

BROAD AGENCY ANNOUNCEMENT
BAA-RV-12-06
Air Force Research Laboratory/Space Vehicles Directorate

ANNOUNCEMENT OVERVIEW

NAICS CODE: 541712

FEDERAL AGENCY NAME: Air Force Research Laboratory/Space Vehicles Directorate (AFRL/RV)

BROAD AGENCY ANNOUNCEMENT TITLE: W/V-BAND SATELLITE COMMUNICATIONS
EXPERIMENT - PHASE 1

BROAD AGENCY ANNOUNCEMENT TYPE: BAA Announcement (closed w/o calls)

BROAD AGENCY ANNOUNCEMENT NUMBER: BAA-RV-12-06

PROPOSAL DUE DATE AND TIME: Proposals will be due by **12:00 p.m., Mountain Standard Time (MDT) 45 days from the date of publication of the FedBizOpps notification and delivered to Det 8 AFRL/RVKVV, ATTN: Luisa A. Martinez-Medina, 3550 Aberdeen Ave., Bldg. 413, Rm. 160, Kirtland AFB NM 87117-5776.** Proposal received after this due date and time shall be governed by the provisions of FAR 52.215-1(c)(3).

BRIEF PROGRAM SUMMARY:

This is a Broad Agency Announcement (BAA) describing the research areas of interest for the W/V-Band Satellite Communications Experiment (WSCE) Phase 1 program. A minimum of one contract award is anticipated with a period of performance not to exceed 12 months.

ESTIMATED PROGRAM COST: Anticipated funding for the program is \$2-\$3M. This funding profile is an estimate only and will not be a contractual obligation for funding. All funding is subject to change due to Government discretion and availability. All potential offerors should be aware that due to unanticipated budget fluctuations, funding in any or all areas may change with little or no notice.

GENERAL INFORMATION: This acquisition is unrestricted. The applicable NAICS code for this announcement is **541712** *for Research and Development in the Physical, Engineering, and Life Sciences (except Biotechnology)*, with a size standard of 1,000 employees. This BAA is issued under the provisions of Federal Acquisition Regulation paragraph 6.102(d)(2) that provides for the competitive selection of research proposals. Proposals submitted in response to this BAA that are selected for award are considered to be the result of full and open competition and in full compliance with the provisions of PL 98-369, the Competition In Contracting Act of 1984. There will be no other announcement issued for this requirement. Offerors MUST monitor **FedBizOpps** <http://www.fbo.gov> in the event this announcement is amended.

TYPE OF CONTRACT: The Air Force reserves the right to award the instrument best suited to the nature of research proposed. Accordingly, the Government may award any appropriate contract type under the Federal Acquisition Regulation. It is anticipated that an award under this BAA will be a Cost Plus Fixed Fee contract which requires successful offerors to have an accounting system considered adequate for tracking costs applicable to the contract. There are no grant opportunities under this solicitation.

CCR REGISTRATION: Unless exempted by 2 CFR 25.110 all offerors must (1) Be registered in the Central Contractor Registration (CCR) prior to submitting an application (for an award) or proposal; (2) Maintain an active CCR registration with current information at all times during which it has an active Federal award or an application or proposal under consideration by an agency; and (3) Provide its DUNS

number in each application or proposal it submits to the agency. On-line registration instructions can be accessed from the DISA CCR home page at <http://www.ccr.gov>.

ON-LINE REPRESENTATIONS AND CERTIFICATIONS: Potential offerors are notified that effective 01 Jan 2005 to be eligible for an award; they must submit annual Electronic Representations and Certifications, otherwise known as On-line Representations and Certifications Application (ORCA) via the Business Partner Network (BPN) at <http://www.bpn.gov/orca>. These FAR and DFARS level representations and certifications are required in addition to the representations and certifications specific to this acquisition. Before submitting the Electronic Representations and Certifications, contractors must be registered in the Central Contractor Registration (CCR) Database.

ANTICIPATED NUMBER OF AWARDS: The Air Force anticipates awarding a minimum of one contract. However, the Air Force does reserve the right to make multiple awards or no awards pursuant to this BAA.

TECHNICAL POINTS OF CONTACT:

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Email: Steven.Lane@kirtland.af.mil

William Cook, Principal Investigator
AFRL/RITE
Phone: (315) 330-7439
Email: William.Cook@rome.af.mil

CONTRACTING POINTS OF CONTACT:

Luisa A. Martinez-Medina
Contract Specialist
Det 8 AFRL/RVKVV
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BROAD AGENCY ANNOUNCEMENT
BAA-RV-12-06
Air Force Research Laboratory, Space Vehicles Directorate

FULL TEXT ANNOUNCEMENT

NAICS CODE: 541712

FEDERAL AGENCY NAME: Air Force Research Laboratory, Space Vehicles Directorate (AFRL/RV)

BROAD AGENCY ANNOUNCEMENT TITLE: W/V-BAND SATELLITE COMMUNICATIONS
EXPERIMENT – PHASE 1

BROAD AGENCY ANNOUNCEMENT NUMBER: BAA-RV-12-06

PROPOSAL DUE DATE AND TIME: Proposals will be due by **12:00 p.m., Mountain Standard Time (MDT) 45 days from the date of publication of the FedBizOpps notification and delivered to Det 8 AFRL/RVKVV, ATTN: Luisa A. Martinez-Medina, 3550 Aberdeen Ave., Bldg. 413, Rm. 160, Kirtland AFB NM 87117-5776.** Proposal received after this due date and time shall be governed by the provisions of FAR 52.215-1(c)(3).

1. REQUIREMENTS DESCRIPTION

- a. The Air Force Research Laboratory (AFRL) Space Vehicles Directorate (RV) is interested in receiving proposals from all offerors to advance the state-of-the-art and scientific knowledge regarding radio frequency bi-directional satellite communication at millimeter wavelengths, particularly 71 – 76 GHz (within the V-band) (downlink channel) and 81 – 86 GHz (within the W-band) (uplink channel).
- b. This is a Broad Agency Announcement (BAA) describing the research areas of interest for the W/V-Band Satellite Communications Experiment (WSCE) Phase 1 program. The Air Force anticipates awarding a minimum of one contract with a total period of performance not to exceed 12 months. However, the Air Force does reserve the right to make multiple awards or no awards pursuant to this BAA. There are no grant opportunities under this solicitation.
- c. **TECHNOLOGY AREA DESCRIPTION**

- i. **WSCE Program Objectives**

The Air Force Research Laboratory (AFRL) in collaboration with the Space and Missile Systems Center, Military Satellite Communications Directorate (SMC/MC), requires experimental measurements sufficient to statistically characterize atmospheric propagation physics at 71 – 76 GHz and 81 – 86 GHz to support systems engineering, assessment, and design of future operational military satellite communication architectures and systems.

The primary technical objective of this program is to statistically characterize and model V-band propagation phenomena (signal attenuation, phase distortion, and depolarization) and correlate to atmospheric and meteorological parameters. Models must be sufficiently validated and reliable to support systems engineering, assessment, and design of future operational military satellite communication architectures and systems. The approach to meet the primary technical objective is to operate a beacon at a geostationary orbit over the continental United States that emits a narrow-band reference signal that is then measured by multiple, disparate,

ground data measurement receivers. Channel propagation effects can be assessed by comparing the received signal to the transmitted reference signal.

The secondary technical objective of this program is to develop and validate communication link models over the 71 – 76 GHz and 81 – 86 GHz frequency bandwidths. This technical objective necessitates a higher level of sophistication as bi-directional, modulated data signal measurements are required. Key measurements include bit-error-rate, link margin, and availability. The approach to meet the secondary technical objective is to operate a transponder at a geostationary orbit over the continental United States. The transponder will receive (uplink) signals from a ground transceiver in the 81 – 86 GHz frequency band and retransmit (downlink) signals to the ground transceiver in the 71 – 76 GHz frequency band.

ii. **WSCE Program Design Criteria and Assumptions**

Preliminary research by the Government suggests that to accomplish meaningful research and experimental data collection, the system design criteria listed in Table 1 should be considered as a starting point for the beacon payload and companion ground data collection instruments. ***These are notional; initial system requirements will be established during the Phase 1 effort and then updated as necessary during the development cycle to meet changes in performance, cost, and schedule requirements.*** Clear-day link margins are suggested so as to provide ample signal strength to facilitate rain-fade measurements. Table 2 lists additional information and assumptions that will be updated as the program moves forward.

Table 1: Beacon Experiment Design Criteria

| | |
|------------------------------|--|
| Duration of data collection | Threshold: 36 months; Objective: 60 months |
| Ground data collection sites | Multiple – exact number to be determined |
| Clear-day link margin | Threshold: 30 dB; Objective: 36 dB |
| Signal | Threshold: single tone at 73.5 GHz; Objective: three tones (e.g., at 71 GHz, 73.5 GHz, and 76 GHz) |
| Supplemental K-band beacon | Threshold: not included; Objective: Included |
| Transmit power | Design parameter to be determined |
| Transmit aperture size | Design parameter to be determined |
| Receive aperture | Design parameter to be determined |

Table 2: Beacon Experiment Assumptions

| | |
|-------------------------------------|---|
| Space segment | Assume that the flight unit will be a hosted payload on a primary spacecraft/bus to be determined by the Government |
| Size, weight, and power constraints | To be determined once host spacecraft is identified, but size, weight and power should not be considered to be limiting design requirements at this stage of development; power will be provided by host spacecraft |
| Orbit | Assume geostationary over CONUS (~100 degrees west longitude) |
| Aperture pointing | Assume nadir deck location for pointing transmit aperture location on host spacecraft |
| Telemetry | Assume that flight unit command, control, health and status will be accomplished through a communications link to the host spacecraft bus |
| Environment | Transmit aperture will be mounted on nadir deck of host spacecraft; electronic system will be mounted inside of spacecraft bus, which offers some thermal control and radiation protection |

In addition, preliminary research by the Government suggests the system design criteria listed in Table 3 should be considered as a starting point for the transponder payload and companion ground transceiver instruments. Given the increased difficulty of the transponder experiment, clear-day only operation may be the only feasible design approach. Information and assumptions given for the beacon are applicable to the transponder. **These are notional; initial system requirements will be established during the Phase 1 effort and then updated as necessary during the development cycle to meet changes in performance, cost, and schedule requirements.** To insure interoperability and to reduce technical risk, it can be assumed that the ground receivers (and / or transceivers) would be designed in parallel with the space segment.

Table 3: Transponder Experiment Design Criteria

| | |
|-------------------------------|---|
| Duration of data collection | Threshold: 36 months; Objective: 60 months – both intermittently (~10% duty cycle) |
| Ground sites | Threshold: single transceiver station; Objective: multiple transceiver stations (potentially using existing ground stations / antenna) |
| Clear-day link margin | Design parameter to be determined |
| Signal bandwidth / data rate | Threshold: bandwidth and signal-to-noise to support at least 19.2 kbps data rate; Objective: bandwidth and signal-to-noise to support at least 10 Mbps data rates |
| Number of carrier frequencies | Threshold: a single carrier frequency in the W-band (uplink) and a single carrier frequency in the V-band (downlink); Objective: three carriers in the W-band (uplink) (e.g., 81 GHz, 84.5 GHz, and 86 GHz), and a single V-band (downlink) carrier |
| Transmit power | Design parameter to be determined |
| Transmit aperture size | Design parameter to be determined |
| Receive aperture | Design parameter to be determined |

iii. **WSCE Program Strategy**

The W/V-Band Satellite Communications Experiment program will be separated into phases to better manage technical and programmatic risks. Although similar experiments were conducted to characterize the K-band in the 1990's, it is understood that the lack of space-qualified W and V band electronic components and new software development pose peculiar risks to this effort. Table 4 lists the planned phases of this program.

Table 4: WSCE Planned Program Phases

| | |
|---------|---|
| Phase 1 | Concept development to the Preliminary Design Review milestone |
| Phase 2 | System design development to the Critical Design Review milestone; will include laboratory demonstrations for concept / design validation |
| Phase 3 | Development and delivery of the engineering demonstration unit, the flight-ready system, and ground data collection systems |
| Phase 4 | Pre-launch assembly, integration, and test support of the flight hardware |
| Phase 5 | On-orbit experiment support |

iv. **Phase 1 Objectives**

This Broad Agency Announcement (BAA) focuses on the Phase 1 effort. Phase 1 of this effort will develop candidate concepts and technologies for the space and ground systems to the Preliminary Design Review milestone. The technical period of performance for the Phase 1 effort is anticipated to not exceed 9 months. Table 5 lists objectives for the Phase 1 effort. Specific elements will be defined prior to contract award upon consideration of inputs provided by offerors.

