materials lists per the requirements of the task. Issues Material Usage Agreements for government approval, when applicable.

56. **Exhibit B:** Add position and description for Junior Materials Engineer as follows:

**Junior Materials Engineer**

**Scope:** Plans and implements a comprehensive Materials and Processes Program in accordance with the specific task assignment.

**Responsibilities:** Under the direction of a Senior Materials Engineer, ensures the safety and success of the mission by the appropriate selection, processing, inspection, and testing of the materials employed to the operational requirement of the application. Generates and maintains materials lists per the requirements of the task. Issues Material Usage Agreements for government approval, when applicable.

57. **Exhibit B:** Add position and description for Junior Structural Dynamics Engineer as follows:

**Junior Structural Dynamics Engineer**

**Scope:** Performs analyses directed toward evaluating spacecraft structural designs in the areas of static and dynamic response to flight environments.

**Responsibilities:** Under the direction of a Senior Structural Analysis Engineer, supports the development of structural designs. Analyzes and evaluates structural performance to show that specified requirements are satisfied. Supports testing of structural designs.

**Position Qualifications:** This position requires some knowledge of structural analysis, development of analytical techniques, and computer simulation of aerospace hardware. This knowledge is to include the static, transient/steady state, dynamic, shock, and random vibration loads analysis and tests. A Bachelor of Science degree in engineering, mathematics, or physics is required.

58. **Exhibit B:** Add position and description for Senior Mechanical Engineer as follows:

**Senior Mechanical Engineer**

**Scope:** Develops, directs and/or performs the design, analysis, and testing of mechanical systems to meet all requirements.

**Responsibilities:** Supports the development of structural designs. Supports the conception, analysis, design, fabrication, integration, testing, deployment, maintenance, and certification of mechanical systems, mechanisms, and related ground support and test equipment. Tasks may include, but are not limited to: math modeling, dynamic analyses, static strength analyses, mass properties calculations, test hardware set-up, and conceptual designs. Performs interface definition, examines designs for proper form, fit, and function. Develops test plans and procedures, and assists in the reduction/analysis of test data.

**Position Qualifications:** This position requires a minimum of ten [10] years of experience in the generation of math models and the computer analysis of engineering problems. The individual must either have the equivalent of a Bachelor of Science degree in engineering, mathematics, or physics, or be within 6 semester hours of completing the degree requirements and anticipate receiving the degree within 12 months.

59. **Exhibit B:** Add position and description for Mechanical Engineer as follows:

### **Mechanical Engineer**

**Scope:** Develops and/or performs the design, analysis, and testing of mechanical systems to meet all requirements, under the guidance of senior level engineer.

**Responsibilities:** Under the direction or guidance of a Senior Mechanical Engineer, supports the development of structural designs. Supports the conception, analysis, design, fabrication, integration, testing, deployment, maintenance, and certification of mechanical systems, mechanisms, and related ground support and test equipment. Tasks may include, but are not limited to: math modeling, dynamic analyses, static strength analyses, mass properties calculations, test hardware set-up, and conceptual designs. Performs interface definition, examines designs for proper form, fit, and function. Develops test plans and procedures, and assists in the reduction/analysis of test data.

**Position Qualifications:** This position requires a minimum of five [5] years of experience in the generation of math models and the computer analysis of engineering problems. The individual must either have the equivalent of a Bachelor of Science degree in engineering, mathematics, or physics, or be within 6 semester hours of completing the degree requirements and anticipate receiving the degree within 12 months.

60. **Exhibit B:** Add position and description for Senior Mechanical Technician as follows:

### **Senior Mechanical Technician**

**Scope:** Performs mechanical fabrication and assembly of flight and ground support hardware.

**Responsibilities:** Sets up and operates machines such as lathes, milling machines, shapers, jig bores, brakes, shears, and heavy duty presses. Cuts, bends, align, and forms metal plates, sheets, and structural shapes as specified by engineering drawings, layouts, and templates. Read engineering drawings for product specifications such as dimensions and tolerances, and tooling instructions. May be required to operate grinder, spot welder, and other machine tools. Assemble hardware as specified by engineering drawings. Assist in the performance of mechanical tests.

