

# ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH ORDER/AGREEMENT NO. <b>FA8650-13-D-6368</b>	2. DELIVERY ORDER/ CALL NO. <b>0001</b>	3. DATE OF ORDER/CALL (YYYYMMDD) <b>03 SEP 2013</b>	4. REQUISITION/PURCH REQUEST NO. <b>SEE SCHEDULE</b>	5. PRIORITY <b>DO-C9</b>
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6. ISSUED BY AFRL/RQKHA USAF/AFMC <b>(b) (6)</b> <b>(b) (6)</b>	CODE <b>FA8650</b>	7. ADMINISTERED BY (If Other than 6) <b>DCMA MANASSAS</b> <b>(b) (6)</b> <b>SCD: C PAS: (NONE)</b>	CODE <b>S2404A</b>	8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER <small>(See Schedule if other)</small>
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9. CONTRACTOR NAME AND ADDRESS <b>(b) (6)</b> <b>GENERAL DYNAMICS INFORMATION TECHNOLOGY, INC.</b>	CODE <b>07MU1</b>	FACILITY	10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) <b>SEE SCHEDULE</b>	11. X IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED WOMEN-OWNED
			12. DISCOUNT ITEMS <b>N</b>	
13. MAIL INVOICES TO ADDRESS IN BLOCK <b>SEE BLOCK 15 (PAYMENT OFFICE)</b>				

14. SHIP TO <b>SEE SCHEDULE</b>	CODE	15. PAYMENT WILL BE MADE BY <b>DFAS COLUMBUS CENTER</b> <b>(b) (6)</b> <b>EFT:T</b>	CODE <b>HQ0338</b>	MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.
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16. TYPE OF ORDER	DELIVERY/ CALL <input checked="" type="checkbox"/>	PURCHASE <input type="checkbox"/>	This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.		
			Reference your _____ furnish the following on items specified herein.		
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.					

NAME OF CONTRACTOR \_\_\_\_\_ SIGNATURE \_\_\_\_\_ TYPED NAME AND TITLE \_\_\_\_\_ DATE SIGNED (YYYYMMDD) \_\_\_\_\_

If this box is marked, supplier must sign Acceptance and return the following number of copies:

17. ACCOUNTING AND APPROPRIATION DATA/LOCAL USE  
**SEE SCHEDULE**

18. ITEM NO.	19. SCHEDULE OF SUPPLIES/SERVICES	20. QUANTITY ORDERED/ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT

*If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.	24. UNITED STATES OF AMERICA  //signed//  BY: <b>(b) (6)</b>	25. TOTAL <b>(b) (4)</b>  29. DIFFERENCES
		03 SEP 2013 CONTRACTING/ORDERING OFFICER

26. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED	27. SHIP NO.	28. D.O. VOUCHER NO.	30. INITIALS
_____ DATE      SIGNATURE AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	32. PAID BY	33. AMOUNT VERIFIED CORRECT FOR
	32. PAYMENT		34. CHECK NUMBER
36. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT.  _____ DATE      SIGNATURE AND TITLE OF CERTIFYING OFFICER	<input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		35. BILL OF LADING

37. RECEIVED AT	38. RECEIVED BY (Print)	39. DATE RECEIVED (YYYYMMDD)	40. TOTAL CONTAINERS	41. S/R ACCOUNT NO.	42. S/R VOUCHER NO.
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1. In accordance with basic contract Clause B040 "Ordering Procedures", the Contractor shall accomplish the effort as described in the attached Statement of Work (SOW) at Section J.

The following clauses are incorporated in accordance with the Basic IDIQ contract.

**2. SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS:**

**B054 IMPLEMENTATION OF LIMITATION OF FUNDS (DEC 2005)**

Pursuant to the clause FAR 52.232-22 in Section I entitled, "Limitation of Funds", the total amount available for payment and allotted to this contract for all CLINs is (b) (4). It is estimated that this amount is sufficient to cover task order performance through **31 March 2014**. (Government estimate).

**B058 CONTRACT TYPE: COST-PLUS-FIXED-FEE (DEC 2005) (TAILORED)**

The estimated cost and fee for this task order are shown below. The applicable fixed fee set forth below may be increased or decreased only by negotiation and modification of the order for added or deleted work. Fee shall be paid as it accrues, in regular installments based upon the percentage of completion of work.

Estimated Cost: (b) (4)  
 Fixed Fee: (b) (4)  
**Total CPFF: \$(b) (4)**

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
<b>0001</b>		1 Lot	(b) (4) (b) (4)
	<i>Noun:</i>	(b) (4)	
	<i>NSN:</i>	N - Not Applicable	
	<i>DD1423 is Exhibit:</i>	A	
	<i>Contract type:</i>	U - COST PLUS FIXED FEE	
	<i>Inspection:</i>	DESTINATION	
	<i>Acceptance:</i>	DESTINATION	
	<i>FOB:</i>	DESTINATION	
	<i>Descriptive Data:</i>		
	Conduct research in accordance with Statement of Work entitled, "DIRECTED ENERGY BIO-MECHANISMS", dated 12 April 13 in accordance with Section C, Descriptions/Specifications, Attachment 1, Section J hereto. Deliver data in accordance with Exhibit A, Contract Data Requirements List, DD Form 1423-1, dated 26 Nov 12, attached to the basic contract.		
<b>000101</b>	<i>Noun:</i>	Funding Info Only	
	<i>ACRN:</i>	AA (b) (4)	
	<i>PR/MIPR:</i>	F4FBRD3192B002	(b) (4)
<b>000102</b>	<i>Noun:</i>	Funding Info Only	
	<i>ACRN:</i>	AB (b) (4)	
	<i>PR/MIPR:</i>	F4FBRD3212B001	(b) (4)

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
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000103

*Noun:* Funding Info Only  
*ACRN:* AC (b) (4)  
*PR/MIPR:* F4FBRD3219B002 (b) (4)

0002

1  
 Lot (b) (4)  
*Noun:* (b) (4)  
*ACRN:* U  
*NSN:* N - Not Applicable  
*Contract type:* U - COST PLUS FIXED FEE  
*Inspection:* DESTINATION  
*Acceptance:* DESTINATION  
*FOB:* DESTINATION

*Descriptive Data:*  
 Deliver Hardware, in accordance with Section C, Description/Specifications: Statement of Work entitled, "DIRECTED ENERGY BIO-MECHANISMS", dated 12 April 13, Attachment 1 to Section J.