Table 5: Phase 1 Objectives

| | |
|---|---|
| 1 | System Requirements Review |
| 2 | Modeling and simulation to demonstrate that the proposed concept is feasible and will meet mission requirements (propagation channel, link, RF systems, size, weight, power requirements) |
| 3 | Risk identification and management |
| 4 | Sub-system design descriptions (space segment, ground segment, hardware, software) |
| 5 | Experiment planning and description |
| 6 | Interface descriptions |
| 7 | Assess spacecraft integration |
| 8 | Preliminary Design Review (tailored) |

v. **Phase 1 Deliverables**

Table 6 lists anticipated Phase 1 documents and data deliverables. See Attachment 6 for a draft of the Contract Data Requirements Lists (CDRLs) for all data deliverables.

Table 6: Phase 1 Documents and Deliverables

| | |
|---|-------------------------------------|
| 1 | Presentation Materials |
| 2 | Monthly Status / Execution Report |
| 3 | Final Technical Report |
| 4 | Integrated Master Schedule |
| 5 | Risk Assessment and Management Plan |
| 6 | System Design Description |
| 7 | Draft Experiment Plan |
| 8 | Draft Interface Definition |
| 9 | Draft Environment Definition |

2. AWARD INFORMATION

- a. **ANTICIPATED FUNDING:** Anticipated funding for the program is \$2-\$3M. This funding profile is an estimate only and will not be a contractual obligation for funding. All funding is subject to change due to Government discretion and availability. All potential offerors should be aware that due to unanticipated budget fluctuations, funding in any or all areas may change with little or no notice.
- b. **ANTICIPATED NUMBER OF AWARDS:** The Air Force anticipates awarding a minimum of one contract with a total period of performance not to exceed 12 months. However, the Air Force does reserve the right to make multiple awards or no awards pursuant to this BAA.

3. POINTS OF CONTACT

a. TECHNICAL POINTS OF CONTACT:

Steven A. Lane, PhD, Program Manager
AFRL/RVSV
3550 Aberdeen Ave. SE
Kirtland AFB, NM 87117-5776
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Email: Steven.Lane@kirtland.af.mil

William Cook, Principal Investigator
AFRL/RITE
Phone: (315) 330-7439
Email: William.Cook@rome.af.mil

b. CONTRACTING POINTS OF CONTACT:

Luisa A. Martinez-Medina
Contract Specialist
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Email: David.Romo-Garza@kirtland.af.mil

c. OMBUDSMAN

AFFARS CLAUSE 5352.201-9101 Ombudsman (APR 2010) is hereby incorporated into this BAA and will be made a part of any awards based on this solicitation. An Ombudsman has been appointed to hear and facilitate the resolution of concerns from offerors, potential offerors, and others for this acquisition announcement. Before consulting with an ombudsman, interested parties must first address their concerns, issues, disagreements, and/or recommendations to the contracting officer listed above for resolution. The ombudsman for AFRL is identified below:

AFRL/PK
1864 4th Street, Bldg 15, Room 225
Wright-Patterson AFB, OH, 45433-7130
Phone: (937) 904-4407
Fax: (937) 904-7024
Email: Barbara.Gehrs@wpafb.af.mil

4. ELIGIBILITY INFORMATION

- a. **ELIGIBLE OFFERORS/APPLICANTS:** All responsible sources capable of satisfying the Government's requirements may submit a proposal. Small Businesses, Historically Black Colleges (HBCU), Minority Institutions (MI), Small Disadvantaged Business (SDB), Woman-Owned Businesses, and Service-Disabled Veteran-Owned Businesses are encouraged to submit proposals; however no part of this announcement will be a set-aside. Foreign or foreign-owned offerors are advised that their participation is subject to foreign disclosure review procedures. Foreign or foreign-owned offerors should immediately contact the contracting office focal point for information if they contemplate responding. All correspondence must reference the BAA number and title.
- b. **COST SHARING OR MATCHING:** The Government is not considering a cost sharing arrangement.
- c. **FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS:** The following guidance is provided for other DoD sponsored and Non-DoD sponsored Federally Funded Research and Development Centers (FFRDCs) contemplating submitting a proposal, as either a prime or subcontractor, against this BAA. FAR 35.017-1(c)(4) prohibits an FFRDC from competing with any non-FFRDC concern in response to a Federal agency request for proposal for other than the operation of an FFRDC (with exceptions stated in DFARS 235.017-1(c)(4)). There is no regulation prohibiting an FFRDC from responding to a solicitation. However, the FFRDC's sponsoring agency must first make a determination that the effort being proposed falls within the purpose, mission, general scope of effort, or special competency of the FFRDC, and that determination must be included in the FFRDC's proposal. In addition, the non-sponsoring agency must make a determination that the work proposed would not place the FFRDC in direct competition with domestic private industry. Only after these determinations are made would a determination be made concerning the FFRDC's eligibility to receive an award.
- d. **GOVERNMENT AGENCIES:** If a Government agency is interested in performing work please contact the Program Office identified in the BAA. If those discussions result in a mutual interest to pursue your agency's participation, the effort will be pursued independent of this broad agency announcement.
- e. **EXPORT CONTROL:** Research areas may involve technology that is subject to International Traffic in Arms Regulations (ITAR) and U.S. Export Control Laws. Only offerors who are certified by the Defense Logistics Information Service (DLIS) may submit proposals. For questions, contact DLIS on-line at <http://www.dlis.dla.mil/jcp> or at DLIS, US/Canada Joint Certification Center, Federal Center, 74 North Washington, Battle Creek MI 49017-4312, (800) 352-3572. DFARS 252.204-7008, Export Controlled Items (APR 2010) is incorporated into this solicitation and will be in any awards resulting from this BAA.

5. COMMUNICATIONS

- a. Prospective offerors are reminded to contact the technical point of contact to verify interest in the effort to be proposed and the funding availability PRIOR to committing any resources to the preparation of any proposals in response to this announcement.
- b. Dialogue between prospective offerors and Government representatives is encouraged until submission of proposals. Discussions with any of the points of contact shall not constitute a commitment by the Government to subsequently fund or award any proposed effort. Offerors are advised that only Contracting Officers are legally authorized to commit the Government.

6. PROPOSAL/APPLICATION AND SUBMISSION INFORMATION

a. GENERAL INFORMATION

- i. **PROPOSALS SHOULD BE SUBMITTED AGAINST THIS BAA:** Proposals will be due by **12:00 p.m., Mountain Standard Time (MDT) 45 days from the date of publication of the FedBizOpps notification and delivered to Det 8 AFRL/RVKVV, ATTN: Luisa A. Martinez-Medina, 3550 Aberdeen Ave., Bldg. 413, Rm. 160, Kirtland AFB NM 87117-5776.** Proposals received after the due date and time specified shall be governed by the provisions of FAR 52.215-1(c)(3). Proposals sent to any inappropriate address are ineligible for award. **Proposals sent via facsimile or electronic means will not be accepted.** It should be noted that this installation observes strict security procedures to enter the facility. These security procedures are NOT considered an interruption of normal Government processes, and proposals received after the above stated date and time as a result of security delays will be considered "late". Furthermore, note that if offerors utilize commercial carriers in the delivery of proposals, they may not honor time-of-day delivery guarantees on military installations. Early proposal submission is encouraged. Please refer questions regarding base installation access to Luisa A. Martinez-Medina at 505-853-1425 or luisa.martinez-medina@kirtland.af.mil.
- ii. **The Government anticipates that proposals will be unclassified.** However, if an offeror determines that the submission of classified information is necessary, prior to its submission should contact the technical points of contact listed in this solicitation. The technical points of contact will determine the applicability of the information and if necessary coordinate the appropriate means of its submission. Offerors should notify the Government as early as possible to allow for adequate processing. Any information will be provided as an addendum to the technical proposal and is held to the same time and date proposal submission requirements. The security point of contact for this solicitation is Alvin Sullen, (505) 846-6724, alvin.sullen@kirtland.af.mil.
- iii. There will be no other announcement issued for this requirement. Offerors MUST monitor FedBizOpps <http://www.fbo.gov> in the event this announcement is amended. Offerors must monitor this system to ensure they receive the maximum proposal preparation time for subsequent amendments as this is the official notification vehicle to request proposals.
- iv. Potential offerors are requested to advise the Contracting Officer if they intend to submit a proposal in response to this BAA. Such notification is merely a courtesy and is not a commitment by the offeror to submit a proposal.
- v. This BAA is an expression of interest only and does not commit the Government to pay for proposal preparation cost. The cost of preparing proposals in response to this BAA is not considered an allowable direct charge to any resulting contract or to any other contract. However, it may be an allowable indirect expense as specified in FAR 31.205-18.
- vi. DoD policy, per DFARS 227.7103-1, is to acquire only the technical data and the rights in that data, necessary to satisfy Government needs. The Government anticipates receiving, as a minimum, "Government Purpose Rights" to all technical data developed under contracts awarded based on proposals received in response to this announcement. Data rights offered other than "Unlimited Rights," as defined in DFARS 227.7103-5, should be identified in DFARS clause 252.227-7017, Identification and Assertion of Use, Release, or Disclosure Restrictions, included in the representations and certifications.

- vii. You may be ineligible for award if all requirements of this announcement and requirements in the BAA are not met by the proposal due date and time as identified in the BAA.

b. PROPOSAL SUBMISSION

- i. Offerors should apply the restrictive notice prescribed in the provision of FAR 52.215-1(e) Instructions to Offerors—Competitive Acquisition. Properly marked proprietary information will be treated in accordance with DFARS 252.227-7016, Rights in Bid or Proposal Information.
- ii. Technical/management and cost volumes should be submitted in separate volumes, and shall be valid for 180 days. Proposals must reference the BAA announcement number and include a unique contractor generated proposal identification number. Unnecessarily elaborate brochures or presentations beyond that sufficient to present a complete and effective proposal are not desired.
- iii. Submit a cover letter, a hard copy and one soft copy (CD-ROM, PC format) of the technical proposal and the cost/business proposal. The hard copy of the technical and cost/business proposal must be in separate volumes. The soft copy of the cost proposal worksheets must be in Microsoft Office Excel 2003 or later version and must contain all cell formulas.
- iv. Offerors are advised that data included in the technical and cost/business proposals submitted to the Government in response to this BAA may be released to non-Government advisors for technical advice.

c. SPECIFIC PROPOSAL PREPARATION INSTRUCTIONS

- i. **Cover letter:** A cover letter shall accompany each proposal. The cover letter should identify the BAA number under which the proposal is submitted, a statement that the proposal is valid for 180 days from the due date specified in the BAA, provide technical and contracting points of contact, CAGE code, DUNS number, and include a statement indicating if the firm is a small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, 8(a), or women-owned small business concern. The proposal must be signed and dated by an authorized official of the organization.
- ii. **Technical Proposal:**
 - 1) **Page Limitation:** The technical proposal including the C-SOW shall be limited to 50 pages, single-spaced, single-sided, 8.5 by 11-inch pages. Select an easy to read font no smaller than 12 pitch fixed or proportional font size 10 or larger. Smaller type may be used in figures and tables as long as it is clearly legible. The page limitation includes all information (i.e., indices, photographs, foldouts, appendices, attachments, resumes, C-SOW, etc.). Blank pages, title pages, tables of content, lists, tabs or cover sheets are not included in the page count. The Government may not consider pages in excess of this limitation.
 - 2) **Content:** *The technical proposal must convey (1) an understanding of the overall W/V-Band Satellite Communications Experiment program objectives, (2) a program plan covering all 5 phases of the W/V-Band Satellite Communications Experiment program listed in Table 4, and (3)*

a specific plan to achieve the Phase 1 objectives listed in Table 5. Proposals should be tailored by the offeror to clearly and logically convey their story, but should include the following items:

- a. **Executive Summary:** Please provide a synopsis of the proposal. Explain key benefits of the proposed approach and the relationship to the W/V-Band Satellite Communications Experiment program objectives. Please highlight any aspects of your approach that you consider particularly innovative and advantageous.
- b. **Program Description:** Discussion of the proposed effort can be separated into an overall program description and a Phase 1 specific description. Please provide any relevant background and analysis necessary to understand and appreciate the proposed approach. Please define the proposed concept; identify important open design trades, key risks, decision milestones, premises, and special considerations; and discuss any systems engineering accomplished that supports the proposed concept (particularly model and simulation analysis). Include a Rough Order of Magnitude (ROM) of schedule and cost for the overall program.
- c. **Program Plan:** Describe in detail the planned approach for the overall system development and for the Phase 1 specific effort. This section should include all technical aspects of the approach. Provide technical detail and analysis necessary to support the technical approach proposed. Identify why proposed subcontractors and partners were selected and what tasks they are to perform. Identify any leveraged efforts or tasks to be performed using non-Government funding. Include an Integrated Master Schedule that indicates the proposed contractor work breakdown structure, task duration, and time-phasing of tasks.
- d. **Contractor's Statement of Work (C-SOW):** *The C-SOW, a stand-alone document, should detail the tasks to be accomplished under the Phase 1 program.* The C-SOW should be suitable for incorporation into the awarded document. The proposed C-SOW should summarize the technical methodology and the task description, but not to the extent to make the awarded instrument inflexible. **Do not include any proprietary information in the C-SOW.** Contractors may request copies of our contracts under the Freedom of Information Act. Consequently, it is imperative that no company-sensitive information be included in the C-SOW. The C-SOW should include the anticipated deliverables (hardware, software, reports, etc.).

