

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH ORDER/AGREEMENT NO. FA8650-13-D-6368	2. DELIVERY ORDER/ CALL NO. 0006	3. DATE OF ORDER/CALL (YYYYMMDD) 24 NOV 2014	4. REQUISITION/PURCH REQUEST NO. SEE SCHEDULE	5. PRIORITY DO-C9
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6. ISSUED BY AFRL/RQKHB USAF/AFMC (b) (6) (b) (6)	CODE FA8650	7. ADMINISTERED BY (If Other than 6) DCMA MANASSAS (b) (6) SCD: C PAS: (NONE)	CODE S2404A	8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER <small>(See Schedule if other)</small>
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9. CONTRACTOR GENERAL DYNAMICS INFORMATION TECHNOLOGY, INC. NAME AND ADDRESS (b) (6)	CODE 07MU1	FACILITY	10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE	11. X IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED WOMEN-OWNED
			12. DISCOUNT ITEMS N	
13. MAIL INVOICES TO ADDRESS IN BLOCK SEE BLOCK 15 (PAYMENT OFFICE)				

14. SHIP TO SEE SCHEDULE	CODE	15. PAYMENT WILL BE MADE BY DFAS COLUMBUS CENTER (b) (6) EFT:T	CODE HQ0338	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"/>	This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.
	PURCHASE		
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)
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If this box is marked, supplier must sign Acceptance and return the following number of copies: **1**

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) (6)	25. TOTAL (b) (4) 29. DIFFERENCES
		24 NOV 2014 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 DATE _____ SIGNATURE AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE _____	27. SHIP NO.	28. D.O. VOUCHER NO.	30. INITIALS
		32. PAID BY <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	33. AMOUNT VERIFIED CORRECT FOR
36. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT. DATE _____ SIGNATURE AND TITLE OF CERTIFYING OFFICER _____		32. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	34. CHECK NUMBER 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 **30 December 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
0001		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 the Statement of Work entitled, "NOVEL DIRECT ENERGY WEAPON EFFECTS", dated 05 SEPT 2014 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.		
000101	<i>Noun:</i>	Funding Info Only	
	<i>ACRN:</i>	AA (b) (4)	
	<i>PR/MIPR:</i>	F4FBRD4176B001	(b) (4)
000102	<i>Noun:</i>	Funding Info Only	
	<i>ACRN:</i>	AB (b) (4)	
	<i>PR/MIPR:</i>	F4FBRD4253B003-001	(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: F4FBRD4253B002 (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, "NOVEL DIRECT ENERGY WEAPON EFFECTS", dated **05 SEP 2014**, at 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.

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, "NOVEL DIRECT ENERGY WEAPON EFFECTS", dated **05 SEPT 2014**, at 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, SECTION J:

- Attachment 1, Statement of Work, Novel Direct Energy Weapon Effects, dated 05 Sept 2014.
- Exhibit A, DD Form 254 Security Requirements.

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			17 Feb 2020

Noun: (b) (4)

ACRN: 9

Descriptive Data:

The technical effort must be completed no later than **17 Nov 2019**. Draft final report due 30 days after end of technical effort. The scheduled delivery date for the approved final technical report is **17 Feb 2020**. 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	F4FBRD		17 Feb 2020

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
 (b) (6)

MARK FOR: PROGRAM MGR/CONTRACT NO.

0003		1	F4FBRD	F4FBRD		17 Feb 2020
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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
 (b) (6)

MARK FOR: PROGRAM MGR/CONTRACT NO.

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

Clause F007

PROGRAM ENGINEER:
 HPW/RHDR

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

STINFO:
 711 HPW/OMCA

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

FINANCE:

711 HPW/RHD

(b) (6)

(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 AS FOLLOWS:

-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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AA

97 40130 1833 AC447HP6330703HU08W8210063115F503000F03000

(b) (4)

Funding breakdown: On CLIN 000101: (b) (4)*PR/MIPR:* F4FBRD4176B001 (b) (4)*ESP:* GM*Descriptive data:**PR Info:*

PR #: F4FBRD4176B001

Basic, dated 30 Jun 2014

FSR: 023401

PSR: 252840

DSR: 117850

ESP: GM*CSN:* _44300

PR is Complete.

AB

57 43600 294 47DN 613003 6TRHDR 82100 61102F 503000 F03000 J4D346

(b) (4)

Funding breakdown: On CLIN 000102: \$(b) (4)*PR/MIPR:* F4FBRD4253B003-001 (b) (4)*JON:* 2313HD91*Descriptive data:**PR Info:*

PR #: F4FBRD4253B003

Basic, dated 11 SEP 2014

FSR: 016130

PSR: 507079

DSR: 105354

PR is Complete.

PR Info:

PR #: F4FBRD4253B003

Amend 001, dated 14 Oct 2014

FSR: 016130

PSR: 507079

DSR: 105354

PR is Complete.