**SECTION I CLAUSE, 252.211-7003 ITEM IDENTIFICATION AND VALUATION (JUN 2011), APPLIES TO THIS EFFORT AS FOLLOWS:**

The contractor shall deliver hardware as required by Statement of Work and in accordance with Clause 252.211-7003, "Item Identification Valuation", the contractor shall provide DoD unique item identification, or a DoD recognized unique identification equivalent for all delivered items for which the government's unit acquisition cost is \$5,000 or more. **For UID purposes, the estimated cost for Hardware is (b) (4)**

0003

1  
 Lot (b) (4)  
*Noun:* (b) (4)  
*ACRN:* U  
*NSN:* N - Not Applicable  
*DD1423 is Exhibit:* A  
*Contract type:* U - COST PLUS FIXED FEE  
*Inspection:* DESTINATION  
*Acceptance:* DESTINATION  
*FOB:* DESTINATION

*Descriptive Data:*  
 Deliver Software in accordance with Section C, Description/Specifications: Statement of Work entitled, "DIRECTED ENERGY BIO-MECHANISMS", dated 12 April 13, Attachment 1 to Section J.

The following clauses are incorporated in accordance with the Basic IDIQ contract.

**3. SECTION C - DESCRIPTION/SPECS/WORK STATEMENT:**

**C003 INCORPORATED DOCUMENTS/REQUIREMENTS (AUG 2006) (TAILORED)**

(a) The following documents are a part of this task order:

Any Attachments and or Exhibits at Section J herein.

**4. SECTION D - PACKAGING AND MARKING**

-- D002 Packaging and Marking (AUG 2005)

**5. SECTION E - INSPECTION AND ACCEPTANCE**

-- E006, "Receiving Report Mailing Address"

The Project Engineer for this Task Order is identified at clause F007 herein.

-- E007 - "Inspection and Acceptance Authority (APR 1998) (TAILORED)" is amended to read as set forth below:

The Project Engineer for this Task Order is identified at clause F007 herein.

Inspection and acceptance for all Contract and Exhibit Lines or Subline Items shall be accomplished by the **Program Manager/Project Engineer, Air Force Research Laboratory, found in Clause F007 herein.**

**6. SECTION F - DELIVERIES OR PERFORMANCE:**

ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0001		1	F4FBRD			05 Dec 2015

*Noun:* (b) (4)  
*ACRN:* 9

*Descriptive Data:*  
 The technical effort must be completed no later than 5 Sept 15. Draft final report due 30 days after end of technical effort. The scheduled delivery date for the approved final technical report is **5 Dec 15**. All data shall be in accordance with Exhibit A, Contract Data Requirements List, DD Form 1423-1 dated 26 Nov 12, attached to the basic contract. See DD Form 1423-1 and Clause F007 for mailing addresses.

ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0002		1	F4FBRD			05 Dec 2015

*Noun:* (b) (4)  
*ACRN:* U

*Descriptive Data:*  
 The scheduled delivery date for the hardware is as reflected herein. See Clause F007 for mailing address(es).

Delivery address for Hardware is:

711 HPW/RHDR  
 4141 Petroleum Rd, Bldg 3260  
 JBSA Ft Sam Houston, TX 78234  
 MARK FOR: PROGRAM MGR/CONTRACT NO.

0003		1	F4FBRD			05 Dec 2015
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*Noun:* (b) (4)  
*ACRN:* U

*Descriptive Data:*  
 The scheduled delivery date for the Software is as reflected hererin. See Clause F007 for mailing addresses.

Delivery address for Software is:

711 HPW/RHDR  
 4141 Petroleum Rd, Bldg 3260  
 JBSA Ft Sam Houston, TX 78234  
 MARK FOR: PROGRAM MGR/CONTRACT NO.

**7. The following clause is incorporated in accordance with the Basic IDIQ contract.**

**F007 SHIPMENT ADDRESS (SEP 1997)**

PROGRAM ENGINEER:

HPW/RHDR

(b) (6)  
 (b) (6)  
 (b) (4)

STINFO:

711 HPW/OMCA

(b) (6)  
 (b) (6)

FINANCE:

711 HPW/RHC

(b) (6)

(b) (6)

(b) (6)

(b) (6)

711 HPW/FM

(b) (6)

(b) (6)

(b) (6)

DCMA/ACO:

See Task Order cover page - Block 7 for address DCMA (ACO) address

CONTRACTS POC

See Task Order cover page- Block 6 for Contracts POC info.

WIDE AREA WORK FLOW (WAWF) ACCEPTOR:

Wide Area Work Flow (WAWF) Acceptor

711 HPW/OMP

(b) (6)

(b) (6)

(b) (6)

**8. SECTION G - CONTRACT ADMINISTRATION DATA AND CLAUSES APPLY IN ACCORDANCE WITH THE BASIC IDIQ CONTRACT. SECTION G APPLIES SPECIFICALLY TO THIS TASK AS SET FORTH BELOW:**

**-G005 PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (MAR 2001)**

Payment for all effort under this contract should be made in the order and amounts shown in the informational subline item(s) in Section B, CLIN 0001 of the contract and recapped below. Exhaust the funds in each ACRN before using funds from the next listed ACRN.