The following is offered as a recommended format for the C-SOW. The C-SOW should be structured in three sections; Scope, Applicable Documents, and Requirements.

SCOPE: This section includes a statement of what the program covers. This should include the technology area to be investigated, objectives/goals, and major milestones for the effort. It defines the breadth and limitations of the work to be done.

APPLICABLE DOCUMENTS: This section includes reference documents needed to identify or clarify the work to be performed.

REQUIREMENTS: This section identifies the specific work to be performed. The work effort should be arranged into major tasks and identified in separately numbered paragraphs that correspond to the contractor work breakdown structure. Each numbered major task should delineate by subtask the work to be performed and should follow an outline numbering scheme. The C-SOW must identify all reviews and when/where (identify by milestone or task) that will be conducted. It must also identify any and all items (hardware, software, reports, etc.) to be delivered to the Government as a result of the program.

- e. **Milestone Chart:** A Milestone Chart should indicate when specific objectives are expected to be met in the overall program schedule and should identify the specific accomplishments necessary to proceed to the next task. Provide a schedule of when the deliverable items identified are to be delivered. This can be addressed with an Integrated Master Schedule.
- f. **Facilities and Equipment Description:** Describe the facilities that can be used to achieve the goals of the program, in terms of manufacturing capability, testing facilities, and/or any relevant specialized equipment. Please describe any anticipated facilities and equipment to be acquired to complete the program.
- g. **Description of Relevant Prior Work:** Provide a list of related previous or current Government, commercial, or internally funded work during the past five years. For each such effort, provide the principal investigator, title of effort, contract number, a brief summary of results, dollar value, and a technical and contracting point of contact, including phone numbers, for the funding organizations.
- h. **Management Plan:** Offerors should provide an approach that demonstrates the ability to effectively and efficiently manage and administer the research program to a successful conclusion.
- i. **Resumes of Key Individuals:** Include brief summaries of resumes of relevant key individuals including any consultants or subcontractors that might be proposed.

iii. **Business/Cost Proposal**

Separate this proposal into a business section and a cost section.

- 1) **Business Section:** The business section should contain all business aspects to the proposed contractual arrangement, such as type of contract/instrument, any unique terms and conditions, any exceptions to terms and conditions of this announcement, and any information not technically related. Provide rationale for exceptions. As a goal, offerors are requested to keep the business section to 20 pages. This section should include the following items as appropriate:
 - a. Completed Section K, Representations & Certifications. See Attachment 1.

- b. Completed Proposal Content Checklist: failure to provide a complete proposal may result in a determination that the proposal is non-responsive and may be eliminated from consideration for award. See Attachment 2.

- 2) **Cost Section:** The cost proposal containing other than cost or pricing data shall be submitted in accordance with the FAR Cost Proposal Instructions (Attachment 3) and shall comply with the Air Force Proposal Adequacy Checklist (AFPAC) (Attachment 4), which is necessary for the Government to perform a cost realism analysis. Adequate price competition is anticipated for this BAA, unless stated otherwise in the announcement. A determination as to the existence of adequate price competition will be made by the cognizant Procuring Contracting Officer on a case by case basis. If adequate price competition is determined not to exist, the Government reserves the right to obtain certified cost or pricing data from the offeror. Based on the type of instrument proposed, use the appropriate cost proposal instructions to prepare the cost proposal. Cost proposals have no page limitations.

Please include the basis of estimate for the Phase 1 effort broken down according to the contractor work breakdown structure and correlated to the Integrated Master Schedule.

- 3) **Proposal Content Summary:** You may be ineligible for award if all requirements of this solicitation are not met on the proposal due date. Failure to provide a complete proposal may result in a determination that the proposal is non-responsive and may be eliminated from consideration for award.

7. PROPOSAL REVIEW AND EVALUATION PROCEDURES:

- a. **Criteria:** The selection of an offeror for award will be based on an evaluation of each offeror's proposal to determine the overall merit of the proposal in response to this announcement. Proposals will be evaluated in accordance with FAR 35.016. The proposals will be evaluated utilizing a peer or scientific review process and shall be evaluated based on the following criteria that are listed in descending order of importance:

- i. **Technical:**

- 1) Overall scientific and technical merits of the proposal;
- 2) Importance to AFRL RV programs;
- 3) Affordability.

- ii. **Cost/Price:** Cost/Price includes the reasonableness and realism of the proposed cost and fee and consideration of proposed budgets and funding profiles. Cost/Price is a substantial factor, but ranked as the second order of priority. (If an offeror proposes the use of Government Furnished Property (GFP), and that proposed GFP provides the offeror an unfair competitive advantage, then FAR 45.202 requires rental equivalent be applied to the Cost Factor for evaluation purposes only).
- iii. **Proposal Risk Assessment:** Proposal risk for technical, cost, and schedule will be assessed as part of the evaluation of the above evaluation criteria. Proposal risk relates to the identification and assessment of the risks associated with an offeror's

proposed approach as it relates to accomplishing the proposed effort. Tradeoffs of the assessed risk will be weighed against the potential payoff.

8. REVIEW AND SELECTION PROCESS

The technical and cost proposals will be evaluated at the same time and categorized as follows:

- a. **Category I:** Proposal is well conceived, scientifically and technically sound, pertinent to the program goals and objectives, and offered by a responsible contractor with the competent scientific and technical staff and supporting resources needed to ensure satisfactory program results. Proposals in Category I are recommended for acceptance (subject to availability of funds) and normally are displaced only by other Category I proposals.
- b. **Category II:** Proposal is scientifically or technically sound, requiring further development and is recommended for acceptance, but at a lower priority than Category I.
- c. **Category III:** Proposal is not technically sound or does not meet agency needs.

9. AWARD ADMINISTRATION INFORMATION

- a. **Award Notice:** Offerors will be notified whether their proposal is recommended for award, by letter or e-mail. An award recommendation is not to be construed to mean the award of a contract is assured, as availability of funds and successful negotiations are prerequisites to any award.
- b. **Debriefings:** When requested, a debriefing will be provided. The debriefing process will follow the guidelines set out in FAR 15.505 and 15.506.

10. OTHER INFORMATION

- a. Organizational Conflict of Interest may apply to this action but cannot be determined prior to issuance of this announcement. This issue and the need for applicable clauses will be resolved prior to the award of any contract resulting from an offeror's proposal.
- b. **Support Contractors:** Offerors are advised that data included in the technical and cost/business proposals submitted to the Government in response to this BAA may be released to non-Government advisors for review and analysis. Any non-Government advisors will strictly serve in an advisory capacity only to the Government evaluators. Non-Government advisors will have appropriate Organizational Conflict of Interest clauses in their contracts with AFRL and will initiate any required Non-Disclosure Agreements. All offerors must clearly indicate in their proposals if they have any objections or concerns regarding the use of non-Government advisors. Offerors will be contacted prior to the release of a proposal to a non-Government advisor.
- c. **Wide Area Work Flow Notice:** Any contract award resulting from this announcement will contain the clause at DFARS 252.232-7003, Electronic Submission of Payment Requests, which requires electronic submission of all payment requests. The clause cites three possible electronic formats through which to submit electronic payment requests. Effective 01 October 2006, the Department of Defense adopted Wide Area Work Flow-Receipt and Acceptance (WAWF-RA), as the electronic format for submission of electronic payment requests. Any contract resulting from this announcement will establish a requirement to use WAWF-RA for invoicing and receipt/acceptance, and provide coding instructions applicable to this contract. Contractors are encouraged to take advantage of available training (both web-based and through your cognizant DCMA office), and to register in the WAWF-RA system.

Information regarding WAWF-RA, including the web-based training and registration, can be found at <https://wawf.eb.mil/>.

- d. **Item Identification and Valuation:** Any contract award resulting from this announcement may contain the clause at DFARS 252.211-7003, Item Identification and Valuation, (Aug 2008) which requires unique item identification and valuation of any deliverable item for which the Government's unit acquisition cost is \$5,000 or more; subassemblies, components, and parts embedded within an item valued at \$5,000 or more; or items for which the Government's unit acquisition cost is less than \$5,000 when determined necessary by the requiring activity for serially managed, mission essential, or controlled inventory. Also included are any DoD serially managed subassembly, component, or part embedded within a delivered item and the parent item that contains the embedded subassembly, component, or part. Per DFARS 211.274-3 policy for valuation, it is DoD policy that contractors shall be required to identify the Government's unit acquisition cost for all items delivered, even if none of the criteria for placing a unique item identification mark applies. Therefore, your proposal must clearly break out the unit acquisition cost for any deliverable items. Per DFARS 211.274-3 policy for valuation, "the Government's unit acquisition cost is the contractor's estimated fully burdened unit cost at time of delivery to the Government for cost type or undefinitized line, subline, or exhibit line items" (per DoD, "fully burdened unit costs" to the Government would include all direct, indirect, G&A costs, and an appropriate portion of fee.). If you have questions regarding the unique item identification requirements, please contact the contracting point of contact listed above. For more information, see the following website: <http://www.acq.osd.mil/dpap/uid/>. The contract will also include DFARS 252.211-7007, Reporting of Government-Furnished Equipment in the DoD Item Unique Identification (IUID) Registry IAW the clause. For more information, see the following website: <https://www.bpn.gov/iuid>
- e. **Forward Pricing Rate Agreements:** Offerors who have forward pricing rate agreements (FPRA's) and forward pricing rate recommendations (FPRR's) should submit them with their cost proposal.
- f. **Limitations on Pass-Through Charges.** As prescribed in FAR 15.408(n)(1) & 15.408(n)(2), provisions 52.215-22, "Limitations on Pass Through Charges – Identification of Subcontract Effort (Oct 2009)," and 52.215-23, "Limitations on Pass-Through Charges (Oct 2009)," are contained in this solicitation. Any contract valued greater than the threshold for cost or pricing data threshold, except fixed price contracts awarded on the basis of adequate price competition, resulting from this solicitation, shall contain the Clause at FAR 52.215-23 (or Alt I).
- g. **Post-Award Small Business Program Representation:** As prescribed in FAR 19.308, FAR Clause 52.219-28, "Post-Award Small Business Program Representation (Apr 2009)," is incorporated by reference in this solicitation. This clause will be contained in any contracts resulting from this solicitation. This clause requires a contractor to represent its size status when certain conditions apply. The clause provides detail on when the representation must be complete and what the contractor must do when a representation is required.
- h. **Notice to Large Business on Small Business Objectives:** The Government anticipates that certain portions of this effort could be subcontracted to small businesses in order to meet the statutory goals. Large businesses should consider, to the highest extent possible, subcontracted opportunities with small businesses. For proposed awards to be made as contracts (that exceed \$650,000) to other than small businesses, Subcontracting Plans will be required in accordance with the requirements set forth in FAR 19.704, Subcontracting Plan requirements, and DFARS 219.704. As such, Subcontracting Plans will be evaluated to ensure that submissions are compliant with FAR Subpart 19.7.

For proposed Subcontracting Plans that are below the statutory goals, the offeror will provide additional information which demonstrates how it intends to provide meaningful subcontracting opportunities and rationale to why the goals were not attainable.