ACRN Appropriation/Lmt Subhead/Supplemental Accounting Data Obligation
Amount

AC (b) (4)
 57 43600 294 47A8 627757 6TRHDR 82100 62202F 503000 F03000 J4D345
Funding breakdown: On CLIN 000103: (b) (4)
PR/MIPR: F4FBRD4253B002 (b) (4)
JON: 7757B360
Descriptive data:
 PR Info:

 PR #: F4FBRD4253B002
 Basic, dated 10 SEP 2014

 FSR: 014590
 PSR: 507071
 DSR: 162795

 PR is Complete.

SECTION G CONTINUED:

Recap of funding from Reports is inserted herein

List of CLINS for FA8650-13-D-6368 0006

CLIN NO	TOT AMT	NET	CHG	NOUN	ACRN	OBL	NET	CHANGE
0001	(b) (4)			(b) (4)	9			(b) (4)
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)
	(b) (4)							(b) (4)

-- Clause G002 is incorporated as set forth:

G002 PROGRAM MANAGER FOR THIS EFFORT IS:

HPW/RHDR

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

See Section F for DoDAAC Code; F4FBRD

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

- Attachment 1, Statement of Work, Novel Direct Energy Weapon Effects, dated 05 Sept 2014.
- Exhibit A, DD Form 254 Security Requirements.

--Contract Holidays are in the Basic SOW and are incorporated herein by reference.
-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
EXHIBIT A	25	12 NOV 2014	DD254 DOD CONTRACT SECURITY CLASSIFICATION SPECIFICATION
ATTACHMENT 1	8	05 SEP 2014	STATEMENT OF WORK ENTITLED: MODELING AND SIMULATION OF RADIO FREQUENCY BIOEFFECTS

**DEPARTMENT OF DEFENSE
CONTRACT SECURITY CLASSIFICATION SPECIFICATION**
*(The requirements of the DoD Industrial Security Manual apply
to all security aspects of this effort.)*

1. CLEARANCE AND SAFEGUARDING

a. FACILITY CLEARANCE REQUIRED
(b) (3) (B)

b. LEVEL OF SAFEGUARDING REQUIRED
N/A

2. THIS SPECIFICATION IS FOR: *(X and complete as applicable)*

a. PRIME CONTRACT NUMBER
FA8650-13-D-6368, TO-0006

b. SUBCONTRACT NUMBER

c. SOLICITATION OR OTHER NUMBER DUE DATE (YYYYMMDD)

3. THIS SPECIFICATION IS: *(X and complete as applicable)*

a. ORIGINAL *(Complete date in all cases)* DATE (YYYYMMDD)
20130815

b. REVISED *(Supersedes all previous specs)* REVISION NO. DATE (YYYYMMDD)

c. FINAL *(Complete Item 5 in all cases)* DATE (YYYYMMDD)

4. IS THIS A FOLLOW-ON CONTRACT? YES NO. If Yes, complete the following:
Classified material received or generated under _____ *(Preceding Contract Number)* is transferred to this follow-on contract.

5. IS THIS A FINAL DD FORM 254? YES 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 *(Include Commercial and Government Entity (CAGE) Code)*

a. NAME, ADDRESS, AND ZIP CODE
General Dynamics Information Technology Inc
(b) (6)

b. CAGE CODE
0GR87

c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*
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 *(Name, Address, and Zip Code)*
N/A

8. ACTUAL PERFORMANCE

a. LOCATION
See Blk 13

b. CAGE CODE
N/A

c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*
N/A

9. GENERAL IDENTIFICATION OF THIS PROCUREMENT

The overall goal of this effort is quantify the basic biological effects of directed energy for use in weapon technologies. This TO will focus on early applied research that looks specifically at the offensive and defense utility of knowledge gained from basic bioeffects research. Focus areas will be the modeling of whole animal/human electromagnetic field distributions, scalable effects of DE-exposures, and thresholds for effectiveness and injury.

10. CONTRACTOR WILL REQUIRE ACCESS TO:		YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:		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. FOR 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.			

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(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 21 IS/INS, SSO WPAFB, 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.

