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Section B - Supplies or Services and Prices

ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT (b)(4)0001 (b)(Months (b)(4)STTR Ph I Research & Development The Contractor shall perform research and development efforts IAW its Technical Proposal #B11B-004-0014, Title: "Dual S & C-Band Telemetry Transmitter System for Missile Testing", Dated: 09-28-2011. FOB: Destination PURCHASE REQUEST NUMBER: HQ0147213832 (b)(4)NET AMT ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 000101 Lot \$0.00 NTE Information Funding for SLIN 0001 FFP FOB: Destination PURCHASE REQUEST NUMBER: HQ0147213832 **NET AMT** \$0.00 ACRN AA (b)(4)CIN: HQ0147213832000101

HQ0147-12-C-7085

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(b)(4) ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE 0002 Each (b)(4)STTR Phase I Midterm Report Provide the Phase I Midterm Report IAW Data Item No. A002 of Exhibit A, DD Form 1423-1, Contract Data Requirements List. FOB: Destination PURCHASE REQUEST NUMBER: HQ0147213832 (b)(4)NET AMT ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 000201 Lot \$0.00 NTE Information funding SLIN for CLIN 0002 FFP FOB: Destination PURCHASE REQUEST NUMBER: HQ0147213832

NET AMT

\$0.00

(b)(4)

ACRN AA

CIN: HQ0147213832000201

Page 4 of 35

TEM NO 0003 SUPPLIES/SERVICES

QUANTITY (b)(UNIT

(b)(4)

AMOUNT (b)(4)

STTR Phase I Final Report

FFP

Provide the Phase I Final Report IAW Data Item No. A003 of Exhibit A, DD Form

1423-1, Contract Data Requirements List.

FOB: Destination

PURCHASE REQUEST NUMBER: HQ0147213832

NET AMT

(b)(4)

ITEM NO 000301 SUPPLIES/SERVICES

QUANTITY

UNIT Lot UNIT PRICE

AMOUNT \$0.00 NTE

Information Funding SLIN for CLIN 0003

FFP

FOB: Destination

PURCHASE REQUEST NUMBER: HQ0147213832

NET AMT

\$0.00

ACRN AA

CIN: HQ0147213832000301

(b)(4)

HQ0147-12-C-7085

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ITEM NO	SUPPLIES/SERVICES	QUANTITY (b)(UNIT	(b)(4)	(b)(4)
0004	STTR Phase I Final Repor			CACA	V. N. J.
	Provide the Phase I Report A001 of Exhibit A, DD For FOB: Destination PURCHASE REQUEST 1	orm 1423-1, Contr	act Data Requi		
				NET AMT	(b)(4)
1TEM NO 000401	SUPPLIES/SERVICES	QUANTITY	UNIT Lat	UNIT PRICE	AMOUNT \$0.00 NTE
	Information Funding SLIN	of the CLIN 0004			3443
	POB: Destination PURCHASE REQUEST?	NUMBER: HQ014	7213832		
				NET AMT	\$0.00
	ACRN AA				(b)(4)

CLAUSES INCORPORATED BY FULL TEXT

C-01 SCOPE OF WORK (MAY 2005)

CIN: HQ0147213832000401

The Contractor shall perform the work specified in the Contractor's Technical Proposal identified in Section B and hereby incorporated by reference, or other Attachments/Exhibits in Section J of this contract. The Contractor shall provide all necessary materials, labor, equipment and facilities incidental to the performance of this requirement.

Section D - Packaging and Marking

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D-01 PACKAGING AND MARKING OF TECHNICAL DATA (APR 2009)

Technical data items shall be preserved, packaged, packed, and marked in accordance with the best commercial practices to meet the packaging requirements of the carrier and insure safe delivery at destination. Classified reports, data and documentation shall be prepared for shipment in accordance with the current National Industrial Security Program Operating Manual (NISPOM), DOD 5220,22-M.

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	DISPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government
000101	Destination	Covernment	Destination	Covernment
0002	Destination	Government	Destination	Government
000201	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Covernment
000301	Destination	Government	Destination	Government
0004	Destination	Government	Destination	Covernment
900401	Destination	Government	Destination	Coverences

CLAUSES INCORPORATED BY REFERENCE

52 <u>2</u> 469	Inspection Of Research And Development (Short Purru)	APR 1984
52.246-16	Responsibility For Supplies	APR 1984
252.246-7000	Material Inspection And Receiving Report	MAR 2008

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
6001	POP 20-APR-2012 TO 19-OCT-2012	N/A	MISSILE DEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147
000107	POP 20-APR-2012 TO 19-OCT-2012	N/A	MISSILE DEFENSE AGENCY (MDA) BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147
0002	POP 26-APR-2012 TO 19-OCT-2012	N/A	MISSILE OEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147
000201	POP 20-APR-2012 TO 19-OCT-2012	N/A	MISSILE DEFENSE AGENCY (MDA) BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147
008,3	POP 29-APR-2012 TO 19-OCT-2012	N/A	MISSILE DEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147
000201	POP 20-APR-2012 TO 19-OCT-2012	N/A	MISSILE DEFENSE AGENCY (MDA) BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147
0004	POP 20-APR-2012 TO 19-OCT-2012	N/A	MISSILE DEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE SLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-000; FOB: Destination	HQ0147
000401	POF 20-APR-2012 TO 19-OCT-2012	N/A	MISSILE DEFENSE AGENCY (MDA) BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147

CLAUSES INCORPORATED BY REFERENCE

52.242-15	Stop-Work Order	AUG 1989
52.247-34	F.O.B. Destination	NOV 1991
52.247-55	P.O.B. Point For Delivery Of Government-Furnished	JUN 2003
	Property	

ACCOUNTING AND APPROPRIATION DATA

(b)(4)		

CLAUSES INCORPORATED BY REFERENCE

252.204-0002

Line Item Specific: Sequential ACRN Order

SEP 2009

CLAUSES INCORPORATED BY FULL TEXT

G-01 CONTRACT ADMINISTRATION (SEP 2010)

Notwithstanding the Contractor's responsibility for total management during the performance of this contract, the administration of the contract will require maximum coordination between the Covernment and the Contractor. The following individuals will be the Covernment points of contact during the performance of this contract:

6. CONTRACTING OFFICERS

All contract administration will be effected by the Procuring Contracting Officer (PCO) or designated Administrative Contracting Officer (ACO). Communication pertaining to the contract administration should be addressed to the Contracting Officer. Contract administration functions (see FAR 42.302 and DFARS 242.302) are assigned to the cognizant contract administration office. No changes, deviations, or waivers shall be effective without a modification of the contract executed by the Contracting Officer or his duly authorized representative authorizing such changes, deviations, or waivers.

The point of contact for all contractual matters is:

Name: (b)(6)
Organizational Code: MDA/DACV
Telephone Number: (b)(6)
E-Mail Address: (b)(6)

b. TECHNICAL MONITOR

The Technical Monitor is not authorized to change any of the terms and conditions of the contract. The Contractor is advised that only the Contracting Officer can change or modify the contract terms or take any other

action which obligates the Government. Then, such action must be set forth in a formal modification to the contract. The authority of the TM is strictly limited to him/her, without redelegation, to the specific duties set forth in his/her letter of appointment, a copy of which is furnished to the Contractor. Contractors who rely on direction from other than the Contracting Officer, a TM acting outside the strict limits of his/her responsibilities as set forth in his/her letter of appointment do so at their own risk and expense. Such actions do not bind the Government contractually. Any contractual questions shall be directed to the Contracting Officer.