**Position Qualifications:** This position requires a minimum of ten [10] years of machine shop experience is required of which a minimum of 5 years shall be in the fabrication and assembly of aerospace flight hardware. Ability to work from sketches and drawings.

61. **Exhibit B:** Add position and description for Senior Electronics Technician as follows:

### **Senior Electronics Technician**

**Scope:** Applies electronic theory, principles of electrical circuits, electrical testing procedures, engineering mathematics, physics, etc. to layout, build, test, troubleshoot, repair, and modify system components and the equipment to test the components.

**Responsibilities:** Discusses the layout and assembly problems with electronic engineers and draw sketches to clarify design details and functional criteria of electronic units. Recommends changes in circuitry or installation specifications to simplify assembly and maintenance. Assembles circuitry using engineering instruction, technical manuals, along with knowledge of electronic systems and components and their functions. Sets up-standard test apparatus or conceive test equipment and circuitry, and conduct function, operational, environmental and life test to evaluate the performance and reliability of prototype or production models. Analyzes and interprets test data. Adjusts, calibrates, aligns, and modifies circuitry and components and record unit performance. Wires chassis, harness, consoles, racks, and PC boards from wire lists, schematics, logic diagrams; cuts wire in specified lengths using wire cutters and measuring jig; strips insulation from wire ends using stripping tool; solders wires to specified plugs and terminals; performs layout and fabrication of printed circuit boards.

**Position Qualifications:** This position requires someone who has graduated from a technical school with three [3] years of experience in aerospace flight/ground support equipment assembly and evaluation. Experience in the design and testing of analog and digital electronic circuit using discrete and integrated circuit technology. Basic knowledge of prototype board layout and build procedures, and ability to read and interpret electrical schematics. Must be familiar with and certified to the requirements of NASA-STD 8739.3.

62. **Exhibit B:** Add position and description for Senior Thermal Development Engineer as follows:

### **Senior Thermal Development Engineer**

**Scope:** Directs or develops designs and/or analysis directed towards developing advanced thermal control technologies.

**Responsibilities:** Develops advanced thermal control hardware and software in response to task requirements. Supports advanced thermal control technology development. Quantifies requirements, develops appropriate design and/or analytical solutions, and conducts tests. Provides guidance and direction to lower level advanced development engineers.

**Position Qualifications:** This position requires a minimum of ten [10] years of experience in thermal design and analysis. This experience must include detailed hardware design, development and use of analytical tools, test experience, and some exposure to flight hardware. Knowledge of heat pipes, capillary pumped loops, heat pumps, and similar thermal control devices are highly desired. A Bachelor of Science degree in engineering, mathematics or physics is required.

63. **Exhibit B:** Add position and description for Senior Contamination Engineer as follows:

#### **Senior Contamination Engineer**

**Scope:** Directs or performs analyses directed toward predicting contamination depositions. Develops contamination control plans. Monitors, reviews, and evaluates overall contamination control management implementation and development.

**Responsibilities:** Reviews contamination control requirements, performs detailed contamination analyses, develops contamination control plans, and implements contamination control plans. Develops new analytical tools in response to task requirements. Provides direction and guidance to lower level Contamination Engineers.

**Position Qualifications:** This position requires a minimum of three [3] years of experience in contamination management and contamination analyses. This experience must include contamination control requirement development, detailed environmental analyses, and contamination impact assessment. Experience with SPACE II, FEMAP, TRASYS and contamination programs such as CAP, MOLFLUX, ISEM, and DSMC is required. Experience with PYTHON and PRO-E is desired. A Bachelor of Science degree or equivalent education /experience in engineering, mathematics, chemistry, material science, or physics is required.