ACRN	SUBCLIN NO.	TOTAL OBLIGATED
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SEE SECTION G FOR THIS INFORMATION: ACRN, SUBCLIN NO., TOTAL OBLIGATED AMOUNT

a. This contract will be funded by multiple accounting classification citations. Payment shall be made from ACRNs in alphabetical order (AA,AB,etc). DO NOT USE A PRORATED METHOD to pay, disburse and liquidate funds. Do not liquidate any funds from an ACRN unless the preceding ACRNs have been fully liquidated, or if revised payment instructions are provided per paragraph b. below.

b. Additional ACRNs will be assigned when new accounting classifications are available. When adding new ACRNs or changing existing ACRNs, the above payment instructions shall apply, unless specific revised payments instructions are provided as part of a contract modification.

-Section G DFARs clause is hereby incorporated: **DFARS 252.204-0007, Contract-Wide: Sequential ACRN Order**

-See Section G clause of the Basic IDIQ contract, clause **252.232-7006, WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (JUN 2012)**, for payment instructions that are incorporated by reference from the basic IDIQ contract. See Clause F007 herein for Program Mgr/Project Engr address information.

ACRN	Appropriation/Lmt Subhead/Supplemental Accounting Data	Obligation Amount
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<b>AA</b>	57 33600 293 47DN 613003 6TRHDR 82100 61102F 503000 F03000 J3D074 <i>Funding breakdown:</i> On CLIN 000101: (b) (4) <i>PR/MIPR:</i> F4FBRD3192B002 (b) (4) JON: 2313HD91 <i>Descriptive data:</i> FSR: 030288 PSR: 192408 DSR: 205782  PR is complete	(b) (4)
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<b>AB</b>	17 31319 W2DV 255 RA309 0 068342 2D 000000 00000000JN20 <i>Funding breakdown:</i> On CLIN 000102: (b) (4) <i>PR/MIPR:</i> F4FBRD3212B001 (b) (4) <i>Descriptive data:</i> MIPR N0001413MP20153 Acct DODAAD 068342'  PR is complete	(b) (4)
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<b>AC</b>	57 33600 293 47A8 627757 6TRHDR 82100 62202F 503000 F03000 J3D089 <i>Funding breakdown:</i> On CLIN 000103: (b) (4) <i>PR/MIPR:</i> F4FBRD3219B002 (b) (4) JON: 7757B360 <i>Descriptive data:</i> FSR: 028928 PSR: 233536 DSR: 163723  PR is complete	(b) (4)
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**SECTION G CONTINUED - CONTRACT ADMINISTRATION DATA AND CLAUSES APPLY IN ACCORDANCE WITH THE BASIC IDIQ CONTRACT. SECTION G APPLIES SPECIFICALLY TO THIS TASK AS SET FORTH BELOW:**

**List of CLINS for FA8650-13-D-6368 0001**

CLIN NO	TOT AMT	NET CHG	NOUN	ACRN	OBL NET CHANGE
0001	(b) (4)		(b) (4)	9	(b) (4) <sup>(b)</sup>
000101		(b) (4)	(b) (4)	AA	(b) (4)
000102		(b) (4)	(b) (4)	AB	(b) (4)
000103		(b) (4)	(b) (4)	AC	(b) (4)
0002		(b) (4)	(b) (4)	U	(b) (4)
0003		(b) (4)	(b) (4)	U	(b) (4)
<hr/>					
	(b) (4)				(b) (4)

--ACRN AA, AB, and AC are established as follows:

**Purchase Requests**

ACRN	DOCUMENT	PR#	AMOUNT
AA	57 33600 293 47DN 613003 6TRHDR 82100 61102F 503000 F03000 J3D074		
	BASIC	F4FBRD3192B002	(b) (4)
ACRN Total		(b) (4)	
AB	17 31319 W2DV 255 RA309 0 068342 2D 000000 00000000JN20		
	BASIC	F4FBRD3212B001	(b) (4)
ACRN Total		(b) (4)	
AC	57 33600 293 47A8 627757 6TRHDR 82100 62202F 503000 F03000 J3D089		
	BASIC	F4FBRD3219B002	(b) (4)
ACRN Total		(b) (4)	
Total Of All ACRNs		(b) (4)	

-G002 Program Manager (May 1997) (Tailored) is modified to read as set forth below:

PROGRAM MANAGER:

HPW/RHDR

(b) (6)

(b) (6)

(b) (6)

See Section F for DoDAAC Code; F4F\_\_\_\_\_

**9. SECTION H - SPECIAL CONTRACT REQUIREMENTS APPLY IN ACCORDANCE WITH THE CLAUSES/PROVISIONS IN THE BASIC IDIQ CONTRACT. SECTION H APPLIES SPECIFICALLY TO THIS TASK ORDER AS SET FORTH BELOW:**

-- H063 CONTRACTOR IDENTIFICATION (FEB 2003)

-- H098 BASE SUPPORT (SEP 2011)

-- H099 EXPORT CONTROLLED DATA RESTRICTIONS (APR 2012)

-- H101 INCORPORATION OF SUBCONTRACTING PLAN (APR 2012)

**10. SECTION I - BASIC IDIQ CONTRACT CLAUSES APPLY AS FOLLOWS IN ACCORDANCE WITH THE CLAUSES/PROVISIONS IN THE BASIC IDIQ CONTRACT. SECTION I APPLIES SPECIFICALLY TO THIS TASK ORDER AS SET FORTH BELOW:**

-- 52.223-03 HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (JAN 1997)

-- 52.251-01 GOVERNMENT SUPPLY SOURCES (APR 2012)

-- 252.222-7006 RESTRICTIONS ON THE USE OF MANDATORY ARBITRATION AGREEMENTS (DEC 2010)

-- 252.223-7001 HAZARD WARNING LABELS (DEC 1991)

-- 252.223-7006 PROHIBITION ON STORAGE AND DISPOSAL OF TOXIC AND HAZARDOUS MATERIALS (APR 2012) - ALTERNATE I, (NOV 1995)

--252.225-7008 RESTRICTION ON ACQUISITION OF SPECIALTY METALS (MAR 2013)