The TM under this contract is:

Name (b)(6)	
Organizational Code: MDA/DTR1	
Telephone Number: (b)(6)	
E-Mail Address: (b)(6)	

G-05 SUBMISSION OF PAYMENT REQUESTS USING WIDE AREA WORK FLOW – RECEIPT AND ACCEPTANCE (WAWF-RA) (SEP 2009)

- a. Requirement for Electronic Payment Requests by WAWF-RA
- The Contractor shall submit all payment requests electronically in accordance with FAR Part 32. As
 prescribed in DFARS clause 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports,
 contractors shall submit all payment requests in electronic form unless the exception in the DFARS clause applies.
 Paper copies will no longer be processed for payment.
- 2. To facilitate electronic submission, contractors shall submit all payment requests through the Wide Area Work Flow Receipt and Acceptance (WAWF-RA) System as described at http://www.dfas.mil/contractorpsy/electroniccommerce/wideareaworkflow.html using the appropriate Service Acceptor's DoDAAC (MDA/NCR is HQ0006, MDIOC is H95001, MDA/HSV is HQ0147). When using WAWF-RA, the contractor must include the Technical Montior's (TM) e-mail in the invoice submission template in order to notify the TM that a WAWF document has been submitted for approval.
- In accordance with Appendix F of the DFARS, at the time of each delivery of supplies or services under this contract, the contractor shall prepare and furnish to the Government the WAWP-RA electronic form in lieu of a paper copy Material Inspection and Receiving Report (MIRR), DD Form 250.
- 4. When requesting final payment, the Contractor must establish compliance with all terms of the contract by submitting a Final Receiving Report through WAWF-RA, or Letter of Transmittal, as applicable.
- The WAWF Training Links are located on the Internet at http://www.wawftraining.com/ and on the 'live' site at https://wawf.eb.mil under "About WAWF".
 - 6. Questions regarding the use of the system are to be directed to the WAWF Help Desk:

DISA DECC Ogden
Electronic Business Service Desk
CONUS ONLY: 1-866-618-5988
COMMERCIAL: 801-605-7095

DSN: 338-7095

FAX COMMERCIAL: 801-605-7453

FAX DSN: 388-7453 cscassig@csd.disa.mil

- b. Submission of Invoices under Fixed Price Type Contracts
- 1. "Inverice" as used in this paragraph does not include the contractor's requests for progress payments.
- 2. The use of WAWF-RA electronic form and invoice are in accordance with DFARS Apparelix F.
- 3. In addition to the requirements of the Prompt Payment clause of the contract, the contract shall elic on each invokes the contract line item (CLIN); the contract subline item number (SUBCLIN), if applicable; the accounting classification reference number (ACRN), and the payment terms.
 - 4. The contractor shall prepare either:
 - a separate invoice for each activity designated to receive the supplies or services; or, a consolidated invoice covering all shipments delivered under an individual order.
- If acceptance is at origin, the commeter shall submit the WAWF-RA electronic form or other acceptance verification directly to the designated payment office.
- If acceptance is at destination, the consigned will forward acceptance varification to the designated
 payment office.

OR

- b. Submission of Youchers under Time and Materials and Cost Type Contracts
- 1. Contractors approved under the Defense Contract Audit Agency's (DCAA) direct billing program may submit the first and subsequent interior vouchers directly to the disbursing office. Contractors participating in the direct billing program must provide a copy of the first interim voucher to the cognizant DCAA office within 5 days of its submission to the disbursing office.
- Upon written notification to the contractor, DCAA may rescind the direct submission authority. Upon
 receipt of the notice to rescind the direct submission authority, the contractor will immediately begin to submit
 invoices for the affected contracts to DCAA.
- 3. When authorized by the DCAA is accordance with OFARS 242.803(b) (i) (C), the contractor may submit interim payment requests. Such authorization does not extend to the first and final vouchers. Vouchers requesting interim payments shall be submitted no more than once every two weeks. For indefinite delivery type contracts, interim payment requests shall be submitted no more than once every two weeks for each delivery order. There shall be a lapse of no more than 90 extendar days between performance and submission of an interim payment request.
- 4. The contractor agrees to segregate costs incurred under this contract at the level of performance, either task or subtask, or CLIN or SUBCLIN, rather than on a total contract basis, and to submit vouchers reflecting costs incurred at that level. Youchers shall contain summaries of work charged during the period covered, as well as overall cumulative summaries for all work invoiced to date, by line item, subline item, task or subtask. Delivary orders will be segregated by individual order.
- 5. Prior to final voucher submission, the contractor must submit the final report/final deliverable to the Technical Montitor (TM) for approval. The TM will provide to the contractor an e-mail stating acceptance of the final report/final deliverable. The contractor must attach the approval to the final voucher in WAWF and forward to the cognizant DCAA office and ACO for approval.

G-13 NOTICE OF THE GOVERNMENT'S USE OF OUTSIDE CONTRACTORS TO REVIEW SUBMITTED INVOICES, PAYMENT REQUESTS. AND MATERIAL INSPECTION AND RECEIVING REPORTS (MAY 2009)

The Government may utilize support contractors to assist the Government in the review and evaluation of the offeror's invoices, payment requests, material inspection and receiving reports, and similar requests for payment or evidence of delivery. These contractors will be provided access to these and other records which may contain the proprietary information of the offeror, to include awarded contracts, to support Government officials in reviewing and reconciling invoices, payment records, and the Government's financial and budgetary records, and in facilitating the timely payment of aubmitted invoices.

The support contractors are prohibited from obtaining proprietary information to which their employees will have access in the performance of their responsibilities, and are required to promptly notify the contracting officer of any breach of their employees' non-disclosure obligations. Each of the contractor amployees has also been required to execute a non-disclosure agreement which acknowledges their responsibilities to only use proprietary information in performance of the above tasks and for no other reason; that they will not share proprietary information with their employers; that they will not use such information for personal or other benefit; and that they will promptly notify their employers of any breaches of their responsibilities.

Unless the offerer specifically objects in writing, the offerer agrees, by the salumission of a proposal, to allow the Government's support contractors to have access to the offerer's proprietary information for the purposes described above.

Section H - Special Contract Requirements

CLAUSES INCURPORATED BY FULL TEXT

H-08 PUBLIC RELEASE OF INFORMATION (APR 2009)

- a. The policies and procedures outlined herein apply to information submitted by the Contractor and his subcontractors for approval for public release. Prior to public release, all information shall be cleared as shown in the "National Industrial Security Program Operations Manual" (DoD 5220.22-M). At a minimum, these materials may be technical papers, presentations, articles for publication and speeches or mass modia material, such as press releases, photographs, fact sheets, edvertising, posters, compact discs, videos, etc.
- b. All materials which relate to the work performed by the contractor under this contract shall be submitted for review and approval prior to release to the public. Subcontractor public information materials shall be submitted for approval through the prime contractor to MDA.
- c. The MDA review and approval process for commuters working under an MDA contract starts with the Technical Monitor (TM).
- The contractor shall request a copy of MDA form "Security and Policy Review Worksheet for Public Release Review" (.pdf format) or any superseding form from the MDA.
- (2) The contractor shall complete Blocks A-1 of the Worksheet (or comply with the instructions of any superseding form) and submit it with materials to be cleared to the TM (see paragraph j. below). If the information was previously cleared, provide the Public Release Case Number if available and a copy of the previous document highlighting the updated information.
- (3) The TM may affirm "public releaseability" by signing the Statement of Certification in Block 1, Number 37, of the Workshoet.
- (4) The TM will forward the Worksheet with the materials to be cleared to the MDA designated point of contant for Block J. Number 38, approval and submission of package to MDA/PA at publicar lease@mda.pit.
 - (5) The TM will notify the contractor of the agency's final decision regarding the status of the request.
- d. The contractor shall submit the following to the TM at least 60 days in advance of the proposed release date:
 - (1) Security and Policy Review Worksheet and one (1) electronic copy of the material to be reviewed...
 - (2) Written statement, including:
 - (a) To whom the material is to be released
 - (b) Desired date for public release
- (c) Statement that the material has been reviewed and approved by officials of the contractor or the subcontractor, for public release, and
 - (d) The contract number.
- c. The items submitted must be complete. Photographs shall have captions.
- Ostilines, rough drafts, marked-up copy (with handwritten notes), incorrect distribution statements, FOLIO
 information, export controlled or ITAR information will not be accepted or cleared.
- g. Abstracts or abbreviated materials may be submitted if the intent is to determine the feasibility of going further in preparing a complete paper for clearance. However, clearance of abstracts or abbreviated materials does not satisfy the requirement for clearance of the entire paper.