Subcontracting FY 2011

Small Business - 36.7%

HUBZone SB - 3.0%

Sev-Disabled Vet - 3.0%

S Disadvantaged - 5.0%

Women-Owned SB - 5.0%

- i. **Indirect Cost Limitation for Basic Research Awards Notice:** The purpose of this notice is to make offerors aware of the Indirect Cost Limitation for Basic Research Awards as originally set forth in Section 8115 of the Department of Defense Appropriations Act, 2008 (P.L. 110-116) and subsequently included in following year Appropriation Acts. Section 8115 of the DoD Appropriations Act of 2008 (and subsequent Acts) limits payments of negotiated indirect cost rates on contracts, grants, and cooperative agreements (or similar arrangements), which are funded with FY 2008, FY 2009 and FY 2010 Basic Research appropriations and are awarded on or after November 14, 2007, to not more than 35 percent of the total cost of the contract. This limitation also applies to any new award made by another Federal agency to a non-Federal entity on behalf of the DoD using FY 2008, FY 2009 and FY 2010 Basic Research appropriations. The DoD Appropriations Act of 2011 (P.L. 112-10, Div A) does not carry forward a limitation to reimbursement of indirect costs under grants, cooperative agreements, contracts, or similar arrangements using Basic Research funds.
- j. **Employment Eligibility Verification:** As prescribed by FAR 22.1803, FAR Clause 52.222-54, "Employment Eligibility Verification (Jan 2009)," is hereby incorporated by reference in this solicitation. Any contract awarded as a result of this BAA that is above the Simplified Acquisition Threshold, and contains a period of performance greater than 120 days, shall include this clause in its contract. This clause provides the requirement of contractors to enroll as a Federal Contractor in the E-Verify program within 30 days after contract award.
- k. **Reporting Executive Compensation and First-Tier Sub-contract/Sub-recipient Awards:** As prescribed by FAR 4.1403(a), FAR 52.204-10, "Reporting Executive Compensation and First-Tier Subcontract Awards," is hereby incorporated by reference in this solicitation. Any contract valued at \$25,000 or more, excluding classified contracts or contractors with individuals, must contain this clause. Any grant or agreement award resulting from this announcement may contain the award term set forth in 2 CFR, Appendix A to Part 25 found at: <http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=c55a4687d6faa13b137a26d0eb436edb&rqn=div5&view=text&node=2:1.1.1.4.1&idno=2#2:1.1.1.4.1.2.1.1>.

11. ATTACHMENTS:

- 1. Section K, Representations & Certifications
- 2. Proposal Content Checklist
- 3. FAR Cost Proposal Instructions
- 4. Air Force Proposal Adequacy Checklist (AFPAC)
- 5. Contract Data Requirements Lists (CDRLs), DD Form 1423, A001-A009, *Draft*

**AIR FORCE RESEARCH LABORATORY
SPACE VEHICLES DIRECTORATE
BROAD AGENCY ANNOUNCEMENT, BAA-RV-12-06
REPRESENTATIONS AND CERTIFICATIONS**

NOTICE: The following solicitation provisions are in addition to the representations and certifications in ORCA

A. FEDERAL ACQUISITION REGULATION SOLICITATION PROVISIONS BY REFERENCE

- 52.204-7 --Central Contractor Registration (Apr 2008)
- 52.215-22 -- Limitations on Pass-Through Charges—Identification of Subcontract Effort (Oct 2009)
- 52.215-23 -- Limitations on Pass-Through Charges (Oct 2009)
- 52.225-13 -- Restrictions on Certain Foreign Purchases (June 2008)
- 52.233-2 -- Service of Protest (Sep 2006)
- 52.242-1 -- Notice of Intent to Disallow Costs (Apr 1984)
- 52.252-1 -- Solicitation Provisions Incorporated by Reference (Feb 1998)

B. FEDERAL ACQUISITION REGULATION SOLICITATION PROVISIONS IN FULL TEXT

52.204-08 Annual Representations and Certifications (Nov 2011)

(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 clause at 52.204-7, Central Contractor Registration, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the clause at 52.204-7 is not included in this solicitation, and the offeror is currently registered in CCR, and has completed the ORCA 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 ORCA 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 clause at 52.204-7, Central Contractor Registration.

(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, or 2010.

(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, Alternate I, and Alternate II) 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 \$67,826, the provision with its Alternate II 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 Engaging in Sanctioned Activities Relating to Iran— 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 Online Representations and Certifications Application (ORCA) website at <http://orca.bpn.gov>. After reviewing the ORCA 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 ORCA.

52.209-02 Prohibition On Contracting With Inverted Domestic Corporations -- Representation (May 2011)

(a) *Definitions.* “Inverted domestic corporation” and “subsidiary” have the meaning given in the clause of this contract entitled Prohibition on Contracting with Inverted Domestic Corporations (52.209-10).

(b) *Relation to Internal Revenue Code.* An inverted domestic corporation as herein defined does not meet the definition of an inverted domestic corporation as defined by the Internal Revenue Code at 26 U.S.C. 7874.

(c) *Representation.* By submission of its offer, the offeror represents that—

(1) It is not an inverted domestic corporation: and

(2) It is not a subsidiary of an inverted domestic corporation.

52.209-07 Information Regarding Responsibility Matters (Jan 2011)

NOTE: Only applicable if the resultant contract is going to exceed \$500K

(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 proceeding 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 Central Contractor Registration database at <http://www.ccr.gov> (see 52.204-7).

C. DEFENSE FAR SUPP SOLICITATION PROVISIONS IN FULL TEXT

252.203-7005 Representation Relating to Compensation of Former DoD Officials (Nov 2011)

As prescribed in [203.171-4\(b\)](#), insert the following provision:

(a) *Definition.* “Covered DoD official” is defined in the clause at [252.203-7000](#), Requirements Relating to Compensation of Former DoD Officials.

(b) By submission of this offer, the offeror represents, to the best of its knowledge and belief, that all covered DoD officials employed by or otherwise receiving compensation from the offeror, and who are expected to undertake activities on behalf of the offeror for any resulting contract, are presently in compliance with all post-employment restrictions covered by 18 U.S.C. 207, 41 U.S.C. 2101-2107, and 5 CFR parts 2637 and 2641, including Federal Acquisition Regulation 3.104-2.

(End of provision)

252.204-7004 Alternate A, Central Contractor Registration (Sep 2007)

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

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

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

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

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

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

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

“Registered in the CCR database” means that—

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

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

(3) The Government has validated all mandatory data fields, to include validation of the Taxpayer Identification Number (TIN) with the Internal Revenue Service, and has marked the records “Active.” The Contractor will be required to provide consent for TIN validation to the Government as part of the CCR registration process.

252.204-7007 Alternate A, Annual Representations and Certifications (Nov 2011)

As prescribed in 204.1202, substitute the following paragraph (d) and (e) for paragraph (d) of the provision at FAR 52.204-8:

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

(i) [252.209-7001](#), Disclosure of Ownership or Control by the Government of a Terrorist Country. Applies to all solicitations expected to result in contracts of \$150,000 or more.

(ii) [252.209-7005](#), Reserve Officer Training Corps and Military Recruiting on Campus. Applies to all solicitations and contracts with institutions of higher education.

(iii) [252.216-7003](#), Economic Price Adjustment—Wage Rates or Material Prices Controlled by a Foreign Government. Applies to fixed-price supply and service contracts when the contract is to be performed wholly or in part in a foreign country, and a foreign government controls wage rates or material prices and may during contract performance impose a mandatory change in wages or prices of materials.

(iv) [252.225-7042](#), Authorization to Perform. Applies to all solicitations when performance will be wholly or in part in a foreign country.

(v) [252.229-7003](#), Tax Exemptions (Italy). Applies to solicitations and contracts when contract performance will be in Italy.

(vi) [252.229-7005](#), Tax Exemptions (Spain). Applies to solicitations and contracts when contract performance will be in Spain.

(vii) [252.247-7022](#), Representation of Extent of Transportation by Sea. Applies to all solicitations except those for direct purchase of ocean transportation services or those with an anticipated value at or below the simplified acquisition threshold.

(2) The following representations or certifications in ORCA are applicable to this solicitation as indicated by the Contracting Officer: *[Contracting Officer check as appropriate.]*

___ (i) [252.209-7002](#), Disclosure of Ownership or Control by a Foreign Government.

___ (ii) [252.225-7000](#), Buy American Act—Balance of Payments Program Certificate.

___ (iii) [252.225-7020](#), Trade Agreements Certificate.

___ Use with Alternate I.

___ (iv) [252.225-7022](#), Trade Agreements Certificate—Inclusion of Iraqi End Products.

___ (v) [252.225-7031](#), Secondary Arab Boycott of Israel.

___ (vi) [252.225-7035](#), Buy American Act—Free Trade Agreements—Balance of Payments Program Certificate.

___ Use with Alternate I.

___ Use with Alternate II.

___ Use with Alternate III.

(e) The offeror has completed the annual representations and certifications electronically via the Online Representations and Certifications Application (ORCA) website at <https://www.acquisition.gov/>. After reviewing the ORCA 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 FAR 52.204-8(c) and paragraph (d) 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 provision 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/DFARS Provision # | 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 ORCA.

(End of provision)

252.209-7004 Subcontracting with Firms That Are Owned or Controlled by the Government of a Terrorist Country (Dec 2006)

(a) Unless the Government determines that there is a compelling reason to do so, the Contractor shall not enter into any subcontract in excess of \$30,000 with a firm, or a subsidiary of a firm, that is identified in the Excluded Parties List System as being ineligible for the award of Defense contracts or subcontracts because it is owned or controlled by the government of a terrorist country.

(b) A corporate officer or a designee of the Contractor shall notify the Contracting Officer, in writing, before entering into a subcontract with a party that is identified, on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs, as being ineligible for the award of Defense contracts or subcontracts because it is owned or controlled by the government of a terrorist country. The notice must include the name of the proposed subcontractor and the compelling reason(s) for doing business with the subcontractor notwithstanding its inclusion on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs.

252.209-7999 Representation by Corporations Regarding an Unpaid Delinquent Tax Liability or a Felony Conviction under any Federal Law (Deviation 2012-O004) (Jan 2012)

(a) In accordance with sections 8124 and 8125 of Division A of the Consolidated Appropriations Act, 2012, (Pub. L. 112-74) none of the funds made available by that Act may be used to enter into a contract with any corporation that-

(1) Has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability, where the awarding agency is aware of the unpaid tax liability, unless the agency has considered suspension or debarment of the corporation and made a determination that this further action is not necessary to protect the interests of the government.

(2) Was convicted of a felony criminal violation under any Federal law within the preceding 24 months, where the awarding agency is aware of the conviction, unless the agency has considered suspension or debarment of the corporation and made a determination that this further action is not necessary to protect the interests of the government.

(b) The Offeror represent that-

(1) It is is not a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability,

(2) It is is not a corporation that was convicted of a felony criminal violation under a Federal law within the preceding 24 months.

(End of provision)

252.227-7017 Identification And Assertion Of Use, Release, Or Disclosure Restrictions (Jan 2011)

(a) The terms used in this provision are defined in following clause or clauses contained in this solicitation—

(1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data--Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovation Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovation Research (SBIR) Program clause.

(2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovation Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovation Research (SBIR) Program clause.

(b) The identification and assertion requirements in this provision apply only to technical data, including computer software documentation, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovation Research Program, the notification and identification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.

(c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.

(d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers, shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software.

The Offeror asserts for itself, or the persons identified below, that the Government's rights to use, release, or disclose the following technical data or computer software should be restricted:

| | | | |
|--------------------|-------------|-----------------|------------------|
| Technical Data or | | | |
| Computer Software | | | Name of Person |
| to be Furnished | Basis for | Asserted Rights | Asserting |
| With Restrictions* | Assertion** | Category*** | Restrictions**** |
| (LIST)***** | (LIST) | (LIST) | (LIST) |

*For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such item, component, or process. For computer software or computer software documentation identify the software or documentation.

**Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation, development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting restrictions.

***Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).

****Corporation, individual, or other person, as appropriate.

*****Enter "none" when all data or software will be submitted without restrictions.

Date _____
 Printed Name and Title _____

 Signature _____

(End of identification and assertion)

(e) An offeror's failure to submit, complete, or sign the notification and identification required by paragraph (d) of this provision with its offer may render the offer ineligible for award.

(f) If the Offeror is awarded a contract, the assertions identified in paragraph (d) of this provision shall be listed in an attachment to that contract. Upon request by the Contracting Officer, the Offeror shall provide sufficient information to enable the Contracting Officer to evaluate any listed assertion.