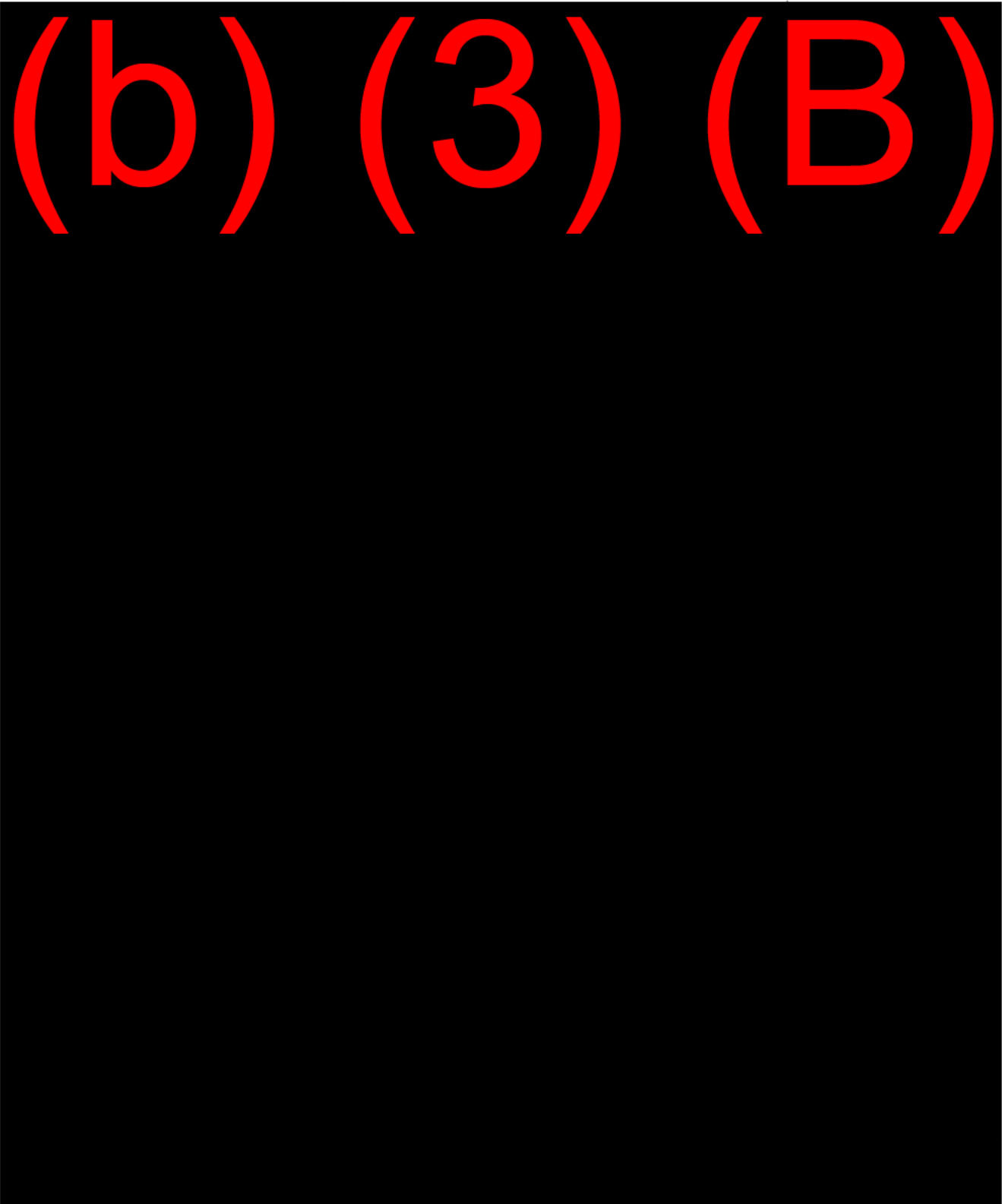
16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL (b) (6) Contracting Officer	b. TITLE CONTRACTING OFFICER	c. TELEPHONE (Include Area Code) (b) (6)
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d. ADDRESS (Include Zip Code) AFRL/RQKHA (b) (6)	e. SIGNATURE (b) (6)
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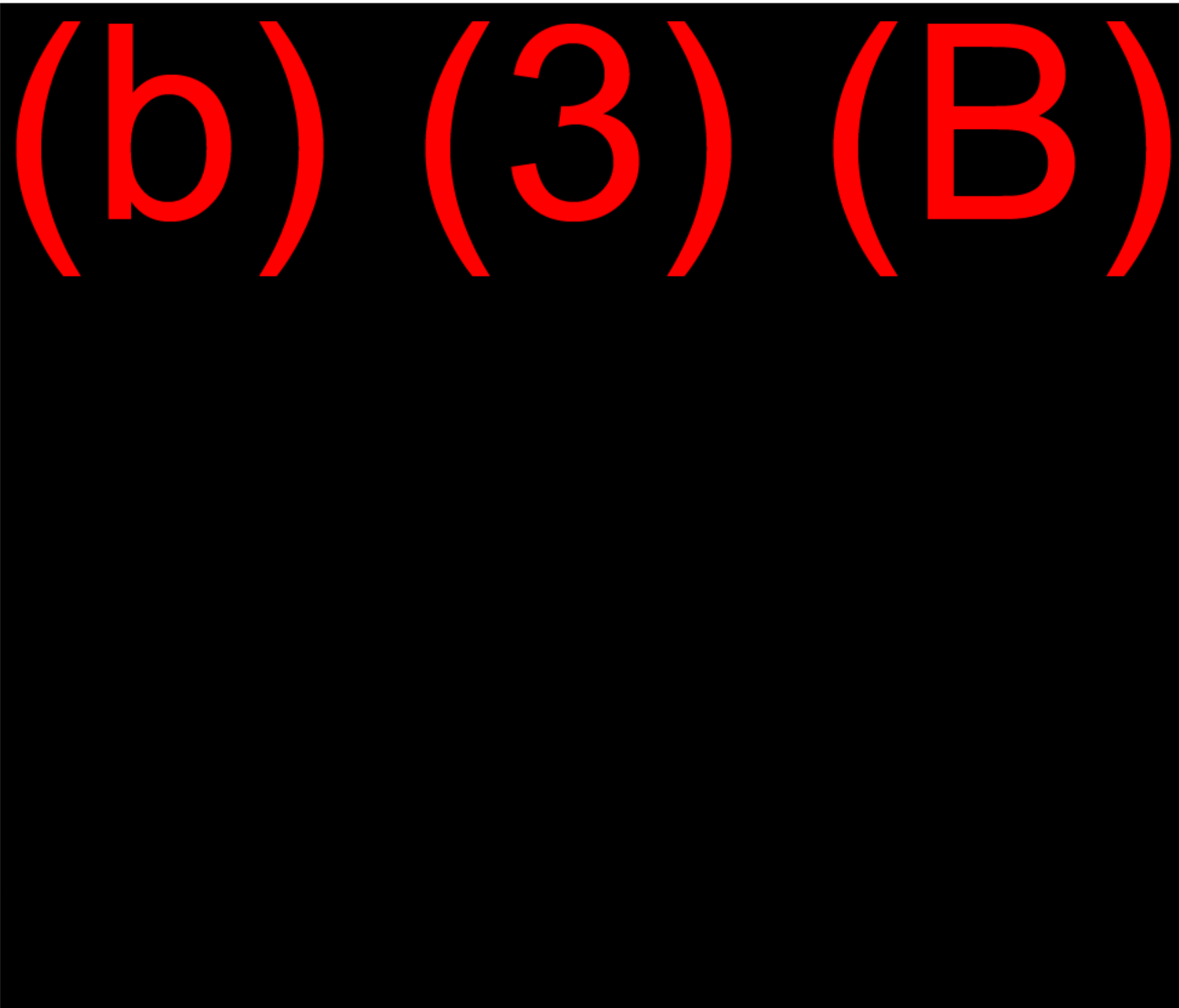
17. REQUIRED DISTRIBUTION