--252.225-7009 RESTRICTION ON ACQUISITION OF CERTAIN ARTICLES CONTAINING SPECIALTY METALS (MAR 2013)

-- 252.225-7048 EXPORT-CONTROLLED ITEMS (JUN 2013)

-- 252.235-7002 ANIMAL WELFARE (DEC 2011)

-- 252.235-7004 PROTECTION OF HUMAN SUBJECTS (JUL 2009)

-- 5352.223-9001 HEALTH AND SAFETY ON GOVERNMENT INSTALLATIONS (NOV 2012)

-- 5352.242-9000 CONTRACTOR ACCESS TO AIR FORCE INSTALLATIONS (NOV 2012)

-- 5352.242-9001 COMMON ACCESS CARDS (CAC) FOR CONTRACTOR PERSONNEL -AFRL (NOV 2012)

-- 252.251-7000 ORDERING FROM GOVERNMENT SUPPLY SOURCES (AUG 2012)

#### 11. SECTION J - LIST OF ATTACHMENTS/EXHIBITS

-Statement of Work at Atch 1, Section J herein.

--Contract Holidays are in the Basic SOW and are incorporated herein by reference.

- DD Form 254 at, Atch 2, Section J herein.

-Exhibit A, Contract Data Items, of the Basic IDIQ apply to this order as follows:

**CDRLS:** A001, A002, A003, A004, A005, A006, A007, A008 & A009

LIST OF ATTACHMENTS

DOCUMENT	PGS	DATE	TITLE
ATTACHMENT 1	8	12 APR 2013	STATEMENT OF WORK ENTITLED, "DIRECTED ENERGY BIO-MECHANISMS"
ATTACHMENT 2	5	15 AUG 2013	DD 254 SECURITY REQUIREMENTS

## **STATEMENT OF WORK**

### **Task Order 0001 SOW – Directed Energy Bio-Mechanisms**

**1.0 SCOPE.** Basic scientific data shall be collected for a variety of models, from cell to animal, to increase the understanding of the impact of RF energies (DC-THz). This task shall specifically focus on understanding the underlying biophysical mechanism(s) of DE exposure. Cellular exposure to a variety of unique DE waveforms shall be performed to understand the type of stress elicited on the cell as well as the cellular response following the stimulus be it genetic, proteomic, or metabolomic in nature. Novel techniques for analysis of the cellular response using imaging, biochemical, or biophysical modalities shall be devised as needed to reach an experimental endpoint. Small animal models shall also be used to understand the impact of such energies on the biological system. Multiple endpoints are of interest across many systems with the organism. Novel techniques for the analysis of animal response to stimulus shall be devised as needed to reach an experimental endpoint. Specific focus shall be given to dosimetry of the exposure and animal requiring modeling capability for RF frequencies. These modeling efforts shall include the RF exposure mapping, biological response, or genetic pathway analysis.

Conduct proteomic, genomic, and metabolomic studies that identify critical biochemical or molecular changes following exposure to DE prior to or during mission operations that assists in the prediction of health degradation. The goal shall investigate basic mechanism(s) of interactions between biology and RF radiation (DC-THz); and to uncover previously unknown bioeffects of RF exposure that may provide a defensive or offensive capability to the Air Force. Conduct and design laboratory and field research and testing of the bioeffects of RF and DEW systems hardware and software.

### **2.0 APPLICABLE DOCUMENTS.**

### **3.0 REQUIREMENTS.**

#### **3.1. Research Descriptions.**

**3.1.1. Genomics.** Analysis of cellular deoxyribonucleic acid (DNA), gene expression, and epigenetic regulation.

3.1.1.1 Extraction and purification of cellular ribonucleic acid (RNA).

3.1.1.2 Quantitation of total RNA by spectrophotometry.

3.1.1.3 Quality control of total RNA by denaturing agarose gel electrophoresis.

3.1.1.4 Analysis of data from gene expression arrays (Affymetrix).

3.1.1.5 Evaluation of protein functions in signal transduction pathways. Quantitative real-time reverse-transcription polymerase chain reaction (Roche, ABI), data analysis, and statistics.

**3.1.2. Proteomics.** Analysis of protein profiles, levels, and modifications.

3.1.2.1. Protein/peptide purification by high performance liquid chromatography (Waters).

3.1.2.2. Extraction and purification of proteins from cell lysates.

3.1.2.3. Quantitation of proteins by colorimetric assay and spectrophotometry.

3.1.2.4. One-dimensional (1D) analysis of proteins by denaturing polyacrylamide gel electrophoresis (PAGE). a) Two-dimensional (2D) analysis of proteins by PAGE; b) Immunoblot following 1D- or 2D-PAGE; c) Staining of PAGE gels (fluorescent dye, silver stain) and scanning; d) Computer-assisted quantitative comparison of 2D gels using PDQuest software; e) Peptide preparation of protein extracts for mass spectrometry; f) Mass spectrometry (Finnigan) using protein separation by capillary column, nanospray (NSI) - or matrix assisted laser desorption (MALDI) ionization methods, and time-of-flight (TOF) mass analysis; g) Computer-assisted mass spectrometric data analysis using Xcalibur and BioWorks (Finnigan) and BLAST software for peptide identification.

**3.1.3. Metabolomics.** Analysis of small molecule metabolites.

3.1.3.1. Analysis of data from real-time gas detectors.

3.1.3.2. Analysis of hydrocarbon-specific data from gas chromatographs.

3.1.3.3. Analysis of metabolomic biproducts as indication of activity in cells

**3.1.4. Immunology.** Analysis of immune cell functions, cytokine expression, innate and adaptive responses, cellular and humoral immunity.