252.227-7028 Technical Data Or Computer Software Previously Delivered To The Government (Jun 1995)

The Offeror shall attach to its offer an identification of all documents or other media incorporating technical data or computer software it intends to deliver under this contract with other than unlimited rights that are identical or substantially similar to documents or other media that the Offeror has produced for, delivered to, or is obligated to deliver to the Government under any contract or subcontract. The attachment shall identify—

- (a) The contract number under which the data or software were produced;
- (b) The contract number under which, and the name and address of the organization to whom, the data or software were most recently delivered or will be delivered; and
- (c) Any limitations on the Government's rights to use or disclose the data or software, including, when applicable, identification of the earliest date the limitations expire.

C. OTHER SOLICITATION PROVISIONS IN FULL TEXT

K002 Administrative Access To Proprietary Information (Aug 2005)

(a) The Air Force Research Laboratory's Directed Energy (RD) and Space Vehicles (RV) Directorates have contracted for various business and staff support services, some of which require contractors (e.g., CC&G Company LLC) to obtain administrative access to proprietary information submitted by other contractors. Administrative access is defined as "handling or having physical control over information for the sole purpose of accomplishing the administrative functions specified in this contract or order, which do not require the review, reading, or comprehension of the content of the information on the part of non-technical professionals assigned to accomplish the specified administrative tasks."

(b) The required administrative access will be granted to non-technical professionals. Examples of the administrative tasks performed include:

- (1) Assembling and organizing information for R&D case files;
- (2) Accessing library files for use by government personnel in the RD and RV Directorates; and
- (3) Handling and administration of Small Business Innovation Research proposals, contracts, contract funding and queries.

(c) Offerors shall either complete paragraph (d) below or provide written objection to administrative access. Any objection to administrative access:

(1) Shall be provided in writing to the contracting officer within 10 days of RFP (or PRDA, BAA, etc., as appropriate) issuance; and

(2) Shall include a detailed statement of the basis for the objection.

(d) I consent to administrative access, as defined above, by RD and RV business and staff support services contractors to any proprietary information submitted under this solicitation or delivered under any resulting contract.

_____ (Signature)

_____ (Name of Authorized Company Official)

K003 Certificate Of Signatory Authority (Aug 2005)

I, _____ (Name), certify that I am the
_____ (Position Title) of the Corporation named as Contractor
herein, that _____ (Name), who signed this contract on behalf of the
Contractor, was then _____ (Position Title) of said Corporation; that said contract was
duly signed for and on behalf of the said Corporation by authority of its governing body and is within the scope of
its corporate powers.

(SEAL) _____ (Signature)

_____ (Typed or printed Name and Title of Signatory)

NOTE: The name and title of the person signing the contract shall be typed or printed below the signature. If the contract is signed in a capacity other than individual, partner, owner or a president, vice-president, secretary or treasurer of a company or corporation, satisfactory evidence of the authority of the person signing to bind the principal must be furnished.

**AIR FORCE RESEARCH LABORATORY
DIRECTED ENERGY AND SPACE VEHICLES DIRECTORATES**

BAA-RV-12-06

Proposal Content Checklist

You may be ineligible for award if all requirements of this announcement are not met on the proposal due date. At a minimum, incomplete proposals will be given lower priority and, although technically acceptable, may not be awarded because of funding limitations. Offerors are required to complete the following checklist and submit with your proposal.

| Proposal Checklist | | |
|---|-------------------------|--------------------------|
| Item Description | BAA Page Ref | Prop Page Ref |
| 1. Business Section | | |
| a. ORCA FAR and DFARS Certifications completed | | |
| b. Section K Certifications and Representations have been fully completed and included. | | |
| c. Subcontracting plan (as applicable) that meet AF goals and IAW FAR 19.704. | | |
| 2. Cost Proposal | | |
| a. All proposed cost/price elements are fully supported | | |
| b. Strictly complies with proposal preparation instructions | | |
| c. Subcontractor cost/price analysis performed IAW FAR 15.404-3(b) | | |
| d. FPRA or FPRR (if applicable) | | |
| 3. Technical Proposal | | |
| a. Non-proprietary Contractor Statement of Work (CSOW) | | |
| b. Approach consistent with costs identified in cost proposal | | |
| c. Includes Program Plan | | |
| d. Does not exceed page limit | | |
| 4. Cover letter | | |
| | | |

**Det 8, AIR FORCE RESEARCH LABORATORY AFRL/PK
COST PROPOSAL INSTRUCTIONS
(FAR CONTRACTS)**

1. Offerors shall:

a. Ensure the attached DET 8 AFRL Air Force Adequacy Checklist (AFPAC) be completed and submitted as part of your proposal. In addition, it is highly recommended that you flow this checklist to your subcontractors/affiliates where certified cost and pricing data is required and that you use the elements of the AFPAC to evaluate the adequacy of a subcontractor/affiliate proposal.

You are advised that the contracting officer may determine costs associated with revising/reworking inadequate cost proposals as unreasonable, and must consider the nature and extent of any proposal inadequacies when assessing/negotiating profit.

b. Prepare and submit cost or pricing data and supporting attachments in accordance with Table 15-2 of FAR 15.408. Further, the offeror shall include the attached Air Force Proposal Adequacy checklist (AFPAC) and furnish the completed checklist as part of their proposal submission.

c. Provide these Cost Proposal Instructions to all subcontractors. Proprietary subcontractor data may be submitted directly to the Government in accordance with Proposal Preparation Instructions in this announcement.

d. Furnish Tables 1 thru 4 (examples attached) for the entire performance period (supported by rationale required by paragraph 2) in hard copy and on CD as IBM PC compatible, Microsoft Excel, to include **all cell formulas**. Include a separate Cost Element Summary by Offeror Fiscal Year (OFY) for the basic and each option or task order as proposed. Identify when the OFY begins and ends.

e. Ensure that all rate data and estimating factors used in the proposal have been submitted for review to the cognizant Defense Contract Audit Agency (DCAA) and Defense Contract Management Agency (DCMA) prior to cost proposal submission.

f. Provide copies of recent audits or Forward Pricing Rate Recommendations (FPRRs), Forward Pricing Rate Agreements (FPRAs) etc. to support proposed rates and factors and evidence to support the adequacy of accounting, estimating, and purchasing systems as applicable.

g. Provide the following information as the first page of the proposal for the **Prime and Each Subcontractor**.

- i. Name, title, telephone and fax numbers and e-mail address of offeror's point of contact
- ii. Amount proposed for basic effort and each option
- iii. Name, address and telephone number of the cognizant DCMA and DCAA offices
- iv. Name, title, signature of authorized representative
- v. Date offer is submitted and expiration date of offer
- vi. DUNS Number
- vii. CAGE Code

2. **Using the format in Table 1**, submit a cost element summary by major cost element by OFY for each contract line item (CLIN) (i.e. basic period of performance and each option (if applicable) and/or Task, etc.). The detail required for each major cost element is described below. Address all cost elements applicable to the proposed effort and provide a narrative to support the basis of estimate.

a. Direct Labor. As part of Table 1, list the proposed hours, rates, and calculated amounts for each direct labor category by OFY, by CLIN. As part of the basis of estimate narrative, provide rationale for proposed hours and labor mix, and provide the base labor rates for each category. Identify the source of the base rates and explain the methodology used to project each rate for subsequent years. If applicable, identify the proposed escalation factors applied to future estimates and rationale for the proposed factors.

Note: If temporary or part-time labor is proposed, explain the differences between the pay rates for full-time and temporary or part-time workers, and the impact of those differences on the direct rates proposed. Identify all uncompensated labor (straight time and/or overtime) included in this cost element, and explain the impact of uncompensated time on direct rates proposed.

b. Indirect Cost Rates and/or Factors. As part of Table 1, list the proposed base, rate/factor and calculated amount for each indirect cost by OFY, by CLIN. As part of the basis of estimate narrative, identify **all** indirect cost

rates/factors (such as fringe benefits, labor overhead, material overhead, G&A, Cost of Money (COM), etc.) and applicable allocation bases by OFY. If composite rates are used, provide the calculations used in deriving the composite rates. Identify the basis of proposed rates (e.g., FPRA and date of agreement, bidding rates and submission date, actual rates and effective date, billing rates and approval date, etc.).

c. Subcontracts/Interorganizational Transfers (IOTs). As part of **Table 1**, list each subcontractor/IOT cost separately by OFY by CLIN. Obtain fully disclosed cost proposals from each subcontractor and IOT (those actually performing labor hours) using the same cost element breakout required for Table 1 by OFY for each CLIN. Provide a list of anticipated subcontractors/IOTs using **Table 2**. As part of the basis of estimate narrative, IAW FAR 15.404-3(b) perform and provide evaluation results of cost/price analysis for each subcontract proposal. If subcontractors were selected on a sole-source basis, provide the rationale for this decision. Differences between the subcontractor/IOT proposed amounts and the prime contractor proposed amounts must be fully explained. If decrement factors are used, explain their development and application. If the proposed subcontractor's fee rate is higher than the Prime's fee, provide rationale as to why the subcontractor's risk is greater than the Prime's. **NOTE: Fully disclosed Subcontractor/IOT proposals (including Tables 1 thru 4) are due by the closing date identified in this announcement.**

In accordance with FAR 52.215-22, Limitations on Pass-Through Charges - Identification of Subcontract Effort: The contractor shall utilize **Table 2** to identify the cost of work to be performed by each subcontractor by contract or task order as applicable. If the offeror subcontracts more than 70 percent of the total cost of work to be performed the contractor must comply with the requirements of the provision.

d. Material/Equipment. As part of **Table 1**, list material/equipment costs by OFY by CLIN. **Using Table 4**, provide a consolidated priced summary of individual material/equipment quantities and the basis for pricing (vendor quotes, invoice prices, etc.) by OFY by CLIN. For all items proposed, identify the item and show the source, quantity and price. As part of the basis of estimate narrative, provide information regarding the rationale/methodology used to derive the proposed material/equipment estimate.

e. Travel. As part of **Table 1**, list travel costs by OFY by CLIN. **Using Table 3**, separately identify costs for travel including the purpose and number of trips, origin and destination(s), duration, and travelers per trip by OFY by CLIN. Note that Table 3 is a summary format and may be expanded to include more detailed travel rate information and calculations. As part of the basis of estimate narrative, provide a listing of all proposed travel rates (if not already provided as part of Table 3). Provide the basis for the proposed travel rates and rationale for the proposed trips.

f. Other Direct Costs (ODCs). As part of **Table 1**, list ODC costs by OFY by CLIN. As part of the basis of estimate narrative, separately identify other direct costs to include consultants. Provide rationale for proposed other direct costs. Also, provide the source, quantity, price, and rationale for each of the proposed ODCs. If proposing consultants, **provide consultant agreements** to validate proposed rates and a determination by the offeror that the rate proposed is comparable to other consultant rates for work of similar nature. Substantiate the need for proposed consultant services.

g. Cost of Money (COM). Reference paragraph 2b above. Also, refer to FAR 52.215-16, Facilities Capital Cost of Money. Provide a Form CASB-CMF which contains proposed cost of money (COM) factors, if applicable, to include a display of all individual bases for the COM amounts. **A DD Form 1861 for each OFY must be submitted if proposing COM.**

h. Fee. Reference paragraph 2b above. Identify proposed fee base and rate.

i. New Mexico Gross Receipts Tax (NMGRT). Reference paragraph 2b above. NMGRT may be applicable to the proposed effort. For assistance in determining the extent to which NMGRT may apply and applicable rates, contact the New Mexico Taxation and Revenue Department, 5301 Central Ave., NE, PO Box 8485, Albuquerque, NM 87198, (505) 841-6200, <http://www.tax.newmexico.gov/All-Taxes/Pages/Gross-Receipts-Tax.aspx>. Identify the cost elements and amounts included in the NMGRT base, if applicable. Demonstrate the method of calculating total tax dollars included in the proposal.