<input checked="" type="checkbox"/>	a. CONTRACTOR
<input type="checkbox"/>	b. SUBCONTRACTOR
<input checked="" type="checkbox"/>	c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
<input type="checkbox"/>	d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
<input checked="" type="checkbox"/>	e. ADMINISTRATIVE CONTRACTING OFFICER
<input checked="" type="checkbox"/>	f. OTHERS AS NECESSARY



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Blk 12, Continued

Public Release of Sensitive Compartmented Information (SCI) is NOT authorized
Ref Blk 10f: See Special Access Information addendum for details.

Blk 13, Continued

Program Manager: (b) (6)

Chief of Security: (b) (6)

Ref Blk 17e (ACO): TBD

Ref Blk 17f (DISTRIBUTION):

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

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

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

(b) (6)

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

(b) (3) (B)

BLK 13 SECURITY GUIDANCE: cont'

1. Ref blk 10e (2): Non-SCI. 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. SIO must grant approval prior to granting a subcontractor access. Intelligence material will be protected according to its security classification and any special handling caveats. A record must be maintained of all intelligence materials released to the contractor and furnish the local SIO with a listing upon the local SIO request. (See attachment 3)

Ref blk 10g: The contractor is permitted access to North Atlantic Treaty Organization (NATO) information in performance of this contract. Access to NATO information requires a final US Government clearance at the appropriate level. The government program/project manager is the designated representative that will ensure the contractor security manager and concerned employees are NATO-briefed prior to access being granted. Prior approval from the contracting activity is required for subcontracting.

Ref blk 10h: The contractor is permitted access to Foreign Government information in performance of this contract. Access to Foreign Government information requires a final US Government clearance at the appropriate level. The government program/project manager is the designated representative that will ensure the contractor security manager and concerned employees are briefed on export control regulations and processes prior to access being granted. Prior approval from the contracting activity is required for subcontracting.

Ref blk 10j: FOUO information provided under this contract shall be safeguarded as specified in the attachment "Protecting For Official Use Only (FOUO) information. (See Attachment # 4)

Ref blk 11a: Contractor performance is restricted to AFRL 711 HPW/RHDR, Joint Base San Antonio (JBSA) Fort Sam Houston, TX and other locations as required. Other locations include the contractor's facility, Air Force training ranges, other AFRL government and contractor facilities, etc. Using contractor or activity will provide security classification guidance (SCG) for performance of this contract. Security Classification Guides Index (See Attachment # 6)

Ref blk 11b: Sometimes a change in circumstances may cause a situation where the contractor will need to generate some classified materials. Any classified information generated in the performance of this contract shall be classified according to the markings shown on the source material.

Ref blk 11c: Receive and Generate Classified Material: This means the contractor is expected to receive and generate classified material, documents, and/or hardware; will be required to have safeguarding capability; and will required detailed and specific security guidance such as outlined in a program specific Security Classification/Declassification Guide (SCDG). Any classified information generated in the performance of this contract shall require the contractor to apply derivative classification and marking consistent with the source material.

Ref blk 11g: The contractor will prepare and process a DD Form 1540, Registration for Scientific and Technical Information Services, and DD Form 1541, Facility Clearance Register.