- h. The MDA Director of Public Affairs (MDA/PA) is responsible for coordinating the public release review.

 MDA/PA will work directly with the TM if there are questions or concerns regarding submissions. MDA/PA will not work with contractors who have not gone through their TM.
- i. Once information has been cleared for public release, it is in the public domain and shall always be used in its originally cleared context and format. Information previously cleared for public release but containing new, modified or further developed information must be submitted again for public release following the steps outlined in items a, through h, above.
- j. Due to time and screening constraints, it is recommended that all "public release" packages submitted to MDA be forwarded by a commercial overnight delivery service, addressed as follows:

See TMR contact information found in MDA-G01

H-10 ENABLING CLAUSE FOR BMD INTERFACE SUPPORT (APR 2009)

- a. It is anticipated that, during the performance of this contract, the Contractor will be required to support Technical interface/integration Meetings (TIMS) with other Ballistic Missila Defense (BMD) Community and other Government agencies. Appropriate organizational conflicts of interest clauses and additional costs, if any, will be negotiated as needed to protect the rights of the Contractor and the Government.
- b. Interface support deals with activities associated with the integration of the requirements of this contract into BMD system plans and the support of key Missile Defense Agency (MDA) program reviews.
- c. The Contractor agrees to cooperate with BMD Contractors by providing access to excluded matters, provided, however, the Contractor will not be required to provide proprietary information to non-Government entities or personnel in the absence of a non-disclosure agreement between the Contractor and such entities.
- d. The Contractor further agrees to include a clause in each subcontract requiring compliance with paragraph c. above, subject to coordination with the Contractor. This agreement does not relieve the Contractor of its responsibility to manage its subcontracts affectively, nor is it intended to establish privity of contract between the Government and such subcontractors.
- e. Personnel from BMD Contractors or other Government agencies or Contractors are not authorized to direct the Contractor in any manner.
- f. This clause shall not prejudice the Contractor or its subcontractors from negatiating separate organizational conflict of interest agreements with BMO Contractors; however, these agreements shall not restrict any of the Oovernment's rights established pursuant to this clause or any other contract.

H-II MDA VISIT AUTHORIZATION PROCEDURES (AUG 2011)

a. The Contractor shall submit all required visit clearances in accordance with current NISPOM regulations. Visit clearances shall identify the contract number.

For Visit Requests to the National Capital Region send to:

JPAS SMO Code: DDAAU4 Missile Defense Agency Atin: Access Control Center 5700 18th Street, Bidg 245 Fort Belvoir, VA 22060-5573 571-231-8249 571-231-8099 FAX ACC@MDA.mil

For Visit Requests to Huntsville, AL send to:

Missile Defense Agency,
JPAS SMO Code: DDAAUH
Ann: Visitor Control
Bidg 5224 Martin Road
Redstone Arsenal, AL 35898
256-450-3215
256-450-3222 FAX
MDAyisitorcontrolincominghay@mda.mi

b. The TM is authorized to approve visit requests for the Contracting Officer.

H-14 PERSONNEL QUALIFICATIONS (MAY 2005)

- e. The Contractor shall promptly notify the Contracting Officer and Technical Monitor prior to making any changes is key staff. If replacing key staff the Contractor shall adhere to the following: (1) replacement person's qualifications are equal to or better than the qualifications of the person being replaced; or (2) the added person's qualifications are equal to or better than the core capabilities of this contract. Key staff positions are defined as: Principal investigator, Program Manager, Deputy Program Manager, or Lead Engineer.
- b. All Contractor notifications must provide the name and departure date for the incumbent leaving, a complete resume for the proposed substitute, and any other pertinent information requested by the Contracting Officer. The Covernment shall be provided the opportunity to review the proposed substitution regarding qualifications, security matters or any other concerns which could, in its opinion, affect performance under this contract.
- a. This clause does not, in any way, abrogate the contractor's authority to hire or assign personnel as it sees fit, or its responsibility to full key positions with qualified personnel.

H-25 ACQUISITION OMBUDSMAN (APR 2009)

The MDA Acquisition Ombudsman is the Executive Director of the Agency. Government and commetor parsonnel may directly contact the Acquisition Ombudsman to ask that he inquire into any acquisition integrity issue and resolve it appropriately. The Acquisition Ombudsman will assist in handling integrity, fairness or other issues associated with individual contracts, source selections, award fee recommendations, and negotiations. His objective is to help MDA ensure that our processes, and their implementation, are fair, unbiased and consistent. You may contact the Acquisition Ombudsman at 703-697-7691, or by mail at Missile Defense Agency/DX, 7100 Defense Pentagon, Washington, D.C. 20307-7100.

- 1. "Foreign National" (also known as Foreign Persons) as used in this clause means any person who is NOT:
- a. a citizen or national of the United States; or
- b. a lawful permanent resident; or
- c. a protected individual as defined by 8 U.S.C. 1324b(a)(3).

"Lawful permanant resident" is a person having the status of having been lawfully accorded the privilege of residing permanently in the United States as an immigrant in accordance with the immigration laws and such status not having changed.

"Protoczed individual" is an alien who is iswfully admitted for permanent residence, is granted the status of an alien lawfully admitted for temporary residence under 8 U.S.C.1160(a) or 8 U.S.C.1255a(a)(1), is admitted as a refuger under 8 U.S.C.1157, or is granted asylum under section 8 U.S.C.1158; but does not include (i) an alien who fails to apply for naturalization within six months of the date the alien first becarries eligible (by virtue of period of inwful permanent residence) to apply for naturalization or, if later, within six months after November 6, 1986, and (ii) an alien who has applied on a timely basis, but has not been naturalized as a citizen within 2 years after the date of the application, unless the alien can establish that the alien is actively pursuing naturalization, except that time consumed in the Service's processing the application shall not be counted toward the 2-year period."

2. Prior to contract award, the contractor shall identify any lawful U.S. permanent residents and furnign nationals expected to be involved on this project as a direct employee, subcontractor or consultant. For these individuals, in addition to resumes, please specify their country of origin, the type of visa or work permit under which they are performing and an explanation of their anticipated level of involvement on this project. You may be asked to provide additional information during negatiations in order to verify the foreign citizen's eligibility to participate on a contract. Supplemental information provided in response to this clause will be protected in accordance with Privacy Act (5 U.S.C. 552a), if applicable, and the Precedom of Information Act (5 U.S.C. 552(b)(6)). After award of the contract, the Contractor shall promptly notify the Contracting Officer and Technical Monitor with the information above prior to making any personnel changes involving foreign persons. No changes involving foreign persons will be allowed without prior approval from the Contracting Officer. This clause does not remove any liability from the contractor to comply with applicable lTAR and EAR export control obligations and restrictions. This clause shall be included in any subcontract."

H-28 DISTRIBUTION CONTROL OF TECHNICAL INFORMATION (Apr 2011)

- a. The following terms applicable to this clause are defined as follows:
- Technical Document. Any recorded information (including software) that conveys scientific and technical information or technical data.
- Scientific and Technical Information. Communicable knowledge or information resulting from or pertaining to the conduct or management of effort under this contract. (Includes programmatic information).
- 3. Technical Data. Recorded information related to experimental, developmental, or engineering works that can be used to define an engineering or manufacturing process or to design, procure, produce, support, maintain, operate, repair, or overhaul material. The data may be graphic or pictorial delineations in media such as drawings or photographs, text in specifications or related performance or design type documents, or computer printests. Examples of technical data include research and engineering data, engineering drawings, and associated lists, specifications, standards, process sheets, manuals, technical reports, catalog item identifications, and related information and computer software documentation.

- b. Except as otherwise set forth in the Contract Data Requirements List (CDRL), DD Form 1423, or paragraph a below, the distribution of any technical documents prepared under this contract, in any stage of development or completion, is prohibited outside of the contractor and applicable subcontractors under this contract unless expressly authorized/directed by the Contracting Officer in writing
- c. Except as otherwise set forth in the CDRL or otherwise directed by the government (e.g., paragraph d. below) all technical documents prepared under this contract shall be marked with the appropriate distribution statement, warning, and destruction notice in accordance with all marking references as specified in the DD Form 254.