3.1.4.1. Immune cell culture and activation.

3.1.4.1.2. Immune cell proteomics.

3.1.4.1.3. Enzyme-linked immunosorbent assays.

3.1.4.1.4. Fluorescent immunoassays.

**3.1.5. Cell Culture.** In vitro culturing of mammalian cells.

3.1.5.1. Culturing of immune cells, fibroblasts, and keratinocytes.

3.1.5.2. Cryo-preservation of cells.

3.1.5.3. In situ assays for apoptosis, cell proliferation, and vital staining.

3.1.5.4. Cellular transfection/geneomic modification of cell cultures

**3.1.6. Animal Subjects Research.** Laboratory rats and pigs shall be the primary animal model used for molecular bioeffects research. Virtually all tissue types, body fluids, and breath shall be analyzed. All animal research shall be performed under approved protocols in accordance with federal and institutional requirements and is supervised by the veterinary branch 711 HPW/RHDV.

3.1.6.1. Short-term husbandry, dietary planning and care.

3.1.6.2. Experimental handling, including anesthesia and microwave exposure.

3.1.6.3. Biopsy/necropsy, sample collection and preservation from all tissue types.

3.1.6.4. Human subjects research. Molecular bioeffects shall also be determined with human research subjects. This type of research shall be performed under approved protocols in strict accordance with federal, military, and institutional requirements.

3.1.6.5. Saliva collection by anonymous donation (designated "Exempt from Review" by the Institutional Review Board).

3.1.6.6. Saliva proteomics and small molecule analysis.

**3.1.7. Pathology.** In collaboration with the veterinary branch 711 HPW/RHDV, the biological effects of microwave exposure shall be studied microscopically at the cellular and tissue levels.

3.1.7.1. Histology with tissue sectioning and staining.

3.1.7.2. Immunohistochemistry and immunofluorescence with tissue sections.

3.1.7.3. Quantitative scoring of histological phenotypes.

3.1.7.4. Laser-assisted micro-dissection of tissue sections for molecular analysis.

**3.1.8. Bioinformatics.** Overlapping with efforts in genomics, proteomics, and metabolomics, molecular bioeffects researchers shall also use bioinformatic methods.

3.1.8.1. Computer-based data management.

3.1.8.2. Sample statistics and probability testing.

3.1.8.3. Analysis of Affymetrix gene chip data.

3.1.8.4. Predictive modeling of cellular signal transduction, assessment of impact of bioeffects on body systems, and associating molecular function with physiological response and disease.

3.1.8.5. Microwave exposure, biological modeling and simulations. At present, the prediction of biological effects of directed energy applications is limited by the relatively macroscopic nature of models. Recent advances in micro-dosimetry and the capacity to apply genomic and proteomic methods to single cell entities, now permit the development of more sophisticated model systems.

3.1.8.6. Analysis of infrared and conventional thermometry data.

3.1.8.7. Efforts to model microwave exposure at the tissue, cellular, and sub-cellular levels.

### **3.1.9. Microscopy.**

3.1.9.1. Use of fluorescent microscopy system

3.1.9.2. Use of confocal fluorescent microscopy system

3.1.9.3. Use of conventional microscopy system with cells and tissues

### **3.1.10. Electrophysiology.**

3.1.10.1. Application of fundamental cellular electrophysiology during RF exposures

3.1.10.2. Analysis of ion channel activity during RF exposure

3.1.10.3. Analysis of electrophysiological data obtained via patch clamp

**3.2. Research Planning.** To pursue relevant research objectives within mission requirements, the government lead scientist will provide an annual task plan which reflects the priorities of the Branch in Biotechnology research and which is congruent with the research needs of the customer. The contractor will designate a scientist as subtask leader to act as the intellectual center. The subtask leader shall coordinate and perform research within a specific subtask and work with a subset of team members having the appropriate expertise.

3.2.1. Prior to the initiation of research, the subtask leader shall develop and deliver a subtask outline.

3.2.2. The subtask outline shall exhibit the following structure, which essentially follows that of a scientific publication: 1) Introduction - Literature review, rationale, and hypothesis; 2) Materials and methods - A

description of the major procedures and requirements; 3) Results - The number and scope of experiments and anticipated outcomes; 4) Discussion - Meaning and context of expected results; 5) Bibliography - References for publications relevant for subtask research; 6) Estimated manpower involvement and costs; 7) Estimated material costs; and 8) Estimated schedule of performance.

**3.3. Experimentation.** To obtain the highest quality of data from research, each scientist shall be expected to do the following:

3.3.1. Develop/adapt protocols from published sources, manufacturer brochures, and laboratory manuals.

3.3.2. Approach pilot studies and large experiments with the same attention to detail, to assure that the experimental outcome, while not being predictable, shall nevertheless be fully traceable to specific starting materials and a reproducible method of investigation.

3.3.3. Perform experiments in a consistent manner, including appropriate controls and independent repetitions of assays to obtain statistically significant insights.

3.3.4. Follow science documentation procedures as specified by government managers.

**3.4. Research Communications.** Scientists involved at any level in molecular bioeffects research shall be expected to:

3.4.1. Prepare abstracts, posters, platform talks for and present at scientific conferences.

3.4.2. Prepare Technical Reports according to Air Force Science and Technology Information Office (STINFO) requirements, documenting laboratory-specific research methods, procedures, or protocols.

3.4.3. Publishing experimental results is an integral part of scientific investigation. The results and conclusions of each subtask-specific research shall be published within the period of subtask performance. All team members shall be expected to contribute their expertise and partake in the preparation of manuscripts; subtask leaders shall:

3.4.3.1. Coordinate the synthesis of collected accomplishments, results, insights, and assessments of subtask research as framework for a manuscript.

3.4.3.2. Prepare Technical Reports according to STINFO requirements to document the completion of subtask research in case classified data is involved.

3.4.3.3. Prepare manuscripts for peer-review and publication according to the Instructions for Authors of an appropriate scientific journal, documenting the completion of a subtask which contains unclassified data.

3.4.3.4. Coordinate drafting/revising and complete editing of reports/manuscripts within the IRT until they are ready for submission to STINFO or a scientific journal.