Ref Blk 11i: EMSEC requirements apply to the SCIF execution location. See Defense Federal Acquisition Regulation Supplement (DFARS) Clause 252.239-7000, Protection Against Compromising Emanations, dated 25 Jun 04, revised 10 Jan 08; Intelligence Community (IC) Tech Spec-for ICD/ICS 705, Technical Specifications For Construction and Management of Sensitive Compartmented Information Facilities, version 1.2, dated 23 Apr 12; Committee on National Security Systems Advisory Memorandum (CNSSAM) TEMPEST/01-13, Red/Black Installation Guidance, dated 17 Jan 14.

Ref blk 11j: Operations security (OPSEC) requirements apply. The contractor shall provide OPSEC protection for all sensitive/critical information as defined by Air Force Instruction (AFI) 10-701 and Tri Service Research Laboratory OPSEC Plan. The contractor shall describe the steps necessary to protect sensitive/critical information. The User Agency OPSEC Coordinator will evaluate the OPSEC posture of contract activities and operations (See Attachment # 5).

Ref blk 14: DoD 5105.21-M-1 and AFMAN 14-304; DCID 6/1, ICS 2008-700-1 and ICPM 2006-700-8; DCID 6/3, ICD 503 and ICS 2008-500-1; DCID 6/4, ICD 704/ICPGs 704.1, ICPG 704.2, ICPG 704.3, ICPG 704.4, ICPM 2007-700-3, ICPM 2006-700-5, and ICPM 2006-700-6; DCID 6/6; DCID 6/8 and ICD 701, ICD 705, ICD 702; and Joint DoDISS/Cryptologic SCI Information Systems Security Standards (JDCSISSS) provide 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.

(b) (3) (B)

(b) (3) (B)



(b) (3) (B)

ATTACHMENT 2 TO DD FORM 254
Contract No: FA8650-13-D-6368
Date of Attachment: 22 April 2014

(b) (3) (B)



(b) (3) (B)

RELEASE OF NON-SENSITIVE COMPARTMENTED INFORMATION (NON-SCI)

INTELLIGENCE INFORMATION TO US CONTRACTORS

1. Requirements for access to non-SCI:

a. All intelligence material released to the contractor remains the property of the US Government and may be withdrawn at any time. Contractors must maintain accountability for all classified intelligence released into their custody

b. The contractor must not reproduce intelligence material without the written permission of the originating agency through the Intelligence Support Office. If permission is granted, each copy shall be controlled in the same manner as the original.

c. The contractor must not destroy any intelligence material without advance approval or as specified by the contract monitor (CM). (EXCEPTION: Classified waste shall be destroyed as soon as practicable in accordance with the provisions of the Industrial Security Program).

d. The contractor must restrict access to only those individuals who possess the necessary security clearance and who are actually providing services under the contract with a valid need-to-know. Further dissemination to other contractors, subcontractors, other government agencies, private individuals or organizations is prohibited unless authorized in writing by the originating agency through the CM.

e. The contractor must ensure each employee having access to intelligence material is fully aware of the special security requirements for this material and shall maintain records in a manner that will permit the contractor to furnish, on demand, the names of individuals who have had access to this material in their custody.

f. Intelligence material must not be released to foreign nationals or immigrant aliens whether they are consultants, US contractors, or employees of the contractor and regardless of the level of their security clearance, except with advance written permission from the originator. Requests for release to foreign nations shall be initially forwarded to the contract monitor and shall include”

(1) A copy of the proposed disclosure

(2) Full justification reflecting the benefits to US interests

(3) Name, nationality, particulars or clearance, and current access authorization of each proposed foreign national recipient.

g. Upon completion or termination of the classified contract, or sooner when the purpose of the release has been served, the contractor will return all classified intelligence material

(furnished or generated) to the source from which received unless retention or other disposition instructions are authorized in writing by the CM.

h. The contractor must designate an individual who is working on the contract as a custodian. The designated custodian shall be responsible for receipting and accounting for all classified intelligence material received under this contract. This does not mean that the custodian must personally sign for all classified material. The inner wrapper of all classified material dispatched should be marked for the attention of a designated custodian and must not be opened by anyone not working directly on the contract.

i. Within 30 days after the final product is received and accepted by the procuring agency, classified intelligence materials released to or generated by the contractor, must be returned to the originating agency through the contractor monitor unless written instructions authorizing destruction or retention are issued. Requests to retain material shall be directed to the CM for this contract in writing and must clearly indicate the justification for retention and identity of the specific document to be retained.

j. Classification, regarding, or declassification markings of documentation produced by the contractor shall be consistent with that applied to the information or documentation from which the new document was prepared. If a compilation of information or a complete analysis of a subject appears to require a security classification other than that of the source documentation, the contractor shall assign the tentative security classification and request instructions from the contract monitor. Pending final determination, the material shall be safeguarded as required for its assigned or proposed classification, whichever is higher, until the classification is changed or otherwise verified.

k. Intelligence released to contractors, all reproductions thereof, and all other material generated based on, or incorporating data there from (including authorized reproductions), remain the property of the US Government. Final disposition of intelligence information shall be governed by the sponsoring agency.