Note to the PCO: if there is no DO254, complete this alternate paragraph c in lieu of the above:

c. Except as otherwise set forth in the CDRL or otherwise directed by the government (e.g., paragraph d. below) all technical documents prepared under this contract shall be marked with the following distribution statement, warning, and destruction notice:

1. DISTRIBUTION STATEMENT

- 2. WARNING This document/softwere contains technical data/software whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., See 2751 et seq.) or the Export Administration Act of 1979, as amended, (Title 50, U.S.C., App 2401 et seq.). Violations of these export lews are subject to severe criminal panalties. Disseminate in accordance with provisions of DOD Directive 5230.25.
- 3. DESTRUCTION NOTICE For classified documents, follow the procedures in DOD 5220.22M, National Industrial Security Program Operating Manual, Chapter 5, Section 7, or DOD 5200.1R, Information Security Program Regulation, Chapter 6, Section 7. For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.
- d. As a past of the review of preliminary or working draft technical documents, the Covernment will determine if a distribution statement less restrictive than Distribution Statement D would provide adequate protection. If so, the Covernment's concurrence/comments will provide specific instructions on the distribution statement to be marked on the final technical documents before primary distribution.
- v. The prime and subcontractors are authorized to use technical documents generated or held under this contract for purposes of this contract or any other MDA contract, solicitation or program and to flow such technical documents to each other, DOD officials and other DOD contractors having a "need to know" in connection with this contract or any other MDA contract, solicitation or program. When there is any doubt as to "need to know" for purposes of this paragraph, the Technical Monitor (TM) will provide direction. The authorization provided by this paragraph e, is subject to strict compliance with contract security requirements, export control requirements, contractor proprietary restrictions/markings and/or the provisions of any applicable non-disclosure agreements which may be in effect.

H-29 COMMERCIAL COMPUTER SOFTWARE LICENSE (FEB 2012)

a. Unless otherwise approved by the PCO, commercial computer software licenses shall designate the U.S. Government as a contingent licensee, able to replace the Contractor as the primary licensee upon notifying the licensor. A copy of the negotiated license shall be furnished to the PCO. The terms of the licenses cannot be inconsistent with Federal procurement law and must satisfy user needs. This includes the Contractor's / subcontractor's needs for the software to perform this contract and the Government's needs for the software to accomplish the Government's ultimate objectives. At a minimum, this shall include the rights to make an archive copy of the software, to relocate the computer on which the software resides, to re-host the software on a different

computer, to permit access by support contractors, and to permit the Government to transfer the license to another contractor.

b. Nothing in this clause shall take procedence over any other clause or provision of this contract.

Onvernment concurrence, as defined in paragraph a above, does not in any way affect the Government's technical data rights as established by the terms and conditions of this contract.

H-30 CONTRACTUAL TERMS & CONDITIONS (Jun 2010)

The terms and conditions berein constitute the entire contract and understanding of the parties and shall supersade all other communications, negotiations, arrangements and agreements, either und or written, with respect to the subject matter bereof. All proposal documentation including, but not limited to, red line contract terms and conditions, red line statements of work and/or ground rules and assumptions are hereby void and carry no force or affect as it pertains to the interpretation or operation of the language of the instant contract nor should such language be used to provide meaning to any of the terms or conditions contained herein.

H-35 INCORPORATING COMMERCIAL AND OPEN SOURCE SOFTWARE (Nov 2010)

- a. DFARS 252.227-7014(d) requires the written approval of the PCO before the Contractor may incorporate any copyrighted computer software in the software to be delivered under this contract.
- b. A request for approval to incorporate Commercial Computer Software should be accompanied by a license that conforms with the requirements of the Commercial Computer Software Licenses classes of this contract.
- c. A request for approved to incorporate Open Source Software must be accompanied by the applicable license, a detailed description of the source of the suffware and how it has been or will be used, and a legal analysis of the restrictions imposed and potential risks and liabilities.
- d. Nothing in this clause shall take precedence over any other clause or provision of this commet. Government concurrence, as defined in paragraph a above, does not in any way affect the Government's technical data rights as established by the terms and conditions of this contract.

H-37 INSERTION OF LIMITED OR RESTRICTED RIGHTS (DEC 2010)

- a. Hardware items which are subject to Limited Rights in their associated technical data as defined in DFARS 252.227-7013 and software items which are subject to Restricted Rights as defined in DFARS 252.227-7014 shall not be incorporated into the design of any systems, or models/simulations thereof under this contract without the prior written authorization of the PCO. The Contractor's request shall include a rough order of magnitude (ROM) estimate to perform development if the data or software cannot be used as requested. If the PCO does not provide a decision within 30 days of the request, the request is considered denied. In the event the PCO authorizes inclusion of the Limited Rights sechnical data and/or Restricted software, such data or software will be added as an astachment within Section 1.
- b. Using Government assets in an Independent Research and Development (IRAD) project may be authorized on a case by case basis. The Contractor's request shalf include an offer of consideration for use of such Government assets. The Government will evaluate the request, including the Contractor's offer of consideration.

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and either approve, deny, or offer an alternative form of consideration. Any such consideration will be mutually agreed to by the parties prior to use of Government assets. Consideration about include, at a minimum, specially negotiated rights granting the Government a license for Government Purpose Rights IAW DFARS 252.227-7013 and 252.227-7014 in the subject IRAD project. When the Contractor requests the use of Government assets for an IRAD project, the request shall include the purpose of the IRAD project and the potential benefit to the Government. The Contractor will be required to execute a ballment agreement prior to the transfer or use of Government assets.

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

52.203-3	Oratuities	APR 1984
52.20 3-5	Covenant Against Contingent Free	APR 1984
52,204-2	Security Requirements	AUG 1996
52.204-10	Reporting Executive Compensation and First-Tier	PEB 2012
	Subcontract Awards	
52,209-6	Protecting the Government's laterest When Subcontracting	DEC 2010
	With Contractors Debarred, Suspended, or Proposed for	***************************************
	Debarment	
52.211*15	Defense Priority And Allocation Requirements	APR 2008
52.215-8	Order of Precedence-Uniform Contract Format	OCT 1997
52.222-3	Convict Labor	JUN 2003
52,222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	MAR 2007
52.222-35	Equal Opportunity for Veterans	SEP 2010
52.222-36	Affirmative Action For Workers With Disabilities	OCT 2010
52 <i>.2</i> 22-37	Employment Reports on Veterans	SEP 2010
52.222-50	Combating Trafficking in Persons	FEB 2009
52.223-14	Toxic Chemical Release Reporting	AUG 2003
52,223-18	Encouraging Contractor Policies To Ban Text Messaging	AUG 2011
50 50 m	While Driving	
52.225-13	Restrictions on Certain Foreign Purchases	JUN 2008
52.227-1 Ah I	Authorization And Consent (Dec 2007) - Alternate I	APR 1984
52.227-2	Notice And Assistance Regarding Patent And Copyright	DEC 2007
Ed adm n	Infilagoment	
52.227-3	Patent Indemnity	APR 1984
52.227-10	Filing Of Patent Applications-Classified Subject Matter	DEC 2007
52.227-11 52.212-2	Patent Rights-Ownership By The Contractor	DEC 2007
34.434*2	Payments Under Fixed-Price Research And Development	APR 1984
52.232-9	Contracts	
52.232-17	Limitation On Withholding Of Payments Interest	APR 1984
52.232-23	Assignment Of Claims	OCT 2010
52.232-25	Prompt Payment	JAN 1986
52.232-33	Payment by Electronic Funds Transfer-Central Contractor	OCT 2008
The state of the Table 2	Registration Registration	OCT 2003
52.233-1	Disputes	
52.233-3	Protest After Award	JUL 2002
52.243-1 Ak V	Changes-Fixed-Price (Aug 1987) - Alternate V	AUG 1996
52.244-6	Subcontracts for Commercial Items	APR 1984
57.249-1	Termination For Convenience Of The Government (Fixed	DEC 2010 APR 1984
	Price) (Short Form)	AFK IYOR
52,249-9	Default (Fixed-Priced Research And Development)	APR 1984
52.252-2	Clauses Incorporated By Reference	FEB 1998
52,253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252,203-7000	Requirements Relating to Compensation of Former DoD	SEP 2011
*	Officials	WENT SOFT
252.203-7002	Requirement to Inform Employees of Whistleblower Rights	JAN 2009
252.204-7000	Disclosure Of Information	DEC 1991
252.204-7003	Control Of Government Personnel Work Product	APR 1992