64. **Exhibit B:** Add position and description for Senior Thermal Coatings Engineer as follows:

#### **Senior Thermal Coatings Engineer**

**Scope:** Performs tests directed toward evaluating thermal control coatings for usage on specific spacecraft.

**Responsibilities:** Provides thermal coatings expertise in the R&D, application, characterization and qualification of space flight thermal coatings (paints, thin films, tapes, metals, optical surface reflectors, solar cells, polymeric membranes and composites) for aerospace missions. Generate technical documents, test

plans, and test reports in reference to these activities. Evaluates, analyzes, and qualifies the thermal radiative/optical properties of thermal coatings and materials for space flight applications. Performs routine maintenance on government-owned equipment, as needed.

**Position Qualifications:** This position requires a minimum of ten [10] years of experience in material property characterization and environmental testing of aerospace thermal control coatings. A Bachelor of Science degree in engineering, mathematics, chemistry, material science, or physics is required.

65. **Exhibit B:** Add position and description for Senior Manufacturing Engineer as follows:

**Senior Manufacturing Engineer**

**Scope:** Direct and provide insight/oversight in the manufacturing and assembly areas.

**Responsibilities:** Defines and/or oversees assembly sequence and procedures for complete manufacturing of space qualified hardware. Documents all manufacturing aids and controls. Resolves technical and/or operational situations as they arise and continually monitor manufacturing and assembly for conformance to required specifications.

**Position Qualifications:** This position requires a minimum of ten [10] years of experience in development, manufacturing, assembly and qualification of Military and Industry specifications. Experience with techniques and procedures for assembly and inspection of aerospace manufactured hardware. A Bachelor of Science Degree or equivalent education /experience in an appropriate engineering discipline or related physical science degree.

66. **Exhibit B:** Add position and description for Senior Test and Integration Engineer as follows:

**Senior Test and Integration Engineer**

**Scope:** Directs and performs the operations required in the test and integration of electronic, electromechanical, and thermal systems.

**Responsibilities:** Provides the technical expertise to perform and direct the test and integration of thermal, electronic, and electromechanical systems and subsystems in response to task requirements. This includes the design, fabrication, and operation of ground support equipment (both electronic GSE, and mechanical test fixtures), the design of test sequences, the specification of pass/fail criteria, and the generation of test procedures. This position requires expertise in determining test methodologies, specifying the instrumentation (e.g.

accelerometers, thermistors), and test equipment (e.g. DSA's, Laser ranging interferometers) necessary for test, directing the test, and subsequently analyzing the resulting data (statistically, in the time and frequency domain) and preparing summary reports. This requires expertise in operation of various test equipment, and instrumentation sensors, and in the manipulation and processing of resultant data. Tests will often involve measuring system or subsystem performance over temperature, and in the presence of a disturbance environment.

**Position Qualifications:** This position requires a minimum of ten [10] years of experience in the test and integration of space flight mechanical, electronic, electromechanical, and thermal systems. This experience should include hands-on work with flight hardware at all stages of development, design, build, test, qualification, and on-orbit operation. Emphasis should be placed on an understanding of control/structure interaction, and performance in the presence of jitter. This position also requires expertise in the collection, manipulation and interpretation of test data. A Bachelor of Science degree in engineering, mathematics or physics is required.

67. **Exhibit B:** Add position and description for Senior Test and Integration Technician as follows:

#### **Senior Test and Integration Technician**

**Scope:** Supports the Test and Integration Engineer in the test and integration of electronic, electromechanical, and thermal systems.

**Responsibilities:** Under the direction of Test and Integration Engineer, provides support in the test and integration of thermal, electronic, and electromechanical systems and subsystems in response to task requirements. This includes the breadboarding of test electronics, the fabrication of test harnesses, the interfacing and operation of various test hardware, instrumentation, and equipment, and the documentation of test sequences, and test procedures. It also includes the ability to read and interpret schematics, and efficiently operate computers including the ability to write simple programs.

**Position Qualifications:** This position requires a minimum of ten [10] years of experience in the test and integration of space flight hardware. This position requires experience and NASA approved verification in soldering, wire wrapping, handling ESD sensitive parts, and contamination control. This position requires a minimum of 1 year of education in an engineering technical program; it also requires knowledge of engineering terms and units and computer analysis techniques.