2. The CM will provide a copy of the Controlled Access Program Coordination Office (CAPCO) guide to the contractor for special/control markings

3. Policies and procedures for contractors inside Government-owned or controlled facilities:

a. Contractors who perform duties inside a Government-owned or controlled facility will follow the procedures and policies of that sponsoring Intelligence Community member in accordance with Section VI.A of the Defense Central Intelligence Directive (DCID) 6/6.

4. Policies and procedures for contractors outside government-owned or controlled facilities:

a. Contractors who perform duties outside of government-owned or controlled facilities will adhere to the following additional policies and procedures:

i. The Senior Intelligence Officer (SIO) of the sponsoring agency, or her/his designee, is responsible for ensuring that releases to contractors of intelligence

marked ORCON and/or PROPIN are made only with the consent of the originating agency pursuant to ICD 710, sections V – X and Annexes A/B of DCID 6/6, and through established channels.

- ii. The sponsoring agency shall maintain a record of material released.
- iii. Contractors shall establish procedures to control all intelligence received, produced, and held by them in accordance with the provisions of the National Industrial Security Program Operating Manual. This will not impose internal receipt and document accountability requirements for internal traceability and audit purposes.
- iv. All reproductions and extractions of intelligence shall be classified, marked, and controlled in the same manner as the original (s).
- v. Sensitive Compartmented Information released to contractors shall be controlled pursuant to the provisions of DCID 6/1 as amended by ICPM 2006-700-8.
- vi. Sponsoring agencies shall delete any reference to the Central Intelligence Agency (CIA), the phrase “Directorate of Operations” and any of its components, the place acquired, the field number, the source description, and field dissemination from all CIA Directorate of Operations reports passed to contractors, unless prior approval to do otherwise is obtained from CIA.
- vii. 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.

FOR OFFICIAL USE ONLY (FOUO)

The following procedures will be used to protect FOR OFFICIAL USE ONLY (FOUO) information.

1. HANDLING: Access to FOUO material shall be limited to those employees who need the material to do their jobs. The FOR OFFICIAL USE ONLY marking is assigned to information when created by a DOD User Agency. FOR OFFICIAL USE ONLY is not a classification, but requires extra precautions to ensure it is not releasable to the public.

2. MARKING:

a. Mark an unclassified document containing FOUO information "FOR OFFICIAL USE ONLY" at the bottom of each page containing FOUO information and on the bottom of the front or front cover (if any) and on the back of the last page and on the back cover (if any).

b. In a classified document, mark;

(1) An individual paragraph that contains FOUO, but not classified information, by placing "FOUO" at the beginning of the paragraph.

(2) The top and bottom of each page that has both FOUO and classified information, with the highest security classification of the information on that page.

(3) "FOUO" at the bottom of each page that has FOUO information but is not classified.

(4) If a classified document also contains FOUO information or if the classified material becomes FOUO when declassified, place the following statement on the bottom of the cover or the first page, under the classification marking: **"NOTE: If declassified, review the document to make sure material is not FOUO and not exempt under Reference DoD 5400.7-R_AFMAN 33-302, 21 October 2010 before public release."**

c. Mark other records, such as computer printouts, photographs, films, tapes, or slides "FOR OFFICIAL USE ONLY" so that the receiver or viewer knows the record contains FOUO information.

d. Mark each part of a message that contains FOUO information. Unclassified messages containing FOUO information must show the abbreviation "FOUO" before the message begins.

e. Make sure that documents that transmit FOUO materials call attention to any FOUO attachments.

3. STORAGE: To safeguard FOR OFFICIAL USE ONLY records during normal duty hours, place them in an out-of-sight location if your work area is accessible to persons who do not have a valid need for the information. After normal duty hours, store FOUO records to prevent unauthorized access. File them with other unclassified records in unlocked files or desks when normal internal building security is provided. When there is no internal security, locked buildings or rooms usually provide adequate after-hours protection. For additional protection, store FOUO material in locked containers such as file cabinets, desks, or bookcases. Expenditure of funds for security containers or closed areas solely for the protection of FOUO data is prohibited.

4. TRANSMISSION: FOUO material shall be transmitted by the same methods as other UNCLASSIFIED material. Discussion of FOUO material on the telephone is authorized if necessary for performance of the contract. FOUO information may be transmitted over telephone lines in digital form, by telecopies, or by other commercial teletype lines without encryption.

5. RELEASE: FOUO information may be released only to DoD components, officials of DoD components, and other DoD contractors when needed to conduct official DoD business.

6. DESTRUCTION: When no longer needed, FOUO information may be disposed of by any method which will preclude its disclosure to unauthorized individuals.

OPERATIONS SECURITY

This attachment provides guidance to contractors when DOD Operations Security (OPSEC) requirements are imposed by DOD User Agencies.

The general aim of OPSEC is to promote mission effectiveness by preserving essential secrecy about US intentions, capabilities, and current activities.

OPSEC is directed to the protection of UNCLASSIFIED intelligence indicators on classified or sensitive programs of such nature that the disclosure of the indicators may lead to the compromise of classified or sensitive information. Security essential to defense activities may be compromised whenever open sources (such as technical articles, press releases, National Technical Information Services publication, the Congressional Record, Commerce Business Daily, or contract awards) and detectable activities (such as communications, logistics actions, research, development and test activities, or radar emissions) provide information that hostile Intelligence Services (HOIS) can piece together resulting in actions harmful to US interests.