**TABLE 1
COST ELEMENT SUMMARY**

NOTE: THIS IS A SAMPLE TABLE - ALL OFFERORS SHOULD PROPOSE IN ACCORDANCE WITH THEIR APPROVED ACCOUNTING PRACTICES.

| COST ELEMENT | OFY 1 | OFY 1 | OFY 1 | OFY 2 | OFY 2 | OFY 2 | TOTAL | TOTAL |
|---|-------|-------|-------|-------|-------|-------|-------------|-----------------|
| | BASE | RATE | AMT | BASE | RATE | AMT | BASE AMOUNT | PROPOSED AMOUNT |
| DIRECT LABOR (List each direct labor category separately.) | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| TOTAL DIRECT LABOR | XXXX | | XXXX | XXXX | | XXXX | XXXX | XXXX |
| TOTAL LABOR OVERHEAD | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| SUBCONTRACTS, IOTS (List Separately) | | | XXXX | | | XXXX | XXXX | XXXX |
| MATERIAL | | | XXXX | | | XXXX | XXXX | XXXX |
| MATERIAL OVERHEAD | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| TRAVEL | | | XXXX | | | XXXX | XXXX | XXXX |
| ODCs (List consultants separately) | | | XXXX | | | XXXX | XXXX | XXXX |
| G&A | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| SUBTOTAL COSTS | | | XXXX | | | XXXX | XXXX | XXXX |
| COST OF MONEY (See DD Form 1861) | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| FEE | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| TOTAL COST & FEE | | | XXXX | | | XXXX | XXXX | XXXX |
| NMGRT (IF APPLICABLE) | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| TOTAL PRICE | | | XXXX | | | XXXX | XXXX | XXXX |

*Submit a cost element summary by OFY for each CLIN, basic, option and each Task Order, as appropriate, **for each year** of performance.

**TABLE 2
SUBCONTRACT/INTERORGANIZATIONAL TRANSFERS & CONSULTANTS
PRICE SUMMARY**

| SUBCONTRACTOR NAME | SUBCONTRACTOR TASKS** | SUBCONTRACT TYPE | SUBCONTRACTOR QUOTED PRICE | SUBCONTRACTOR COST AS EVALUATED BY PRIME | DIFFERENCE |
|--------------------|-----------------------|------------------|----------------------------|--|------------|
| | | | | | |
| | | | | | |
| TOTALS | | | | | |

**Identify Statement of Work or Work Breakdown Structure or provide a narrative explanation as an addendum.

**TABLE 3
TRAVEL SUMMARY**

| OFY | FROM | TO | PURPOSE | # TRIPS | # TRVLRS | # DAYS | TOTAL \$ |
|-----|------|----|---------|---------|----------|--------|----------|
| | | | | | | | |

**TABLE 4
BILL OF MATERIALS/EQUIPMENT**

| Item | OFY | Description | Qty | Unit Price | Total Price | Vendor/Source (Company Name, Website URL, Etc) | Basis of Estimate (Quote, PO, Eng Est, Etc.) |
|------|-----|-------------|-----|--------------|-------------|---|---|
| 1 | | | 1 | 0 | 0 | | |
| 2 | | | 1 | 0 | 0 | | |
| 3 | | | 1 | 0 | 0 | | |
| 4 | | | 1 | 0 | 0 | | |
| 5 | | | 1 | 0 | 0 | | |
| 6 | | | 1 | 0 | 0 | | |
| 7 | | | 1 | 0 | 0 | | |
| 8 | | | 1 | 0 | 0 | | |
| | | | | TOTAL | 0 | | |

Air Force Proposal Adequacy Checklist (AFPAC)

| ITEM # | ITEM DESCRIPTION | FAR REFERENCE | Y | N or N/A | PROVIDE EXPLANATION IF EITHER "NO or N/A" (use continuation page if necessary) | PROP REF PG |
|--------|---|----------------------------------|---|----------|--|-------------|
| 1 | Is there a properly completed first page of the proposal in accordance with Table 15-2 I.A or as specified by the Contracting Officer (CO) in the solicitation? | FAR 15.408, Table 15-2 I.A | | | | |
| 2 | Is an Index, appropriately referenced, of all cost or pricing data and information accompanying or identified in the proposal, provided? | FAR 15.408, Table 15-2 I.B | | | | |
| 3 | Are there any exceptions to submission of certified cost or pricing data pursuant to FAR 15.403-1(b)? If so, is supporting documentation included in the proposal? Refer to checklist items 15, 16 and 17. | FAR 15.403-1(b) | | | | |
| 4 | Does the proposal include EXCEL spreadsheets of all applicable tables, on CD ROM WITH FORMULAS ? | | | | | |
| 5 | Is there a TABLE 1 cost element summary by major cost element by Offeror Fiscal Year (OFY) for each contract line item (CLIN) (i.e. basic period of performance and each option (if applicable) and/or Task, etc.). (Breakdowns for each cost element must be consistent with your cost accounting system.) | FAR 15.408, Table 15-2 I.D & E | | | | |
| 6 | If more than one CLIN (Contract Line Item Number) or sub-CLIN (Sub Line Item is proposed as required by the RFP, are there summary total amounts covering all line items for each element of cost and is it cross-referenced to the supporting cost or pricing data? | FAR 15.408, Table 15-2, I. D & E | | | | |
| 7 | Is total price by cost element provided by each OFY? | | | | | |
| 8 | Are CLIN prices by cost element provided by each OFY? | | | | | |
| 9 | Are all cost element breakdowns provided using TABLE 1? | FAR 15.408, Table 15-2 | | | | |
| 10 | Does the proposal reflect all specific requirements established by the CO? | | | | | |
| 11 | If an incentive contract type, is contract geometry included (e.g. contractor proposed target cost, target profit or fee, min/max, ceiling, share ratio)? | | | | | |

| MATERIAL | | | | | |
|--|---|------------------------------|--|--|--|
| Note | Consolidated Bill of Material (CBOM). A CBOM is a consolidated priced summary of individual material quantities and subcontract items included in the various tasks, orders, or contract line items being proposed and the basis for pricing (negotiated/invoice prices, vendor quotes, average unit pricing, prior purchase history, long term agreements, etc). The offeror's CBOM shall include estimated raw materials, parts, components, assemblies, subcontracts and services to be produced or performed by others, identifying as a minimum; the item, source, quantity and cost. | | | | |
| 12 | As part of Table 1 is material/equipment listed by OFY by CLIN? | FAR 15.408, Table 15-2 II A. | | | |
| 12.1 | Is there a completed Table 4 priced summary of individual material/equipment quantities and the basis for pricing (vendor quotes, invoice prices, etc.) provided by OFY by CLIN? For all items proposed are the items, sources quantity and prices identified? Is a basis of estimated narrative provided with information regarding the rationale/methodology used to derive the proposed material/equipment estimate? | | | | |
| SUBCONTRACTS (Purchased material or services) | | | | | |
| 13 | Are fully disclosed subcontractor/IOT proposals (Including Tables 1 through 4) submitted to the government by the closing date identified in the RFP? | FAR 15.404-3(c) | | | |
| 13.1 | Is Table 2 completed identifying the cost of work to be performed by each subcontractor by contract or task order as applicable | | | | |
| 13.2 | Does the proposal include the prime contractor's evaluation and results of cost/price analysis establishing the reasonableness of each subcontract proposals? | FAR 15.404-3(b) | | | |
| Note | <i>Analyses not provided with the proposal may result in a delay to audit, fact-finding and negotiations. Analyses not included with the proposal shall be provided as soon as possible after the proposal submission date and shall be accomplished in sufficient time to support the definitization/contract award schedule.</i> | | | | |
| 13.3 | If the subcontractors were selected on a sole-source basis, is the rationale for this decision provided? | | | | |

| | | | | | |
|---------------------------------------|--|--|--|--|--|
| 13.4 | If differences between the subcontractor/IOT proposed amount and prime contractor proposed amounts exist, is the reason for the difference fully explained? | | | | |
| 13.5 | Are decrement factors development and application fully explained? | | | | |
| 13.6 | Does the proposal identify those actions where assist audits have been requested by the prime or sub-tier contractors and identify the request date and scheduled receipt date? | | | | |
| <i>Note</i> | <i>The need for assist audits resulting from proprietary data rights assertions at any tier must be identified to the CO as soon as possible in the proposal build cycle. Notwithstanding assist audits performed by the government, contractors must still perform and provide Price/Cost Analysis.</i> | | | | |
| INTERORGANIZATIONAL TRANSFERS | | | | | |
| 14 | For inter-organizational transfers proposed at cost, does the proposal include a complete fully disclosed cost proposal in compliance with Table 15-2 and this checklist? | <i>FAR 15.408, Table 15-2 II.A.(2)</i> | | | |
| <i>Note</i> | <i>Inter-organizational work is considered to be part of the certified cost or pricing data submission of the prime. As such, the prime contractor's responsibility for conducting subcontractor Cost/Price Analysis does not apply to inter-organizational transfers. However, prior to the submission of the proposal, the prime contractor shall (a) ensure that all statement of work tasks are addressed without duplication and are consistent with the overall program performance schedule and, (b) ensure ground rules and assumptions are consistent with the prime proposals.</i> | | | | |
| 15 | For inter-organizational transfers proposed at price in accordance with FAR 31.205-26(e), does the proposal provide an analysis by the prime that supports the exception from certified cost or pricing data in accordance with FAR 15.403-1 (reference checklist items 15, 16, and 17 below)? | <i>FAR 31.205-26(e), FAR 15.403-1</i> | | | |
| ADEQUATE PRICE COMPETITION | | | | | |
| 16 | Does the proposal support the degree of competition and the basis for establishing the source and reasonableness of price for each subcontract or purchase order priced on a competitive basis exceeding the threshold for certified cost or pricing data? | <i>FAR 15.408, Table 15-2 II.A.(1)</i> | | | |
| COMMERCIAL ITEM DETERMINATIONS | | | | | |

| | | | | | | |
|-------------|--|--|--|--|--|--|
| 17 | Is the contractor proposing commercial items either at the prime or subcontractor level that would be exempt from certified cost or pricing data requirements? | FAR 2.101, FAR 15.403-1 (b)(3) or (b)(5) | | | | |
| <i>Note</i> | <i>If you are modifying a commercial item or are providing a modified commercial item, there may be circumstances that require the submission of certified cost or pricing data (see Note to checklist item 17.3 below).</i> | | | | | |
| 17.1 | Has the contractor provided support for prime contractor assertions of commerciality and any subcontractor Commercial Item Determinations (CIDs) addressing, at a minimum, the following: | | | | | |
| <i>Note</i> | <i>A subcontractor CID includes the following information/data in addition to the prime contractor's independent price analysis and conclusion of the subcontractor's commerciality assertion. (checklist item 17.5.D)</i> | | | | | |
| 17.2 | Has the contractor provided a description of supplies or services and the basis for which the supply or service meets the Government's requirements? | | | | | |
| 17.3 | Has the contractor specifically identified the type of commercial item claim (FAR 2.101 commercial item sub-definitions (1) through (8)), and the basis on which the item meets the definition? | FAR 2.101 | | | | |
| 17.4 | For modified commercial items (commercial item sub definition) (3); did the contractor classify the modification(s) as either: A. Of a type customarily available in the commercial marketplace (FAR 2.101 commercial item sub-definition (3)(i)) or B. A minor modification (FAR 2.101 commercial item sub-definition (3)(ii)) of a type not customarily available in the commercial marketplace made to meet Federal Government requirements not exceeding the thresholds in FAR 15.403-1(c)(3)(iii)(B)? (see note below) | FAR 2.101 FAR 15.403-1 | | | | |
| <i>Note</i> | <i>Modifications that do not qualify as "minor" under FAR 2.101 sub-definition (3) or modifications that qualify as "minor" where the total price of all such modifications exceeds the greater of the threshold for certified cost or pricing data (FAR 15.403-4) or 5% of the total price of the contract at the time of contract award are NOT exempt from the submission of certified cost or pricing data. Where the contractor is proposing a modified commercial item, the CO should, in every case, be consulted as soon as possible before the proposal is submitted.</i> | | | | | |

| | | | | | | |
|---------------------------|--|---|--|--|--|--|
| 17.5 | Technical Assessment: For proposed commercial items “of a type”, or “evolved” or modified (FAR 2.101 commercial item sub-definitions (1) through (3)), did the contractor provide a technical description of the differences between the proposed item and the comparison item(s)? | FAR 2.101 | | | | |
| 17.6 | Price Reasonableness: Has the contractor provided, or made available, data other than certified cost or pricing data to establish price reasonableness of the proposed commercial item (to include any modifications not subject to certified cost or pricing data (ref. Note under checklist item 17.3 above) by supplying: A. Information/data related to competition (refer to checklist item 15), B. Information/data related to prices (sales data, market price assessments, etc.), C. cost data (cost elemental breakdown and supporting documentation not subject to certification in accordance with FAR 15.406-2), and D. for subcontractor assertions, the prime contractor’s price analysis/price reasonableness determination? | FAR 15.402(a)(2), FAR 15.403-1(c)(3)(ii), FAR 15.403-3(c), FAR 15.404-3(b), FAR 15.404-3(c), FAR 15.406-2 | | | | |
| Note | <i>The preferred method to establish the price reasonableness of commercial items is to obtain commercial sales data. It is recognized that other methods, such as market price assessments data or cost data not subject to certification, are also acceptable when prior sales data cannot be obtained. Sales data must (1) demonstrate sales to the general public, (2) be current and where possible, (3) in like quantities. Items sold to state, local or foreign governments or items sold with applications only to state, local, foreign government or the US government end items, are not considered to be sales to the general public unless the proposed commercial item meets the commercial item definition FAR 2.101 commercial item sub-definition (8).</i> | | | | | |
| LABOR | | | | | | |
| 18 | As part of Table 1, was a list provided of the proposed hours, rates and calculated amounts for each direct labor category by OFY by CLIN? | | | | | |
| 19 | As part of the basis of estimate narrative was rationale provided for the proposed hours and labor mix? Is the source of the base rates and methodology used to project each rate for subsequent years fully explained? Are the proposed escalation factors applied to future estimates identified and rationale for the proposed factors provided? | | | | | |
| OTHER DIRECT COSTS | | | | | | |