THE MAINTAINS AN A	Central Contractor Registration Alternate A	SEP 2007
252.204-7005	One Attentation of Security Responsibilities	NOV 2001
252.204-7008	Export-Controlled hems	APR 2010
252.209.7004		
ADALZUTY FURM	Subcontracting With Firms That Are Owned or Controlled By	DEC 200
7 M A	The Government of a Terrorist Country Item Identification and Valuation	e same a
252,211-7003		JUN 2011
252.211-7007	Reporting of Government-Furnished Equipment in the DoD	NOV 2008
	Item Unique Identification (IUID) Registry	
252.225-7993 (Dev)	Prohibition on Contracting with the Enemy in the United	JAN 2012
	States Control Command Theater of Operations	
252.225-7994 (Dev)	Additional Access to Contractor and Subcontractor Records	JAN 2012
	in the United States Central Command Theater of Operations	
252,227-7000	Non-estoppel	OCT 1966
252.227-7016	Rights in Bid or Proposal Information	JAN 2011
252.227-7017	Identification and Assertion of Use, Release, or Disclosure	JAN 2011
	Restrictions	
252.227-7019	Validation of Asserted Restrictions-Computer Software	SEP 2011
252.227-7025	Limitations on the Use or Disclosure of Government-	MAR 2011
	Furnished Information Marked with Restrictive Legends	
252.227-7026	Deferred Delivery Of Technical Data Or Computer Software	APR 198#
252.227-7027	Deferred Ordering Of Technical Data Or Computer Software	APR 1988
252.227-7030	Technical Data-Withholding Of Payment	MAR 2000
252,227-7037	Validation of Restrictive Markings on Technical Data	SEP 2011
252,227-7039	Patents-Reporting Of Subject Inventions	APR 1990
252,232-7003	Electronic Submission of Payment Requests and Receiving	MAR 2008
	Reports	
252.232-7010	Levies on Contract Payments	DEC 2006
252.235-7011	Final Scientific or Technical Report	NOV 2004
252,243-7001	Pricing Of Contract Modifications	DEC 1991
252,247-7023	Transportation of Supplies by Sea	MAY 2002
252.247-7024	Notification Of Transportation Of Supplies By Sea	MAR 2000

CLAUSES INCORPORATED BY FULL TEXT

52.217-7 OPTION FOR INCREASED QUANTITY—SEPARATELY PRICED LINE ITEM (MAR. 1989)

The Government may require the delivery of the numbered line item, identified in the Schedule as an option item, in the quantity and at the price stated in the Schedule. The Contracting Officer may exercise the option by written notice to the Contractor within 165 days from the effective date of the contract. Delivery of added items shall continue at the same rate that like hams are called for under the contract, unless the parties otherwise agree.

(End of clause)

52,219-28 POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION (APR 2009)

(a) Definitions. As used in this clause-

Long-term contract means a contract of more than five years in duration, including options. However, the term does not include contracts that exceed five years in duration because the period of performance has been extended for a cumulative period not to exceed six months under the clause at 52.217-8. Option to Extend Services, or other appropriate authority.

Small business expour means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CPR part 121 and the size standard in paragraph (c) of this clause. Such a concern is "not dominant in its field of operation" when it does not exercise a controlling or major influence on a national basis in a kind of business activity in which a number of business concerns are primarily engaged. In determining whether dominance exists, consideration shall be given to all appropriate factors, including volume of business, number of employees, financial resources, competitive sinus or position, ownership or control of materials, processes, patents, license agreements, facilities, sales territory, and nature of business activity.

- (b) If the Contractor represented that it was a small business concern prior to award of this contract, the Contractor shall recepresent its size status according to paragraph (c) of this clause or, if applicable, paragraph (g) of this clause, upon the occurrence of any of the following:
- (1) Within 30 days after execution of a novation agreement or within 30 days after modification of the contract to include this clause, if the novation agreement was executed prior to inclusion of this clause in the contract.
- (2) Within 30 days after a merger or acquisition that does not require a novation or within 30 days after modification of the contract to include this clause, if the marger or acquisition occurred prior to inclusion of this clause in the contract.
- (3) For long-term contracts-
- (i) Within 60 to 120 days prior to the end of the fifth year of the contract; and
- (ii) Within 50 to 120 days prior to the date specified in the contract for exercising any option thereifter.
- (a) The Contractor shall rerepresent its size status in accordance with the size standard in effect at the time of this rerepresentation that corresponds to the North American Industry Classification System (NAICS) code assigned to this contract. The small business size standard corresponding to this NAICS code can be found at http://www.sba.gov/services/contractingopportunities/sizestandardstopics/.
- (d) The small business size standard for a Contractor providing a product which it does not manufacture itself, for a commet other than a construction or service contract, is 500 employees.
- (c) Except as provided in paragraph (g) of this clause, the Contractor shall make the rerepresentation required by paragraph (b) of this clause by validating or updating all its representations is the Online Representations and Certifications Application and its data in the Central Contractor Registration, as necessary, to ensure that they reflect the Contractor's current status. The Contractor shall notify the contracting office in writing within the timeframes specified in paragraph (b) of this clause that the data have been validated or updated, and provide the date of the validation or update.
- (f) If the Contractor represented that it was other than a small business concern prior to award of this contract, the Contractor may, but is not required to, take the actions required by paragraphs (e) or (g) of this clause.
- (g) If the Contractor does not have representations and certifications in ORCA, or does not have a representation in ORCA for the NAICS code applicable to this contract, the Contractor is required to complete the following rerepresentation and submit it to the contracting office, along with the contract number and the date on which the rerepresentation was completed:

The Contractor represents that it (x) is, () is not a small business concern under NAICS Code 541712- assigned to contract number HQ0147-12-C-7085.

(Contractor to sign and date and insert authorized signer's name and title).

(End of ciscse)

252.209-7999 REPRESENTATION BY CORPORATIONS REGARDING AN UNPAID DELINQUENT TAX LIABILITY OR A FELONY CONVICTION UNDER ANY FEDERAL LAW (DEVIATION 2012-00004) (JAN 2012)

- (a) In accordance with sections \$124 and \$125 of Division A of the Consolidated Appropriations Act, 2012/Pub. L. 112-74) mone of the funds made available by that Act may be used to enter into a comment with any corporation that—
- (1) Has any impaid 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 impaid tax liability, unless the agency has considered suspension or debarment of the corporation and made a determination that this further action is not ascessary 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 action is not necessary to protect the interests of the Government.
 (b) The Officer represents that—
- (1) It is [] is not [*] a corporation that has any unped Federal tax hability that has been assessed, for which all judicial and administrative remodes have been exhausted or have lapsed, and that is not being paid in a timely margar parament to an agreement with the authority responsible for collecting the tax liability.
- (2) It is [____] is not [___] a conjugation that was convicted of a felony criminal violation under a Federal law within the preceding 24 months.

(End of provision)

252.227-7018 RIGHTS IN NONCOMMERCIAL TECHNICAL DATA AND COMPUTER SOFTWARE— SMALL BUSINESS INNOVATION RESEARCH (SBIR) PROGRAM. (MAR 2011)

- (a) Definitions. As used in this clause-
- (1) "Commercial computer software" means software developed or regularly used for nongovernmental purposes which—
- (i) Has been sold, leased, or licensed to the public;
- (ii) Has been offered for sale, lease, or license to the public;
- (iii) Has not been offered, sold, leased, or licensed to the public but will be available for commercial sale, lease, or license in time to satisfy the delivery requirements of this contract, or
- (iv) Satisfies a criterion expressed in paragraph (a)(i)(i), (ii), or (iii) of this clause and would require only minor modification to meet the requirements of this contract.
- (2) "Computer database" means a collection of recorded data in a form capable of being processed by a computer. The term does not include computer software.