OPSEC, thus, encompasses activities which are unique to the OPSEC process, i.e., (a) determining, through threat/vulnerability analysis, whether there are unacceptable/undesirable intelligence indicators and what they are; (b) developing and implementing countermeasures to best eliminate or minimize them.

OPSEC is concerned with all sources of exploitable information. It covers the total problem by addressing vulnerabilities and countermeasures for a specific program. It is the protection of things we do, our operations, tests, and activities. OPSEC is oriented principally to those instances in which evaluations indicate program weaknesses which could lead to the disclosure of classified information.

Unlike other security programs, OPSEC does not readily lend itself to complete identification of security requirements (counter-measures) during initial contract preparation. In order to judiciously apply OPSEC measures to a contractor's facility or on-base activity, OPSEC planners must first know the security profile and specific vulnerabilities/weaknesses of the facility or activity in question. In order to achieve this starting point, input from the contractor in the form of an initial OPSEC plan must be developed and provided by the contractor. Contractor OPSEC plans are then reviewed by the (b) (6) for approval. Once approved, contractor OPSEC plans are then tailored to specific program requirements and countermeasures are specified accordingly; extensive and ongoing coordination is essential. OPSEC countermeasures and plans must be flexible to address changes in the threat environment.

When requested by the installation commander, the Cognizant Security Officer (CSO) will perform OPSEC inspections of contractor facilities located on military installations; the CSO has principal responsibility for inspecting the contractor's compliance with OPSEC requirements.

Cognizant User Agency representatives may accompany the CSO if requested. OPSEC inspections will be accomplished as part of the regular industrial inspection.

Refer to DOD 5220.22-M Sup 1 (Feb 1995), Chapter 11, Section 4 and 5; AFI 31-601 and supplements; AFI 10-701 and supplements.

ATTACHMENT 6 TO DD FORM 254

Contract No: FA8650-13-D-6368

Date of Attachment: 22 April 2014

711TH HPW/RHDR Security Classification Guide (SCG) Index

Title	Date	POC
Directed Energy (DE) Weapon and Counter-DE Capability Technologies	17 March 2006	HQ USAF/A3/5
High Power Microwave (HPM) Weapon/Counter High Power Microwave (CHPM) Weapon Technology	21 Jun 1999	DoD
Active Denial Technology (ADT) Program	9 November 2011	AFRL/RDHA
Active Denial Technology (ADT) Program	8 December 2000	AFRL/RD
Critical Infrastructure Protection	January 2003	DoD

LOCAL CONTRACT SECURITY REQUIREMENTS

1. **Pass and Identification Items.** (Host Unit) shall ensure pass and identification items are obtained for all employees. The DoD Common Access Card (CAC), (AFI 36-3026) is used for access to the government computer systems and software. CAC applications are accomplished by Trusted Agents via the Contractor Verification System (CVS).
2. **Listing of Employees.** The contractor shall maintain a current listing of employees. The list shall include employee's name, social security number, and date of investigation work involves unescorted entry to Air Force restricted or other sensitive areas designated by the installation commander. The list shall be validated and signed by the company supervisor, will be updated when an employee's status or information changes.
3. **Freedom Of Information Act Program (FOIA).** The contractor shall comply with DoD Regulation 5400.7-R/Air Force Supplement, *DoD Freedom of Information Act Program*, requirements. The regulation sets policy and procedures for the disclosure of records to the public and for marking, handling, transmitting, and safeguarding *For Official Use Only (FOUO)* material. The contractor shall comply with AFI 33-332, *Privacy Act Program*, when collecting and maintaining information protected by the Privacy Act of 1974 authorized by Title 10, United States Code, Section 8013. The contractor shall remove or destroy official records only in accordance with AFMAN 33-363, *Management of Records*, or other directives authorized in AFI 33-322, *Records Management Program*.
4. **Reporting Requirements.** The contractor shall comply with AFI 71-101, Volume- 1, *Criminal Investigations*, and Volume-2, *Protective Service Matters*, requirements. Contractor personnel shall report to an appropriate authority, any information or circumstances of which they are aware may pose a threat to the security of DoD personnel, contractor personnel, resources, and classified or unclassified defense information. Contractor employees shall be briefed by their immediate supervisor upon initial on-base assignment and as required thereafter.
5. **Additional Security Requirements.** In accordance with DoD 5200.1-R and AFI 31-401, the contractor shall comply with AFI33-100, *User Responsibilities and Guidance for Information Systems* ; AFI 33-200, *Information Assurance (IA) Management*; and DoD Standard 22/Force Protection Condition Measures, DoD Standard 25/Level I-AT Awareness Training, and associated tasking contained in AFI 10-245, Antiterrorism (AT) standards. Level I AT Awareness training is available for contractor personnel and can be requested contacting the local Antiterrorism Office.
6. **Physical Security.** Contractor employees shall comply with base Operations Plans/instructions for FPCON procedures, Random Antiterrorism Measures (RAMS) and local search/identification requirements. The contractor shall safeguard all government property, including controlled forms, provided for contractor use. At the close of each work period,

government equipment, facilities, and other valuable materials shall be secured. During increased FPCONs, contractors may have limited access to the installation and should expect entrance delays.