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|----|--|--|--|--|--|--|
| 20 | <p>Does the proposal include other direct costs and the basis for pricing by OFY by CLIN? Is there a fully completed Table 3 listing all proposed travel, by basic, each option or task order (as applicable) by OFY? If travel is discretely estimated does the proposal include number of trips, number of people, number of days per trip, locations, and rates (e.g. airfare, per diem, hotel, car rental, etc)? Does the proposal identify the basis for the proposed travel rates and rationale for the proposed trips? If consultants are proposed, does the proposal include a copy of the consultant agreements? Are the proposed consultant rates comparable to other consultant rates for work of similar nature? Is the need for the proposed consultant services substantiated?</p> | <p>FAR 15.408, Table 15-2 II.D</p> | | | | |
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| NEW CONTRACTS (INCLUDING LETTER CONTRACTS) | | | | | | |
| 21 | Does the proposal identify actual hours, and cost incurred as well as hours/cost to complete and the time phasing associated with these hours/costs? This information/data is to be provided consistent with cost element summaries as identified in checklist item 9. | FAR 15.408, Table 15-2, III | | | | |
| CHANGE ORDERS, MODIFICATIONS AND CLAIMS | | | | | | |
| 22 | If the proposal is for a modification or change order, have cost of work deleted (credits) and cost of work added (debits) been provided in the format described in FAR 15.408, Table 15-2.III.B? | FAR 15.408, Table 15-2 III.B | | | | |
| PRICE REVISIONS/REDETERMINATIONS | | | | | | |
| 23 | For price revisions/redeterminations, does the proposal follow the format in FAR 15.408, Table 15-2.III.C? | FAR 15.408, Table 15-2 III.C | | | | |
| FACILITIES COST OR MONEY | | | | | | |
| 24 | If facilities capital cost of money is proposed, does the proposal include a schedule of COM factors? submission of Form CASB-CMF or reference to an FPRP/FPRA and show the calculation of the proposed amount? | FAR 31.205-10 FAR Table 15-2,II.F | | | | |
| RATES AND FACTORS | | | | | | |
| 25 | Does the proposal include all rates and factors by year that are utilized in the development of the proposal and the basis of those rates and factors (FPRA/FPRP)? Identify the official submittal of such rate and factor data. | | | | | |
| OTHER | | | | | | |
| 26 | Does the proposal identify the location and point of contact for any certified cost or pricing data which is referenced, but not included, in the proposal? | | | | | |
| 27 | Does the proposal disclose the judgmental factors applied and the mathematical or other methods used in the estimate, including those used in projecting from known data? | FAR 15.408, Table 15-2, I.C.(2)(i) | | | | |
| 28 | Does the proposal disclose the nature and amount of any contingencies included in the proposed price? | FAR 15.408, Table 15-2 I.C.(2)(ii) | | | | |

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| 29 | If Royalties exceed \$1,500 does the proposal provide the information/data identified in FAR 15.408, Table 15-2 Paragraph II. E.? | FAR 15.408, Table 15-2 II. E. | | | | |
| 30 | If Economic Price Adjustments are being proposed, does the proposal show the rationale and application for the proposed indices? | FAR 16.203-4(a)(1) | | | | |
| 31.1 | Is the contractor proposing Performance-Based Payments? | FAR 32.10 | | | | |
| 31.2 | If so, has the contractor provided an expenditure profile, proposed events and their projected dates, proposed values for each event, completion criteria, and identification of which events are severable or cumulative? | FAR 32.10 | | | | |
| 32 | Excessive Pass-through Charges – Identification of Subcontract Effort, if the offeror intends to subcontract more than 70% of the total cost of work to be performed, does the proposal identify: (i) the amount of the offeror's indirect costs and profit applicable to the work to be performed by the subcontractor(s); and (ii) a description of the added value provided by the offeror as related to the work to be performed by the subcontractor(s)? | FAR 15.408(n) DPAP Memo 23 Dec 2009 (DARS Tracking Number 2009- 00015) | | | | |
| 33 | Does the proposal explain the basis of all cost estimating relationships (CERs) (labor hrs or material) proposed on other than a discrete basis? | | | | | |
| <i>Note</i> | <i>Calculations/formulas/logic made to generate "CER" costs should be presented with proposal.</i> | | | | | |
| 34 | Does the proposal identify the need for government furnished material/tooling/test equipment? <i>Include the lending contract number and CO contact information if known.</i> | FAR 15.408, Table 15-2, I A. (7) | | | | |
| 35 | Does the proposal include identification of any CAS non-compliances, or other estimating deficiencies that may impact the proposed price? | FAR Table 15-2.I.A.(8) | | | | |

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Form Approval OMB No. 0704-0188

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| | |
|--|--|
| A. CONTRACT LINE ITEM NO.: TBD | D. SYSTEM/ITEM.....: W/V-band Satellite Communications Experiment Phase 1 |
| B. EXHIBIT.....: A | E. CONTRACT/PR NO.: TBD |
| C. CATEGORY.....: | F. CONTRACTOR.....: TBD |
| 1. DATA ITEM NO.....: A001 | |
| 2. TITLE OF DATA ITEM.....: Presentation Material | |
| 3. SUBTITLE.....: Presentation Material | |
| 4. AUTHORITY.....: DI-ADMN-81373 | |
| 5. CONTRACT REFERENCE.....: TBD | |
| 6. REQUIRING OFFICE.....: AFRL/RVSV | 9. DIST. STATEMENT REQUIRED.....: See Block 16 |
| 7. DD250 REQ.....: No | 10. FREQUENCY.....: See Block 16 |
| 8. APP CODE.....: A | 11. AS OF DATE.....: See block 16 |
| | 12. DATE OF FIRST SUBMISSION: See Block 16 |
| | 13. DATE OF SUBSEQUENT SUBM.: See Block 16 |

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| | ACO | Lt | Lt |
| | AFRL/RVKVV | Lt | Lt |
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| | | | |
| | | | |
| 15. TOTAL: | | 1 | 1 |

16. REMARKS

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All technical data (including electronic media) shall be marked with the following statement: “DESTRUCTION NOTICE—For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.”

Blks 10 – 13: Contractor shall provide copies of presentation materials (slides) to the Government for all program meeting and program reviews to include the kick-off meeting, quarterly review meetings, technical interchange meetings, and design reviews.

The contractor shall deliver draft presentation materials 5 days prior to meetings. Revised (final) versions of review materials shall be delivered within 10 days following review meetings.

| | |
|---------------------------------------|-------------------------------------|
| 17. PRICE GROUP: | 18. ESTIMATED TOTAL PRICE : |
| G. PREPARED BY: Steven A. Lane | I. APPROVED BY: Kim Kinifick |
| H. DATE: May 14, 2012 | J. DATE: 15 May 2012 |

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)

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A. CONTRACT LINE ITEM NO.: TBD **D. SYSTEM/ITEM.....:** W/V-band Satellite Communications Experiment Phase 1
B. EXHIBIT.....: A **E. CONTRACT/PR NO.** TBD
C. CATEGORY.....: **F. CONTRACTOR.....:** TBD
1. DATA ITEM NO.....: A002
2. TITLE OF DATA ITEM.....: Status Report
3. SUBTITLE.....: Monthly Status and Execution Report
4. AUTHORITY.....: DI-MGMT-80368A
5. CONTRACT REFERENCE.....: TBD
6. REQUIRING OFFICE.....: AFRL/RVSV **9. DIST. STATEMENT REQUIRED.....:** See Block 16 **12. DATE OF FIRST SUBMISSION:** See Block 16
7. DD250 REQ.....: No **10. FREQUENCY.....:** See Block 16 **13. DATE OF SUBSEQUENT SUBM.:** See Block 16
8. APP CODE.....: N **11. AS OF DATE.....:** See block 16

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| | ACO | 0 | Lt |
| | AFRL/RVKVV | 0 | Lt |
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| | 15. TOTAL: | 0 | 1 |

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All technical data (including electronic media) shall be marked with the following statement: “DESTRUCTION NOTICE—For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.”

Blks 10 - 13:
 The contractor shall deliver monthly status and execution reports within 10 days following the first 30 days of the technical period of performance, and every 30 days thereafter through the technical period of performance.

17. PRICE GROUP: **18. ESTIMATED TOTAL PRICE :**
G. PREPARED BY: Steven A. Lane **I. APPROVED BY:** Kim Kinifick
H. DATE: May 14, 2012 **J. DATE:** 15 May 2012

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)

Form Approval OMB No. 0704-0188

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| | |
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| A. CONTRACT LINE ITEM NO.: TBD | D. SYSTEM/ITEM.....: W/V-band Satellite Communications Experiment Phase 1 |
| B. EXHIBIT.....: A | E. CONTRACT/PR NO.: TBD |
| C. CATEGORY.....: | F. CONTRACTOR.....: TBD |
| 1. DATA ITEM NO.....: A003 | |
| 2. TITLE OF DATA ITEM.....: Scientific and Technical Report and Checklist | |
| 3. SUBTITLE.....: Final Technical Report | |
| 4. AUTHORITY.....: DI-MISC-80711A | |
| 5. CONTRACT REFERENCE.....: TBD | |
| 6. REQUIRING OFFICE.....: AFRL/RVSV | 9. DIST. STATEMENT REQUIRED.....: See Block 16 |
| 7. DD250 REQ.....: Yes | 10. FREQUENCY.....: See Block 16 |
| 8. APP CODE.....: A | 11. AS OF DATE.....: See block 16 |
| | 12. DATE OF FIRST SUBMISSION: See Block 16 |
| | 13. DATE OF SUBSEQUENT SUBM.: See Block 16 |

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| | ACO | Lt | Lt |
| | AFRL/RVKVV | Lt | Lt |
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| | 15. TOTAL: | 1 | 1 |

16. REMARKS

THE REPORT WILL BE PUBLISHED WITH THE DEFENSE TECHNICAL INFORMATION CENTER (DTIC) BY AFRL STINFO OFFICE. Under no circumstances shall the contractor submit either the final report or the camera-ready technical report to DTIC.

Blk 4: GUIDANCE FOR PREPARATION OF THE REPORT: The Scientific and Technical Report shall be prepared I.A.W. the most current AFRL ANSI/NISO Standard Z39.18-2005 located at: <http://www.kirtland.af.mil/prs>. If the Final Report contains data that is being delivered with company proprietary data rights IAW data rights assertions in this contract, the company proprietary data rights material shall be delivered as a separate, appropriately-marked Volume* to the Final Report.

The contractor shall complete and submit an SF 298 Report Documentation Page, with the final report. The SF 298 is available at: <http://www.kirtland.af.mil/shared/media/document/AFD-070425-037.doc>. The contractor shall complete the following blocks of the SF298: Blocks 2-5a, 6, 7, 8 and 13 (if applicable), 14-16c.

The contractor shall complete and sign the most current AFRL Form 25, AFRL Quality Final Technical Report Checklist, and submit it with the final report. The checklist is available at: <http://www.kirtland.af.mil/prs>. If the completed and signed AFRL Form 25 does not accompany the final report, the deliverable is considered incomplete. Incomplete final reports will be immediately returned to the contractor. Following AFRL technical and STINFO reviews, any revisions required may be returned to the contractor.

The contractor shall deliver editable electronic copies of the final report. The electronic copies shall be an editable .pdf file and the most current version of Microsoft Word. A CD-ROM (CD-R) is the acceptable media for submittal. (CD-RWs are not acceptable.) Electronic media shall be marked IAW the AFRL ANSI/NISO Standard Z39.18-2005 guidelines. Submission via unencrypted or unsecure email is not permitted.