**3.5. Integrated Research Team.** To sustain the productivity of the research effort, the following activities shall be coordinated within the IRT and specific members designated for responsibility:

3.5.1. Accounting for and storing of supplies in approved locations.

3.5.2. Facilitating disposal of hazardous laboratory waste.

3.5.3. Storing and inventorying of research samples in freezers and refrigerators.

3.5.4. Maintaining gas supplies for cryo-storage units, back-up refrigerant, and cell culture incubators.

3.5.5. Preparing common stock solutions and reagents.

3.5.6. Facilitating supplies requisition and the receiving of shipments.

3.5.7. Interfacing between the veterinary unit 711 HPW/RHDV and the Branch.

**3.6. Research Compliance Management.** Research performance is subject to federal, civil, and military regulation with respect to human and animal research subjects and occupational safety, as well as national security. The contractor shall comply with the following regulations:

3.6.1. Security. The contractor shall comply with all applicable Air Force regulations pertaining to Operational Security (OPSEC) and Computer Security (COMPSEC).

3.6.2. Protection of Human Subjects. The contractor shall comply, as appropriate, with the provisions of the following regulations, directives, and instructions: 1) Department of Defense, Title 32, Code of Federal Regulations, Part 219 (32 CFR 219), "Protection of Human Subjects" (Jul 2004); 2) DHHS Regulations, Title 45, Code of Federal Regulations, Part 46 (45 CFR 46), "Protection of Human Subjects" (Oct 2004); 3) DoD Directive 3216.2, "Protection of Human Subjects and Adherence to Ethical Standards in DoD-Supported Research," (25 Mar 2002); 4) Air Force Instruction 40-402, "Protection of Human Subjects in Biomedical and Behavioral Research" (Sep 2000); 5) AFRL Instruction 40-402, "Using Human Subjects in Research, Development, Test and Evaluation" (Feb 1999).

3.6.3. The contractor shall train, inform, and obtain consent from human subjects per approved protocols. Secure records associated with human subjects research shall be maintained as required by the approved protocols. Human testing shall not commence until approval from the Air Force IRB has been obtained. The contractor shall establish a Federal Wide Assurance, for the Protection of Human Subjects.

3.6.4. Protection of Animal Subjects. The contractor shall comply, as appropriate, with the provisions of the following guide: "Guide for the Care and Use of Laboratory Animals," prepared by the Committee on Care and Use of Laboratory Animals of the Institute of Laboratory Animal Resources, National Research Council (NIH Publication No. 86-23, Revised 1996). The contractor shall maintain records associated with animal subjects research as required by the approved protocol. Animal testing shall not commence until approval from the Air Force Institutional Animal Care and Use Committee has been obtained.

3.6.5. Comply with Air Force (AF) regulations in operations security (OPSEC) and communications security (COMSEC) as necessary.

**3.7. Material Management.** Cutting edge research in molecular bioeffects requires sophisticated instrumentation, associated maintenance contracts, and quality supplies from a variety of specialty vendors. The contractor shall:

3.7.1. Procure and set up allowable equipment in compliance with COMPSEC regulations as necessary.

3.7.2. Account for equipment and software licenses.

3.7.3. Assure maintenance and calibration of instruments.

3.7.4. Purchase consumables, reagents, supplies, and laboratory animals following regulatory requirements.

3.7.5. Account for and report expenditures for all research materials.

#### **4.0 OTHER REQUIREMENTS.**

**4.1. Hazardous Waste.** The contractor shall use hazardous materials in research studies under this effort. Contractors shall be required to complete Fort Sam Houston hazardous materials training. All hazardous waste shall be disposed of by the government.

**4.2. Human Use.** The contractor shall use human subjects in research studies under this effort. The final contract shall include the clause entitled "Protection of Human Subjects." For the performance of the contract, the contractor shall comply with the provisions of the following directives/regulations:

4.2.1. Department of Defense, Title 32, Code of Federal Regulations, Part 219 (32 CFR 219), "Protection of Human Subjects" July 2006

4.2.2. DHHS Regulations, Title 45, Code of Federal Regulations, Part 46 (45 CFR 46) "Protection of Human Subjects," July 2009

4.2.3. DoD Instruction 3216.02, "Protection of Human Subjects and Adherence to Ethical Standards in DoD Supported Research," November 2011

4.2.4. Air Force Instruction 40-402, "Protection of Human Subjects in Biomedical and Behavioral Research, (May 2005);" and (v) AFRL Instruction 40-402, "Using Human Subjects in Research, Development, Test, and Evaluation" (October 2008).

4.2.5. Contractor personnel performing human use research shall be required to take government sponsored initial and annual refreshers "Basic Human Subjects - Biomedical & Social & Behavioral Focus" Human testing shall not commence until approval from the Air Force IRB has been obtained.

**4.3. Animal Use.**

4.3.1. The contractor shall use animals in research studies under this effort. The contractor shall comply, as appropriate, with the provisions of the following directives/regulations: 1) Air Force Manual 40-401(I), "The Care and Use of Laboratory Animals in DoD Programs", July 2006; and 2) "DoD Instruction 3216.01, "Use of Animals in DoD Programs," September 2010.

4.3.2. Moreover, the contractor shall maintain records associated with animal subjects research as required by the approved protocol.

4.3.3. Contractor personnel performing animal use research shall be required to take government sponsored initial and annual refreshers training as prescribed by the on-site Veterinarian

4.3.4. Contractor personnel working with animals shall be required to have an annual "negative" Tuberculosis (TB) test at the expense of the contractor. Animal testing shall not commence until approval from the Air Force Institutional Animal Care and Use Committee has been obtained.