- (3) "Computer program" means a set of instructions, rules, or routines, recorded in a form that is capable of cruzing a computer to perform a specific operation or series of operations.
- (4) "Computer software" means computer programs, source code, source code listings, object code listings, design details, algorithms, processes, flow charts, formules, and related material that would enable the software to be reproduced, re-created, or recompiled. Computer software does not include computer databases or computer software does not include computer databases or computer software documentation.
- (5) "Computer software documentation" means owner's manuals, user's manuals, installation instructions, operating instructions, and other similar items, regardless of storage medium, that explain the capabilities of the computer software or provide instructions for using the software.
- (6) Covered Government support contractor mesos a contractor under a contract, the primary purpose of which is to furnish independent and impartial advice or technical assistance directly to the Government in support of the Government and oversight of a program or affort (rather than to directly furnish as end item or service to accomplish a program or affort), provided that the contractor—
- (i) Is not affiliated with the prime contractor or a first-tier subcontractor on the program or effort, or with any direct competitor of such prime contractor or any such first-tier subcontractor in furnishing end items or services of the type developed or produced on the program or effort; and
- (ii) Receives access to the technical data or computer software for performance of a Government contract that contains the clause at 252.227-7025, Limitations on the Use or Disclosure of Government-Furnished Information Marked with Restrictive Legends.
- (7) "Detailed manufacturing or process data" means technical data that describe the steps, sequences, and conditions of manufacturing, processing or assembly used by the manufacturer to produce an item or component or to perform a process.

(8) "Developed" means-

- (i) (Applicable to technical date other than computer software documentation.) An item, component, or process, exists and is workable. Thus, the item or component must have been constructed or the process practiced. Workability is generally established when the item, component, or process has been analyzed or tested sufficiently to demonstrate to reasonable people skilled in the applicable art that there is a high probability that it will operate as intended. Whather, how much, and what type of analysis or testing is required to establish workability depends on the nature of the item, component, or process, and the state of the set. To be considered "developed," the item, component, or process need not be at the stage where it could be offered for sale or sold on the commercial market, nor must the item, component or process be actually reduced to practice within the meaning of Title 35 of the United States Code;
- (ii) A computer program has been successfully operated in a computer and tested to the extent sufficient to demonstrate to reasonable persons skilled in the art that the program can reasonably be expected to perform its intended purpose;
- (iii) Computer software, other than computer programs, has been tested or analyzed to the extent sufficient to demonstrate to reasonable persons skilled in the art that the software can reasonably be expected to perform its intended purpose; or
- (iv) Computer software documentation required to be delivered under a contract has been written, in any enadium, in sufficient detail to comply with requirements under that contract.
- (9) "Developed exclusively at private expense" means development was accomplished entirely with costs charged to indirect cost pools, costs not allocated to a government contract, or any combination thereof.

- (i) Private expense determinations should be made at the lowest practicable level.
- (ii) Under fixed-price contracts, when total costs are greater than the firm-fixed-price or ceiling price of the contract, the additional development costs necessary to complete development shall not be considered when determining whether development was at government, private, or mixed expense.
- (10) "Developed exclusively with government funds" means, development was not accomplished exclusively or partially at private expense.
- (11) "Developed with mixed funding" means development was accomplished partially with costs charged to indirect cost pools and/or costs not allocated to a government contract, and partially with costs charged directly to a government contract.
- (12) "Form, fit, and function data" means technical data that describe the required overall physical, functional, and performance characteristics (along with the qualification requirements, if applicable) of an item, component, or process to the extent necessary to permit identification of physically and functionally interchangeable items.
- (13) "Concrated" mesos technical data or computer software first created in the performance of this contract.
- (14) "Government purpose" means any activity in which the United States Government is a party, including cooperative agreements with international or multi-national defense organizations or sales or transfers by the United States Government to foreign governments or international organizations. Government purposes include competitive procurement, but do not include the rights to use, modify, reproduce, release, perform, display, or disclose technical data or computer software for commercial purposes or enthorize others to do so.
- (15) Limited rights means the rights to use, modify, reproduce, release, perform, display, or disclose technical data, in whole or in part, within the Government. The Government may not, without the written permission of the party asserting limited rights, release or disclose the technical data outside the Government, use the technical data for manufacture, or sutherize the technical data to be used by another party, except that the Government may reproduce, release, or disclose such data or authorize the use or reproduction of the data by persons existed the Government if—
- (i) The reproduction, release, disclosure, or use is--
- (A) Necessary for emergency repair and overheat; or
- (B) A release or disclosure to-
- (1) A covered Government support contractor, for use, modification, reproduction, performance, dispisy, or release or disclosure to authorized person(s) in performance of a Government contract; or
- (2) A foreign government, of technical data (other than detailed manufacturing or process data), when use of such data by the foreign government is in the interest of the Covernment and is required for evaluational or informational purposes;
- (ii) The recipient of the technical data is subject to a probibition on the further reproduction, release, disclosure, or use of the technical data; and
- (iii) The confractor or subcontractor asserting the restriction is notified of such reproduction, release, disclosure, or use.
- (16) "Minor medification" means a medification that does not significantly after the nongovernmental function or purpose of computer software or is of the type customarily provided in the commercial marketplace.

- (17) "Nuncommercial computer software" means software that does not qualify as commercial computer software under paragraph (a)(1) of this clause.
- (18) Restricted rights apply only to noncommercial computer software and mean the Government's rights to-
- (i) Use a computer program with one computer at one time. The program may not be accessed by more than one terminal or central processing unit or time shared unless otherwise permitted by this contract;
- (ii) Transfer a computer program to another Government agency without the further permission of the Contractor if the transferor destroys all copies of the program and related computer software documentation in its possession and notifies the licensor of the transfer transferred programs remain subject to the provisions of this clause;
- (iii) Make the minimum number of copies of the computer software required for safekeeping (archive), backup, or modification purposes;
- (iv) Modify computer software provided that the Government may-
- (A) Use the modified software only as provided in paragraphs (a)(18)(i) and (iii) of this clause; and
- (B) Not release or disclose the modified software except as provided in paragraphs (a)(18)(ii), (v), and (vi) of this clause;
- (v) Permit contractors or subcontractors performing service contracts (see 37.101 of the Pederal Acquisition. Regulation) in support of this or a related contract to use computer software to diagnose and correct deficiencies in a computer program, to modify computer software to anable a computer program to be combined with, adapted to, or merged with other computer programs or when accessary to respond to urgest factical situations, provided that—
- (A) The Government notifies the party which has granted restricted rights that a release or disclosure to particular contractors or subcontractors was made:
- (B) Such contractors or subcontractors are subject to the non-disclosure agreement at 727.7103-7 of the Defense Federal Acquisition Regulation Supplement or are Government contractors receiving access to the software for performance of a Government contract that contains the clause at 252.227-7025, Limitations on the Use or Disclosure of Government-Furnished Information Marked with Restrictive Legends;
- (C) The Government shall not permit the recipient to decompile, disassemble, or reverse engineer the software, or use software decompiled, disassembled, or reverse engineered by the Government pursuant to paragraph (#X18Xiv) of this clause, for any other purpose; and
- (D) Such use is subject to the limitation in paragraph (aX18Xi) of this clause;
- (vi) Permit contractors or subcontractors performing emergency repairs or overhaul of items or components of Items procured under this or a related contract to use the computer so flwere when necessary to perform the repairs or overhaul, at to modify the computer software to reflect the repairs or overhaul made, provided that—
- (A) The intended recipient is subject to the non-disclosure agreement at 227.7103-7 or is a Government contractor receiving access to the software for performance of a Government contract that contains the clause at 252.227-7025, Limitations on the Use or Disclosure of Government-Furnished Information Marked with Restrictive Legends; and
- (B) The Government shall not permit the recipient to decompile, disassemble, or reverse engineer the software, or use software decompiled, disassembled, or reverse engineered by the Government pursuant to paragraph (a)(18)(iv) of this clause, for any other purpose; and
- (vil) Permit covered Government support contractors to use, modify, reproduce, perform, display, or release or disclose the computer software to authorized person(s) in the performance of Government contracts that contain the

clause at 292.227-7025, Limitations on the Use or Disclosure of Government-Furnished Information Marked with Restrictive Legends.