Blk 7: Submit Final Report with letter of transmittal and the DD 250 to the designated project manager. In preparing the final DD 250 for the contract, code the shipment number with a "Z".

Blk 9: All technical data containing unlimited rights data (including electronic media) shall be marked I.A.W. DoDD 5230.24 with Distribution Statement C : "Distribution authorized to U.S. Government agencies and their contractors; Critical Technology, [author fill in date of report (MMDDYYYY)]. Other requests for this document shall be referred to AFRL/RVSV, 3550 Aberdeen Avenue, SE, Kirtland AFB, NM 87117-5776." **Note: ADD THIS ENTIRE DISTRIBUTION STATEMENT TO THE BOTTOM OF EVERY PAGE OF THE REPORT EXCEPT THE SF298.**

*Any Volume containing company proprietary data rights material (including electronic media) shall be marked I.A.W. DoDD 5230.24 with Distribution Statement [must enter B or E here]: Distribution authorized to [fill in statement]; Proprietary Information: DFARS [insert type] Data Rights: [author fill in date of report (dd mmm yy)]. Other requests for this document shall be referred to AFRL/RVSV, 3550 Aberdeen Avenue, SE, Kirtland AFB, NM 87117-5776. **ADD THIS ENTIRE DISTRIBUTION STATEMENT TO THE BOTTOM OF EVERY PAGE OF THE VOLUME THAT CONTAINS COMPANY PROPRIETARY DATA, EXCEPT THE SF298.**

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All technical data (including electronic media) shall be marked with the following statement: "DESTRUCTION NOTICE—For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document."

Blks 10 - 13: The contractor shall deliver the Scientific and Technical Report, in final format, no later than the date specified in the Schedule, CLIN TBD. The USAF will review and, if necessary, return the final report with comments no later than the date specified in the schedule. If the report is returned to the contractor with comments, the contractor shall deliver the camera-ready copy of the report no later than the date specified in the schedule.

NOTE: Headings in Block 14B, Copies, have been changed. "Draft" is changed to "Final" and "Final" (in second column) is changed to "CRC" (camera-ready copy).

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|---------------------------------------|-------------------------------------|
| 17. PRICE GROUP: | 18. ESTIMATED TOTAL PRICE : |
| G. PREPARED BY: Steven A. Lane | I. APPROVED BY: Kim Kinifick |
| H. DATE: May 14, 2012 | J. DATE: 15 May 2012 |

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)

Form Approval OMB No. 0704-0188

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| A. CONTRACT LINE ITEM NO.: TBD | D. SYSTEM/ITEM.....: W/V-band Satellite Communications Experiment Phase 1 |
| B. EXHIBIT.....: A | E. CONTRACT/PR NO.: TBD |
| C. CATEGORY.....: | F. CONTRACTOR.....: TBD |
| 1. DATA ITEM NO.....: A004 | |
| 2. TITLE OF DATA ITEM.....: Integrated Master Schedule | |
| 3. SUBTITLE.....: Integrated Master Schedule | |
| 4. AUTHORITY.....: DI-MGMT-81650 | |
| 5. CONTRACT REFERENCE.....: TBD | |
| 6. REQUIRING OFFICE.....: AFRL/RVSV | 9. DIST. STATEMENT REQUIRED.....: See Block 16 |
| 7. DD250 REQ.....: No | 10. FREQUENCY.....: See Block 16 |
| 8. APP CODE.....: N | 11. AS OF DATE.....: See block 16 |
| | 12. DATE OF FIRST SUBMISSION: See Block 16 |
| | 13. DATE OF SUBSEQUENT SUBM.: See Block 16 |

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| | ACO | 0 | Lt |
| | AFRL/RVKVV | 0 | Lt |
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| 15. TOTAL: | | 0 | 1 |

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Blks 10 - 13:
 A simplified IMS will be tailored for this program.
 The project baselined will be defined upon contract award.
 Earned Value Management will not be required for this program.
 Microsoft Project format is recommended.
 The contractor shall deliver an updated IMS within 10 days following the first 30 days of the technical period of performance, and every 30 days thereafter through the technical period of performance.

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|---------------------------------------|-------------------------------------|
| 17. PRICE GROUP: | 18. ESTIMATED TOTAL PRICE : |
| G. PREPARED BY: Steven A. Lane | I. APPROVED BY: Kim Kinifick |
| H. DATE: May 14, 2012 | J. DATE: 15 May 2012 |

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)

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| A. CONTRACT LINE ITEM NO.: TBD | D. SYSTEM/ITEM.....: W/V-band Satellite Communications Experiment Phase 1 |
| B. EXHIBIT.....: A | E. CONTRACT/PR NO.: TBD |
| C. CATEGORY.....: | F. CONTRACTOR.....: TBD |
| 1. DATA ITEM NO.....: A005 | |
| 2. TITLE OF DATA ITEM.....: Management Plan | |
| 3. SUBTITLE.....: Risk Assessment and Management Plan | |
| 4. AUTHORITY.....: DI-MGMT-80004A | |
| 5. CONTRACT REFERENCE.....: TBD | |
| 6. REQUIRING OFFICE.....: AFRL/RVSV | 9. DIST. STATEMENT REQUIRED.....: See Block 16 |
| 7. DD250 REQ.....: No | 10. FREQUENCY.....: See Block 16 |
| 8. APP CODE.....: N | 11. AS OF DATE.....: See block 16 |
| | 12. DATE OF FIRST SUBMISSION: See Block 16 |
| | 13. DATE OF SUBSEQUENT SUBM.: See Block 16 |

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| | ACO | 0 | Lt |
| | AFRL/RVKVV | 0 | Lt |
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| 15. TOTAL: | | 0 | 1 |

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Blks 10 - 13:
The Risk Assessment and Management Plan will be tailored for this program.

The contractor shall deliver an updated Risk Assessment and Management Plan 5 days prior to quarterly review meeting and the Preliminary Design Review meeting.

| | |
|---------------------------------------|-------------------------------------|
| 17. PRICE GROUP: | 18. ESTIMATED TOTAL PRICE : |
| G. PREPARED BY: Steven A. Lane | I. APPROVED BY: Kim Kinifick |
| H. DATE: May 14, 2012 | J. DATE: 15 May 2012 |

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)

Form Approval OMB No. 0704-0188

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| | |
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| A. CONTRACT LINE ITEM NO.: TBD | D. SYSTEM/ITEM.....: W/V-band Satellite Communications Experiment Phase 1 |
| B. EXHIBIT.....: A | E. CONTRACT/PR NO.: TBD |
| C. CATEGORY.....: | F. CONTRACTOR.....: TBD |
| 1. DATA ITEM NO.....: A006 | |
| 2. TITLE OF DATA ITEM.....: Conceptual Design Drawings / Models | |
| 3. SUBTITLE.....: System Design Description | |
| 4. AUTHORITY.....: DI-SESS-81001D | |
| 5. CONTRACT REFERENCE.....: TBD | |
| 6. REQUIRING OFFICE.....: AFRL/RVSV | 9. DIST. STATEMENT REQUIRED.....: See Block 16 |
| 7. DD250 REQ.....: No | 10. FREQUENCY.....: See Block 16 |
| 8. APP CODE.....: A | 11. AS OF DATE.....: See block 16 |
| | 12. DATE OF FIRST SUBMISSION: See Block 16 |
| | 13. DATE OF SUBSEQUENT SUBM.: See Block 16 |

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| | AFRL/RVKVV | Lt | Lt |
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| 15. TOTAL: | | 1 | 1 |

16. REMARKS

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Blks 10 - 13:
The System Design Descriptions will be tailored for this program.

The contractor shall deliver a draft System Design Description document (Microsoft Word format recommended) 5 days prior to the Preliminary Design Review. A revised (final) version of the System Design Description document shall be delivered within 10 days following the Preliminary Design Review.

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| 17. PRICE GROUP: | 18. ESTIMATED TOTAL PRICE : |
| G. PREPARED BY: Steven A. Lane | I. APPROVED BY: Kim Kimifick |
| H. DATE: May 14, 2012 | J. DATE: 15 May 2012 |

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)

Form Approval OMB No. 0704-0188

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| A. CONTRACT LINE ITEM NO.: TBD | D. SYSTEM/ITEM.....: W/V-band Satellite Communications Experiment Phase 1 |
| B. EXHIBIT.....: A | E. CONTRACT/PR NO.: TBD |
| C. CATEGORY.....: | F. CONTRACTOR.....: TBD |
| 1. DATA ITEM NO.....: A007 | |
| 2. TITLE OF DATA ITEM.....: Test Plan | |
| 3. SUBTITLE.....: Experiment Plan | |
| 4. AUTHORITY.....: DI-NDTI-80566A | |
| 5. CONTRACT REFERENCE.....: TBD | |
| 6. REQUIRING OFFICE.....: AFRL/RVSV | 9. DIST. STATEMENT REQUIRED.....: See Block 16 |
| 7. DD250 REQ.....: No | 10. FREQUENCY.....: See Block 16 |
| 8. APP CODE.....: A | 11. AS OF DATE.....: See block 16 |
| | 12. DATE OF FIRST SUBMISSION: See Block 16 |
| | 13. DATE OF SUBSEQUENT SUBM.: See Block 16 |

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| | AFRL/RVKVV | Lt | Lt |
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| 15. TOTAL: | | 1 | 1 |

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Blks 10 - 13:
The Experiment Plan will be tailored for this program.

The contractor shall deliver a draft Experiment Plan document (Microsoft Word format recommended) 5 days prior to the Preliminary Design Review. A revised (final) version of the Experiment Plan document shall be delivered within 10 days following the Preliminary Design Review.

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| 17. PRICE GROUP: | 18. ESTIMATED TOTAL PRICE : |
| G. PREPARED BY: Steven A. Lane | I. APPROVED BY: Kim Kinifick |
| H. DATE: May 14, 2012 | J. DATE: 15 May 2012 |

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)

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| A. CONTRACT LINE ITEM NO.: TBD | D. SYSTEM/ITEM.....: W/V-band Satellite Communications Experiment Phase 1 |
| B. EXHIBIT.....: A | E. CONTRACT/PR NO.: TBD |
| C. CATEGORY.....: | F. CONTRACTOR.....: TBD |
| 1. DATA ITEM NO.....: A008 | |
| 2. TITLE OF DATA ITEM.....: Interface Requirements Specification | |
| 3. SUBTITLE.....: Interface Definition | |
| 4. AUTHORITY.....: DI-IPSC-81434A | |
| 5. CONTRACT REFERENCE.....: TBD | |
| 6. REQUIRING OFFICE.....: AFRL/RVSV | 9. DIST. STATEMENT REQUIRED.....: See Block 16 |
| 7. DD250 REQ.....: No | 10. FREQUENCY.....: See Block 16 |
| 8. APP CODE.....: A | 11. AS OF DATE.....: See block 16 |
| | 12. DATE OF FIRST SUBMISSION: See Block 16 |
| | 13. DATE OF SUBSEQUENT SUBM.: See Block 16 |

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| 15. TOTAL: | | 1 | 1 |

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The Interface Definition will be tailored for this program.

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| 17. PRICE GROUP: | 18. ESTIMATED TOTAL PRICE : |
| G. PREPARED BY: Steven A. Lane | I. APPROVED BY: Kim Kinifick |
| H. DATE: May 14, 2012 | J. DATE: 15 May 2012 |

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| A. CONTRACT LINE ITEM NO.: TBD | D. SYSTEM/ITEM.....: W/V-band Satellite Communications Experiment Phase 1 |
| B. EXHIBIT.....: A | E. CONTRACT/PR NO.: TBD |
| C. CATEGORY.....: | F. CONTRACTOR.....: TBD |
| 1. DATA ITEM NO.....: A009 | |
| 2. TITLE OF DATA ITEM.....: Technical Report-Study/Services | |
| 3. SUBTITLE.....: Environment Definition | |
| 4. AUTHORITY.....: DI-MISC-80508B | |
| 5. CONTRACT REFERENCE.....: TBD | |
| 6. REQUIRING OFFICE.....: AFRL/RVSV | 9. DIST. STATEMENT REQUIRED.....: See Block 16 |
| 7. DD250 REQ.....: No | 10. FREQUENCY.....: See Block 16 |
| 8. APP CODE.....: A | 11. AS OF DATE.....: See block 16 |
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| 17. PRICE GROUP: | 18. ESTIMATED TOTAL PRICE : |
| G. PREPARED BY: Steven A. Lane | I. APPROVED BY: Kim Kinifick |
| H. DATE: May 14, 2012 | J. DATE: 15 May 2012 |