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				1. CLEARANCE AND SAFEGUARDING			
				a. FACILITY CLEARANCE REQUIRED		(b) (3) (B)	
				b. LEVEL OF SAFEGUARDING REQUIRED		N/A	
2. THIS SPECIFICATION IS FOR: <i>(X and complete as applicable)</i>				3. THIS SPECIFICATION IS: <i>(X and complete as applicable)</i>			
<input checked="" type="checkbox"/>	a. PRIME CONTRACT NUMBER FA8650-13-D-6368, TO-0001			<input checked="" type="checkbox"/>	a. ORIGINAL <i>(Complete date in all cases)</i>		DATE (YYYYMMDD) 20130815
	b. SUBCONTRACT NUMBER				b. REVISED <i>(Supersedes all previous specs)</i>	REVISION NO.	DATE (YYYYMMDD)
	c. SOLICITATION OR OTHER NUMBER	DUE DATE (YYYYMMDD)			c. FINAL <i>(Complete Item 5 in all cases)</i>		DATE (YYYYMMDD)
4. IS THIS A FOLLOW-ON CONTRACT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under _____ <i>(Preceding Contract Number)</i> is transferred to this follow-on contract.							
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____							
6. CONTRACTOR <i>(Include Commercial and Government Entity (CAGE) Code)</i>							
a. NAME, ADDRESS, AND ZIP CODE General Dynamics Information Technology Inc (b) (6)			b. CAGE CODE 0GR87	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> Defense Security Service (IOFND) (b) (6)			
7. SUBCONTRACTOR							
a. NAME, ADDRESS, AND ZIP CODE N/A			b. CAGE CODE N/A	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> N/A			
8. ACTUAL PERFORMANCE							
a. LOCATION See Blk 13			b. CAGE CODE N/A	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> N/A			
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT The overall goal of this effort is to generate basic scientific data detailing the fundamental biological effects of radio frequency radiation from DC-THz. This data must encapsulate the short and long term biological response to understand the entire lifecycle of exposure. This data will be used to: 1) form the fundamental theories behind directed energy technologies, 2) support and help evolve current military exposure standards to provide maximal exploitation of RF technologies while protecting civilian and soldier safety, 3) feed into existing exposure effects databases to support decision support tool generation.							
10. CONTRACTOR WILL REQUIRE ACCESS TO:				11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:			
	YES	NO			YES	NO	
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		<input checked="" type="checkbox"/>		a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	<input checked="" type="checkbox"/>		
b. RESTRICTED DATA		<input checked="" type="checkbox"/>		b. RECEIVE CLASSIFIED DOCUMENTS ONLY		<input checked="" type="checkbox"/>	
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		<input checked="" type="checkbox"/>		c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		<input checked="" type="checkbox"/>	
d. FORMERLY RESTRICTED DATA		<input checked="" type="checkbox"/>		d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		<input checked="" type="checkbox"/>	
e. INTELLIGENCE INFORMATION		<input checked="" type="checkbox"/>		e. PERFORM SERVICES ONLY		<input checked="" type="checkbox"/>	
(1) Sensitive Compartmented Information (SCI)	<input checked="" type="checkbox"/>			f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES		<input checked="" type="checkbox"/>	
(2) Non-SCI	<input checked="" type="checkbox"/>			g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	<input checked="" type="checkbox"/>		
f. SPECIAL ACCESS INFORMATION	<input checked="" type="checkbox"/>			h. REQUIRE A COMSEC ACCOUNT		<input checked="" type="checkbox"/>	
g. NATO INFORMATION	<input checked="" type="checkbox"/>			i. HAVE TEMPEST REQUIREMENTS		<input checked="" type="checkbox"/>	
h. FOREIGN GOVERNMENT INFORMATION	<input checked="" type="checkbox"/>			j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	<input checked="" type="checkbox"/>		
i. LIMITED DISSEMINATION INFORMATION		<input checked="" type="checkbox"/>		k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		<input checked="" type="checkbox"/>	
j. FCR OFFICIAL USE ONLY INFORMATION	<input checked="" type="checkbox"/>			l. OTHER <i>(Specify)</i>	<input checked="" type="checkbox"/>		
k. OTHER <i>(Specify)</i>		<input checked="" type="checkbox"/>		AFFARS 5352.204-9000 applies. See Blk 13.			

DD FORM 254, DEC 1999

PREVIOUS EDITION IS OBSOLETE.

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**12. PUBLIC RELEASE.** Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release  Direct  Through (Specify)

Joint Base San Antonio (JBSA) Public Affairs

Public release of sensitive compartmented information is not authorized.

Ref Blk 10f: See Special Access Information addendum for details.

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)\* for review.

\*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

**13. SECURITY GUIDANCE.** The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)

The National Industrial Security Program Operating Manual (NISPOM), Feb 06, applies.

The DoD security classification guide entitled "Joint Non-Lethal Weapons Program," dated October 1999, the HQ USAF SCG for Directed Energy (DE) Weapon and Counter High Power Microwave (CHPM) Weapon Technology SCG dated 21 June 1999 shall be used when determining the classification of most data under this contract.

Item 8a. Work performed under this contract will be at (b) (6) & elsewhere as directed by the program manager including military installations & approved contractor operated secure facilities.

Ref Blk 10e(1): Contractor requires access to SCI materials; SCI security requirements apply, (see 21 IS/INS, SSO WPAFB, SCI addendum, for details).

Ref Blk 10e(2): Contractor will require access to intelligence information and must comply with AFI 14-303/AFMC Supplement 1. The Program Manager has determined that disclosure does not create an unfair competitive advantage for the contractor or a conflict of interest with the contractor's obligation to protect the information and will submit the AFMC Form 210 to AFRL/RYOY for approval prior to granting access.

(b) (6)

**14. ADDITIONAL SECURITY REQUIREMENTS.** Requirements, in addition to ISM requirements, are established for this contract.  Yes  No  
(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.)

Ref Blk 10e(1): SCI security requirements apply, see SCI addendum for details. Ref Blk 10e(2): Access to SIPRNET is required.

Ref Blk 10f: See Special Access Information addendum for details

Ref Blk 11j: OPSEC requirements apply. See Statement of Objectives (SOO) for requirements.

**15. INSPECTIONS.** Elements of this contract are outside the inspection responsibility of the cognizant security office.  Yes  No  
(If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.)