- (19) "SBIR data rights" means a royalty-free license for the Government, including its support service commerces, to use, modify, reproduce, release, perform, display, or disclose technical data or computer software generated and delivered under this contract for any United States Government purpose.
- (20) "Technical data" means recorded information, regardless of the form or method of the recording, of a scientific or technical nature (including computer software documentation). The term does not include computer software or data incidental to contract administration, such as financial and/or management information.
- (21) "Unlimited rights" means rights to use, modify, reproduce, release, perform, display, or disclose, technical data or computer software in whole or in part, in any manner and for any purpose whatsoever, and to have or authorize others to do so.
- (b) Rights in technical data and computer software. The Contractor grants or shall obtain for the Government the following royalty-free, world-wide, nonexclusive, irrevocable license rights in technical data or nonecommercial computer software. All rights not granted to the Government are retained by the Contractor.
- (1) Unlimited rights. The Government shall have unlimited rights in technical data, including computer software documentation, or computer software generated under this contract that are—
- (i) Form, fit, and function data;
- (ii) Necessary for installation, operation, maintenance, or training purposes (other than detailed manufacturing or process data);
- (iii) Corrections or changes to Government-furnished technical data or computer software;
- (iv) Otherwise publicly available or have been released or disclosed by the Contractor or a subcontractor without restrictions on further use, release or disclosure other than a release or disclosure resulting from the sale, transfer, or other assignment of interest in the technical data or computer software to another party or the sale or transfer of some or all of a business entity or its assets to another party;
- (v) Data or software in which the Government has acquired previously unlimited rights under another Government contract or through a specific license; and
- (vi) SBIR data upon expiration of the SBIR data rights period.
- (2) Limited rights. The Government shall have limited rights in technical data, that were not generated under this contract, pertain to items, components or processes developed exclusively at private expense, and are marked, in accordance with the marking instructions in paragraph (f)(1) of this clause, with the legend prescribed in paragraph (f)(2) of this clause.
- (3) Restricted rights in computer software. The Covernment shall have restricted rights in noncommercial computer software required to be delivered or otherwise furnished to the Government under this contract that were developed exclusively at private expense and were not generated under this contract.
- (4) SBIR data rights. (i) Except for technical data, including computer software documentation, or computer software in which the Government has unlimited rights under paragraph (b)(1) of this chause, the Government shall have SBIR data rights in all technical data or computer software generated under this contract during the period commencing with contract award and ending upon the date five years after completion of the project from which such data were generated.

- (ii) The Government may not release or disclose SBIR data to any person, either than its support services commentors, except--
- (A) As expressly permitted by the Contractor,
- (B) For evaluation purposes; or
- (C) A release, disclosure, or use that is necessary for emergency repair or overtual of items operated by the Government.
- (iii) A release or disclosure of SBIR data to the Government's support services contractors, or a release or disclosure under paragraph (b)(4)(ii)(B) or (C) of this clause, may be made only if, prior to release or disclosure, the intended recipient is subject to the use and non-disclosure agreement at DFARS 227.7103-7 or is a Government contractor receiving access to the technical data or software for performance of a Government contract that contains the clause at DFARS 252.227-7025, Limitations on the Use of Disclosure of Government-Furnished Information Markod with Restrictive Legends.
- (5) Specifically negotiated license rights. The standard license rights granted to the Government under paragraphs (b)(1) through (b)(4) of this clause may be modified by mutual agreement to provide such rights as the parties consider appropriate but shall not provide the Government lesser rights in technical data, including computer software documentation, then are enumerated in paragraph (a)(14) of this clause or lesser rights in computer software than are enumerated in paragraph (a)(17) of this clause. Any rights so negotiated shall be identified in a license agreement made part of this contract.
- (6) Prior government rights. Technical data, including computer software documentation, or computer software that will be delivered, furnished, or otherwise provided to the Government under this contract, in which the Government has previously obtained rights shall be delivered, furnished, or provided with the pre-existing rights, unless--
- (i) The parties have agreed otherwise; or
- (ii) Any restrictions on the Government's rights to use, modify, release, perform, display, or disclose the technical data or computer software have expired or no longer apply.
- (7) Release from liability. The Contractor agrees to release the Government from liability for any release or disclosure of technical data, computer software, or computer software documentation made in accordance with paragraph (a)(14), (a)(17), or (b)(4) of this clause, or in accordance with the terms of a license negotiated under paragraph (b)(5) of this clause, or by others to whom the recipient has released or disclosed the data, software, or documentation and to seek relief solely from the party who has improperly used, modified, reproduced, released, performed, displayed, or disclosed Contractor data or software marked with restrictive legands.
- (8) Covered Government support contractors. The Contractor acknowledges that-
- (i) Limited rights technical data and restricted rights computer software are authorized to be released or disclosed to covered Government support contractors;
- (ii) The Contractor will be notified of such release or disclosure;
- (iii) The Contractor may require each such covered Government support contractor to emar into a non-disclosure agreement directly with the Contractor (or the party asserting restrictions as identified in a restrictive legend) regarding the covered Government support contractor's use of such data or software, or alternatively that the Contractor (or party asserting restrictions) may waive in writing the requirement for a non-disclosure agreement;
- (iv) Any such non-disclosure agreement shall address the restrictions on the covered Government support contractor's use of the data or software as set firsts in the clause at 252.227-7025, Limitations on the Use or Disclosure of Government-Furnished information Marked with Restrictive Legends, and shall not include any

AMENDMENT OF SOLIC	ITATION/MODIF	ICATION OF CONTRACT		CONTRACT	ID CODF	PAGEOFF
2 AMENDMENT/MODIFICATION NO	10-18-12	4 REQUISITION/PURCHASE REQ NO HODI47213832			5 PROFCT	NO (If applicable
6 ISSUED BY CODE MISSUE DEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE BLOG 822 MARTIN RD REDSTONE ARSENAL AL 35000-0001	E H00147	7 ADMINISTERED BY (Ifother then turn 6) DOMAMARYLAND 217 EAST REDACOD STREET SUITE 900 BALTIMORE MD 21202-5299		cot	S2101	IA
8 NAME AND ADDRESS OF CONTRACT INTELLIGENT AUTOMATION, INC.	OR (No , Street, County, 5	Sate and Zip Code)	9A	AMENDME	NT OF SOI	ICITATION
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D. OTHER (Specify type of modification	and authority)				4888 3	
IMPORTANT: Contractor is not,	X is required to sign	this document and return 1	copies t	o the issuing	office	
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6 ISSUED BY CODE MISSIE DEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE BLDG S22Z MARTIN RD REDSTONE ARSENAL AL 39996-0001	HQ0147	7 ADMINISTERED BY (If other than item6) DCMAMAPYLAND 217 EAST REDWOOD STREET SUITE 1800 BALTMORE MD 21702-5299	A	CDDF \$210	1A	
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Offer must acknowledge receipt of this amendment p (a) By completing Items 8 and 15, and returning or (c) By separate letter or telegram which includes RECEIVED ATTHE PLACE DESIGNATED FOR REJECTION OF YOUR OFFER. They virtue of this provided each telegramor letter makes reference to 6 12 ACCOUNTING AND APPROPRIATION.	cupies of the smender reference to the solicitation THE RECEIPT OF OFFERS smendment you desire to ch the solicitation and this arrest	ent, (b) By scknowledging receipt of this attendaren n and attendment numbers FAILURE OF YOUR A S PRIOR TO THE HOUR AND DATE SPECIFIED lange an ofter already submitted, such change may b	of on each copy of CKNOWLEDGE MAY RESULT: create by tologra	file of the submatted, MENTIONE IN		
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15B CONTRACTOR/OFFEROR	15C DATE SIGNE	16B (b)(6)			DATE SIG	INED
(Signature of person authorized to sign)		(Signature of Contracting Off	cer)			
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APPROVED BY OIRM 11-84