68. **Exhibit B:** Add position and description for Senior Optical Analyst as follows:

#### **Senior Optical Analyst**

**Scope:** Directs or provides system level analysis support for electro-optic instrument and experiment design, calibration, and verification.

**Responsibilities:** Performs and/or directs analysis of electro-optic elements, subsystems, and systems that comprise an optical instrument. Specific duties include system end-to-end studies, digital communication signal to noise analysis, establishing error budgets, etc.

**Position Qualifications:** This position requires a minimum of ten [10] years of experience in optical systems analysis with extensive knowledge in analysis techniques and methodology required during development of aerospace flight systems, components, and related ground support equipment. A Bachelor of Science degree or equivalent education/experience, in physics or engineering.

69. **Exhibit B:** Add position and description for Senior Electro-Optical Engineer as follows:

#### **Senior Electro-Optical Engineer**

**Scope:** Provides system level design, development, calibration and evaluation of electro-optic instruments.

**Responsibilities:** Performs design, development, calibration, and evaluation of electro-optic elements, subsystems, and systems for spaceflight and ground-based systems. Included are lasers, detectors, and beam control assemblies.

**Position Qualifications:** This position requires a minimum of ten [10] years of experience in the design, fabrication, and testing of lasers, detectors, and control assemblies. A Bachelor of Science degree or equivalent education /experience in physics or engineering.

70. **Exhibit B:** Add position and description for Senior Cryogenics Engineer as follows:

#### **Senior Cryogenics Engineer**

**Scope:** Directs or develops designs and/or analysis directed towards developing cryogenic systems for spacecraft systems and instruments.

**Responsibilities:** Conducts or directs research and development work on cryogenic cooling systems for spacecraft systems or instruments. This includes conceiving, designing, and directing the testing of liquid helium, helium-3, adiabatic demagnetization, and dilution refrigerator systems or components. Interface and support the development, fabrication, and testing of components.

**Position Qualifications:** This position requires a minimum of ten [10] years of experience in the development and qualification of low temperature hardware. A Bachelor of Science degree or equivalent education/experience, in engineering, physical science, or mathematics is required.

71. **Exhibit B:** Add position and description for Senior Systems Engineer as follows:

### **Senior Systems Engineer**

**Scope:** Ensures that space/ground systems requirements are archived, analyzes system requirements, develops functional performance requirements, conducts trade studies, and allocates requirements to space and ground system elements.

**Responsibilities:** Is responsible for interface control during development and maintenance activities and for the integration and test planning necessary to verify (prelaunch) that system requirements have been realized. Also, responsible for balancing specialty engineering requirements such that system performance requirements are achieved.

**Position Qualifications:** This position requires a minimum of ten [10] years of experience as an aerospace systems engineer performing several of the analysis, design and integration functions described above. A Bachelor of Science degree or equivalent education and experience, in engineering, computer science or mathematics.

72. **Exhibit B:** Add position and description for Systems Analyst as follows:

### **Systems Analyst**

**Scope:** Performs systems analyses of the optical, electro-optical and RF aspects of space flight and special test equipment subsystems, systems, instruments and spacecraft.

**Responsibilities:** Under the direction of the Senior Systems Analyst, performs systems analyses in response to task requirements. Utilizes analytical tools and/or develops new analytical tools. Knowledge of electro-optical, electronic and mechanical requirements for space flight and special test equipment subsystems, systems, instruments and spacecraft is required. Capable of evaluating and analyzing system requirements and system error budgets to show that they met specific performance requirements.

**Position Qualifications:** This position requires a minimum of five [5] years of experience in the analysis and design of space flight systems. This experience is to include component tolerancing and tolerance sensitivity; radiometry ( receivers, detectors and detector arrays); stray light/energy; alignment and calibration;

Structural-Thermal-Optical (STOP) analysis; system behavior and system error budgets and tolerances of subsystems, instruments and spacecraft; the establishment of component tolerances based on allowable tolerance sensitivities, performance degradation, and error budgets; control systems and the effects of structural modes on control system performance; and RF, digital and analog circuit design and analysis. A Bachelor of Science degree in engineering, mathematics or physics is required.