Ref Blk 10e(1): SCI security requirements apply, see SCI addendum (para 13) for details.

Ref Blk 10f: See Special Access Information addendum for details

Ref Blk 11i: Contractor performance will occur at JBSA Ft Sam Houston, TX. DSS is relieved of all inspection responsibilities for contractor performance on the installation. 502 ABW/IP will maintain security oversight.

**16. CERTIFICATION AND SIGNATURE.** Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL

(b) (6)

b. TITLE

CONTRACTING OFFICER

c. TELEPHONE (Include Area Code)

(b) (6)

d. ADDRESS (Include Zip Code)

AFRL/RQKHA

(b) (6)

(b) (6)

**17. REQUIRED DISTRIBUTION**

- a. CONTRACTOR
- b. SUBCONTRACTOR
- c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
- d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
- e. ADMINISTRATIVE CONTRACTING OFFICER
- f. OTHERS AS NECESSARY

**Block 12:**

Public release of Sensitive Compartmented Information (SCI) is NOT authorized.

Ref Blk 10f: See Special Access Information addendum for details

**Block 13:**

Servicing IP: (b) (6)

Program Manager: (b) (6)

Servicing SSO: (b) (6)

Chief of Security: (b) (6)

The DoD security classification guide entitled "Joint Non-Lethal Weapons Program," dated October 1999, the HQ USAF SCG for Directed Energy (DE) Weapon and Counter High Power Microwave (CHPM) Weapon Technology SCG dated 21 June 1999 shall be used when determining the classification of most data under this contract.

Item 8a. Work performed under this contract will be at 711 HPW/RHD (b) (6) & elsewhere as directed by the program manager including military installations & approved contractor operated secure facilities.

Ref Blk 10e(1): Contractor requires access to SCI materials; SCI security requirements apply, (see 21 IS/INS, SSO WPAFB, SCI addendum, for details).

Ref Blk 10e(1): Contractor requires access to SCI materials; SCI security requirements apply, see SCI addendum for details.

Ref Blk 10e(2): Contractor will require access to intelligence information and must comply with AFI 14-303/AFMC Supplement 1. The Program Manager has determined that disclosure does not create an unfair competitive advantage for the contractor or a conflict of interest with the contractor's obligation to protect the information and will submit the AFMC Form 210 to AFRL/RYOY for approval prior to granting access.

Ref Blk 10e(2): Access to SIPRNET is required.

Ref Blk 10f: See Special Access Information addendum for details

Ref Blk 10g: NATO briefing required prior to granting access. See NISPOM Chapter 10 for details.

Ref Blk 10j: See DoDM 5200.01, Volume 4, DoD Information Security Program: Controlled Unclassified Information (CUI), Enclosures 3 & 4 and DoD 5400.7-R/Air Force Manual 33-302, DoD Freedom of Information Act (FOIA) Program, for requirements.

Ref Blk 11a: Using activity will provide security classification guidance for performance on this contract. On base performance in support of 711 HPW/RHDR will occur in (b) (6) If any classified information is generated in the performance of this contract at the identified location, the contractor shall apply derivative classification and markings consistent with the source material.

Ref Blks 10a/11h: COMSEC/Cryptologic, Safeguarding requirements apply. See AFI 33-201 Volume 2, *Communications Security (COMSEC) User Requirement* for details.

Ref Blk 11i: Provide the information requested by the Notification of Government Security Activity and Visitor Group Security Agreements clause, Air Force Federal Acquisition Regulation Supplement (AFFARS) 5352.204-9000, to 88 ABW/IPD, 1801 10th St, WPAFB OH 45433-7625.

Ref Blk 17e (ACO): AFLCMC/PZIEA, (b) (6)

Ref Blk 17f (DISTRIBUTION):

502d ABW/IP, (b) (6) (b) (6)

88 ABW/IPD, (b) (6) (b) (6)

AFRL: (b) (6) AFRL/RYOY, (b) (6) (b) (6)

21 IS/INS, SSO WPAFB (b) (6)

711 HPW/OMS, (b) (6) (b) (6)

**Block 14:**

DoD Manual 5105.21, Vols 1 -3, dated 19 Oct 12 and AFMAN 14-304; DCID 6/1, w/ ICPM 2006-700-8; ICD 701, ICD 702, DCID 6-03 w/ICPM 2006-700-9, ICD 704/ICPGs 704.1. ICPG 704.2, ICPG 704.3, ICPG 704.4, ICD 710, DCID 6-06; DCID 6-07, ICD 705, ICS 705-1; ICD 503, Joint DoDISS/Cryptologic SCI Information Systems Security Standards (JDCSISSS) and DoD Joint Security Implementation Guide (DJSIG), dated June 2011 provides the necessary guidance for physical, personnel, industrial, information, and information systems security measures and are part of the Sensitive Compartmented Information (SCI) security specifications for the contract.

- a. Ref Blk 10e(1): SCI security requirements apply, see SCI addendum for details.
- b. Ref Blk 10k: Program Protection Plan (PPP) will be provided by the Government activity.
- c. Ref Blk 11i: EMSEC requirements apply to the SCIF execution location see DFARS Clause 252.239-7000, Protection Against Compromising Emanations: ICD 705, Technical Specifications V-2: NSTISSAM TEMPEST/2-95, Red/Black Installation Guide, dated 12 Dec 95: and NSTISSAM TEMPEST 2/95a, Addendum to Red/Black Installation Guide, dated 03 Feb 00.
- d. Ref Blk 11j: OPSEC requirements may apply in future delivery orders. Each delivery order will provide specific guidance.

**Block 15:**

Ref Blk 10e(1): SCI security requirements apply, see SCI addendum (para 13) for details.

Ref Blk 10f: See Special Access Information addendum for details

Ref Blk 11i: Contractor performance will occur at JBSA Ft Sam Houston, TX. DSS is relieved of all inspection responsibilities for contractor performance on the installation. 502d ABW/IP will maintain security oversight.

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(b) (3) (B)