Prescribed by CSA FAR (48 CFR) 53 243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for CLIN 0001 has been changed from:

	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
	POP 20-APR-2012 TO 19-OCT-2012	N/A	MISSILE DEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147
To:				
	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
	POP 20-APR-2012 TO 19-NOV-2012	N/A	MISSILE DEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147

The following Delivery Schedule item for CLIN 0002 has been changed from:

	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
	POP 20-APR-2012 TO 19-OCT-2012	N/A	MISSILE DEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147
To:				
	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	INC
	POP 20-APR-2012 TO 19-NOV-2012	N/A	MISSILE DEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147

The following Delivery Schedule item for CLIN 0003 has been changed from:

HQ0147

	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
	POP 20-A PR-2012 TO 19-OCT-2012	N/A	MISSILE DEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147
To:				
	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
	POP 20-APR-2012 TO 19-NOV-2012	N/A	MISSILE DEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE BLDG 5222 MARTIN RO REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ0147
The fol	llowing Delivery Schedule it	em for CLIN 0004	has been changed from:	
	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	uic
	POP 20-APR-2012 TO 19-OCT-2012	N/A	MISSILE DEFENSE AGENCY (MDA) CONTRACTS DIRECTORATE BLDG 5222 MARTIN RD REDSTONE ARSENAL AL 35898-0001 FOB: Destination	HQ6147
To:				
	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC

MISSILE DEFENSE AGENCY (MDA)

REDSTONE ARSENAL AL 35898-0001

CONTRACTS DIRECTORATE BLDG 5222 MARTIN RD

FOB: Destination

(End of Summary of Changes)

POP 20-APR-2012 TO

19-NOV-2012

N/A

Intelligent Automation Incorporated

Waveform Agile Telemetry Transmitter (WATT) for Simultaneous Dual S & C-Band Operation

Phase-I STTR, Final Report

Reporting Period:

April 20th, 2012 - November 19th, 2012

STTR Topic #:

MDA11-T004: Dual S & C-Band Telemetry Transmitter System for Missile Testing

Contract No: Submission Date: HQ0147-12-C-7085

November 19th 2012

Sponsored by:

MDA

COTR/TPOC: (b)(6)

Prepared by:

(b)(6)

(Purdue University)

SBIR DATA RIGHTS

Contract No.: HQ0147-12-C-7085

Contractor Name: Intelligent Automation, Inc.

Contractor Address: 15400 Calhoim Drive, Suite 400, Rockville, MD 20855

Expiration of SBIR Data Rights Period: 10/19/2019, unless extended by additional funding, in which case the SBIR Data Rights Period will expire 5 years following termination of such additional funding.

The Government's rights to use, modify, reproduce, release, perform, display, or disclose technical data or computer software marked with this legend are restricted during the period shown as provided in paragraph (b)(4) of the Rights in Noncommercial Technical Data and Computer Software—Small Business Innovative Research (SBIR) Program clause contained in the above identified contract. No restrictions apply after the expiration date shown above. Any reproduction of technical data, computer software, or portions thereof marked with this legend must also reproduce the markings.

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Abstract

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List of Acronyms

CIC- Cascaded Integrator-Comb
COTS-Commercial Off-The-Shelf
CPM-Continuous Phase Modulation
CTE-Coefficient of Thermal Expansion
DSP- Digital Signal Processing
D/A- Digital to Analog
FET-Field Effect Transistor
FPGA-Field Programmable Gate Array
FQPSK- Feher Quadrature Phase Shift Keying
IAI-Intelligent Automation Inc.
IPJ-Integrated Phase Jitter
IQ-In-Phase/ Quadrature
LDO-Low Dropout
MDA-Missile Defense Agency
MEMS- Micro Electro-Mechanical Systems
MMIC-Monolithic Microwave Integrated Circuit
PA-Power Amplifier
PAE-Power Added Efficiency
PCB-Printed Circuit Board
PCM/FM-Pulse Code Modulation/ Frequency Modulation
PU-Purdue University
RMS- Root Mean Square
RF-Radio Frequency
SAW-Surface Acoustic Wave
SOQPSK- Shaped Offset Quadrature Phase-Shift Keying
SWaP-Size, Weight and Power
TCXO-Temperature Compensated Crystal Oscillator
VHDL- VHSIC hardware description language
WATT-Waveform Agile Telemetry Transmitter

1. Introduction and Summary of Tasks Performed

Intelligent Automation Inc. (IAI) and Purdue University (PU) have successfully completed 6-months of the base period and a 1-month no-cost extension of this STTR Phase-I contract. We summarize our Phase-I achievements as follows:

- IAI arranged for an in-person kickoff meeting at IAI office facilities. The meeting was held on May 9, 2012. IAI and Missile Defense Agency (MDA) agreed on monthly telephone meetings for progress updates. Critical requirements for Phase-I were discussed.
- IAI and PU had several telephone meetings during the initial few months of the contract to resolve publications issue and ITAR issues. Those were resolved and PU was officially added under the contract.

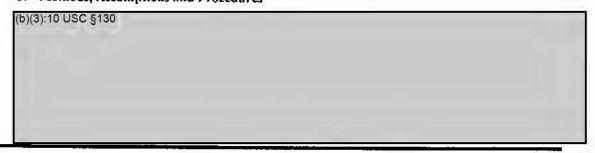
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2. Major Accomplishments



3. Methods, Assumptions and Procedures



(3):10 USC §130		
4. Results and Discussions	-	
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FOIA EXEMPTION (b)(4)

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Intelligent Automation Incorporated

Waveform Agile Telemetry Transmitter (WATT) for Simultaneous Dual S & C-Band Operation

Phase-I STTR, Phase I Midterm Report

Reporting Period: April 20th, 2012 - July 19th, 2012

Contract No. HQ0147-12-C-7085 Sponsored by

MDA		
COTR/TP	OC: (b)(6)	
(b)(6)		

Prepared by

(b)(6)(Purdue University)

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Contractor Name: Intelligent Automation, Inc.

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Phase I Midterm Report Waveform Agile Telemetry Transmitter (WATT) for Simultaneous Dual S & C-**Band Operation**

Submitted in accordance with requirements of MDA STTR Phase I, Contract- HQ0147-12-C-7085

Work performed this reporting period

1.1 Meetings

1.1.1 Meetings with MDA

In this progress period, IAI arranged for an in-person kickoff meeting at IAI office facilities. The meeting was held on May 9, 2012.

IAI and MDA have agreed on monthly telephone meetings for progress updates. The first progress review meeting was held on June 12, 2012. The July status meeting is scheduled for the 24th.

1.1.2 Action Items

The following table lists action items collected from these first two MDA meetings.

Action Item	Assigned to	Required by	Status
Kick Off Meeting Actions from 6/12/	12 telecom		The state of the s
Arrange Monthly Telecoms to discuss project status		Monthly beginning in June	Completed for June
Provide Input to Contracts to clarify this efforts as "Basic Research"	MDA TM	ASAP	Complete
Provide input to Government Contracts office to justify that Purdue's effort is "Basic Research"	IAI	ASAP	Complete

(b)(3):10 USC §130			
Determine whether or not the Phase I hardware can be demonstrated at the	MDA	First week of July	Open
government facility (b)(3):10 USC §130			
New Assigns from 6/12/12 telecom b)(3):10 USC §130 1.1.3 Meetings with Purdue University	PU)		
In this progress period, IAI and PU had sev the discussions were focused on resolvin resolved and PU is officially under contract.	veral telepho		
(b)(3):10 USC §130,(b)(4)			
1.1.4 Investigation of upgrading therma	al specifica	tions for selected comp	oonents
(b)(3):10 USC §130,(b)(4)			

1.2 Technical work performed in this reporting period	
b)(3):10 USC §130,(b)(4)	

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FOIA EXEMPTION (b)(3): 10 USC § 130

And

FOIA EXEMPTION (b)(4)