73. **Exhibit B:** Add position and description for Product Assurance Engineer as follows:

#### **Product Assurance Engineer**

**Scope:** To establish, maintain, and coordinate appropriate product assurance system(s) and disciplines in compliance with requirements specified in individual task assignments.

**Responsibilities:** Under the direction of the Senior Product Assurance Engineer, prepares, maintains, and implements Performance Assurance Implementation Plans (PAIP) in compliance with requirements. Coordinates all applicable performance assurance activities including testing, system safety, EEE parts program, materials assurance, reliability, quality assurance, contamination control, and software assurance. Provides required performance assurance (PA) documentation and prepare PA status reports.

**Position Qualifications:** This position requires a minimum of three [3] years related experience in product assurance. Knowledge of product assurance disciplines as defined in the NASA Handbooks (NASA-STD 8739.3). Ability to coordinate activities of personnel in associated performance assurance disciplines (EEE parts, materials, safety, reliability, etc.). A Bachelor of Science Degree or equivalent education /experience in an appropriate engineering discipline or related physical science degree.

74. **Exhibit B:** Add position and descriptions for Senior Quality Assurance Specialist as follows:

#### **Senior Quality Assurance Specialist**

**Scope:** To inspect flight hardware, flight support equipment, spares, and engineering units for compliance with the requirements of the applicable documents that are specified in the individual task assignments.

**Responsibilities:** Verify that the hardware, plans, and materials are in compliance with the procurement documents and engineering drawings. Ensure that hardware, plans, and materials are being handled and stored properly to prevent degradation and/or damage. Ensure compliance with the configuration control plan, and

verify the configuration of the deliverable hardware. Ensure the processes pertaining to soldering, crimping, conformal coating, electronic welding, stitch-wire welding, structural welding, etc., are being complied with by the fabricator and/or operator.

**Position Qualifications:** This position requires experience in all aspects of mechanical and electrical fabrication, receiving, and shipping inspection. Must have ten [10] years of experience in quality control pertaining to aerospace hardware and/or systems. Thorough knowledge of quality assurance activities as defined in the NASA Handbooks (NASA-STD 8739.3) and ability to implement the requirements with minimal supervision. Must be certified in accordance with the requirements stated in NASA-STD 8739.3. A Bachelor of Science Degree or equivalent education /experience in an appropriate engineering discipline or related physical science degree.

75. **Exhibits 1A – 11B:** Replace Exhibit 1A (Government Pricing Model) for contract years 1 through 5 with updated labor categories and hours.
76. **Exhibits 1A – 11B:** Replace Exhibit 2A (Offeror to Government Contract Non-Management Direct Labor Conversion Onsite, Offsite, or Manufacturing Site) for contract years 1 through 5 with updated labor categories.
77. **Exhibits 1A – 11B:** Add “Exhibit 2 Sample” to Cost Charts.
78. **Exhibits 1A – 11B:** The reference of “Award Fee” is changed to “Fixed Fee.”
79. **L.18, PAST PERFORMANCE VOLUME (MAR 2012), and M.5 PAST PERFORMANCE EVALUATION FACTOR (MAR 2012)** have been revised to change the requirement for “recent” contracts from 5 years to 6 years.
80. **L.17(k), Expense Pools, Exhibit 6a and 6b,** have been updated to incorporate instructions for joint ventures.
81. **Enclosure A – Incumbent Labor Rates,** has been replaced and updated with rates that have been escalated using NASA recommended labor rates for 2014-2015.
82. The RFP instructions in both Mission Suitability and Cost (Sections L & M) were updated to change the phase-in from 45 days to 60 days, and for proposal purposes, the 60 day phase-in period is anticipated to begin on or about April 1, 2015. The contract year 1 is anticipated to start on or about June 1, 2015.
83. RFP cost instructions at L.17.1 was revised to allow all subcontractors to submit cost data under separate cover.