7. **Traffic Laws.** The contractor and their employees shall comply with base traffic regulations.

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

Program Manager: (b) (6) 711 HPW/RHDR, (b) (6)
(b) (6)(b) (6)

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

Chief of Security: (b) (6) 711 HPW/OMS, (b) (6)
(b) (6) (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 a (b) (6)
(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 Blk 11i: EMSEC requirements apply to the SCIF execution location. See Defense Federal Acquisition Regulation Supplement (DFARS) Clause 252.239-7000, Protection Against Compromising Emanations, dated 25 Jun 04, revised 10 Jan 08; Intelligence Community (IC) Tech Spec-for ICD/ICS 705, Technical Specifications For Construction and Management of Sensitive Compartmented Information Facilities, version 1.2, dated 23 Apr 12; Committee on National Security Systems Advisory Memorandum (CNSSAM) TEMPEST/01-13, Red/Black Installation Guidance, dated 17 Jan 14.

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

Ref Blk 11: 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, (b) (6)

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

Ref Blk 17f (DISTRIBUTION):

Servicing IP: (b) (6) 711 HPW/OMS, (b) (6)
(b) (6)) (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 (Security Manager) (b) (6)

Block 14:

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

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

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

Ref Blk 10e(1): SCI security requirements may apply in future delivery orders. Tasking units will provide specific requirements and guidance. See SCI addendum for general guidance.

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.

ADDENDUM TO DD FORM 254 (Block 10f)

Special Access Information - Effective: 31 October 2011

Blk 12 Cont'd:

Ref Blk 10f: No public release of Special Access Required (SAR) or SAR related material is authorized without approval of SAF/AQ through the AFOSI Office of Special Projects (PJ) Det 2, (b) (6)

(b) (6)

Blk 13 Cont'd:

Ref Blk 10f: The JAFAN 6/0 Manual, Special Access Program Security Manual Revision 1, dated 29 May 2008 and applicable Security Classification Guides (SCG) applies to this contract for Special Access Requirements.

All Special Access work must be conducted within an AFOSI Office of Special Projects (PJ) approved location. New Special Access Program (SAP) facility/Automated Information Systems (AIS) or modifications to an existing SAP facility/AIS must comply with JAFAN 6/9 Manual, Physical Security Standards for SAP Facilities, dated 23 Mar 04, Change 1, dated 20 Dec 05 and JAFAN 6/3 Manual, Protecting SAP Information within Information Systems, dated 15 Oct 04.

Government Special Access Program Security Officer (GSSO): (Name, office symbol, commercial phone number)

Program Security Officer (PSO): (Name, office symbol, commercial phone number)

Blk 14 Cont'd:

Ref Blk 10f: All Special Access Programs (SAP) will comply with JAFAN 6/4 Special Access Program Tier Review Process Manual, 9 May 2006 (Revision 1). Guidance for gaining access will be provided by the Government Special Access Program Security Officer (GSSO) within the government program office, or the AFOSI Office of Special Projects (PJ) Program Security Officer (PSO) (b) (6)

(b) (6)

Blk 15 Cont'd:

Ref Blk 10f & 11l: DSS is relieved of all security oversight for performance on the installation. For performance on JBSA Ft Sam Houston, TX. Security oversight will be under the cognizance of (insert office symbol of servicing security activity) for non-SAR performance, and by AFOSI Office of Special Projects (PJ) for SAR performance.

STATEMENT OF WORK

Novel Direct Energy Weapon Effects

Task Order 0006

5 September 2014

FA8650-13-D-6368

Task Order 0006 Novel Direct Energy Weapon Effects

STATEMENT OF WORK

1. SCOPE:

GDIT shall collect data at the cell, small animal, and human levels towards applying basic concepts to experimental weapon technologies. The focus of this task order shall be the basic demonstration of and effective parameter determination of novel technology platforms. In contrast to discovery-based research, the applied nature of the task order will focus solely on the discovery of the utility of certain energy forms for technology. Empirical data collected shall consist of measuring changes in low-level behavior, electrophysiological, membrane integrity of cells and tissues. Modeling data shall consist of dosimetry of exposure and determination of physical limits of energy propagation.

2. OBJECTIVES:

a. Research Administration.

GDIT shall be responsible for scheduling activities and milestones, describing resource status, outlining contractor activity and progress toward accomplishing objectives and making recommendation to research objectives, and program planning based on the research results, describing in detail the overall results of the effort, and documenting results in technical papers. GDIT shall designate a lead manager to be responsible for all contributions to the effort.

b. Research Descriptions. The contractor shall:

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

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

(2) Quantitation of total RNA by spectrophotometry.

(3) Quality control of total RNA by denaturing agarose gel electrophoresis.

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

(5) Evaluation of protein functions in signal transduction pathways.

(6) Quantitative real-time reverse-transcription polymerase chain reaction (Roche, ABI), data analysis, and statistics.

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

- (1) Protein/peptide purification by high performance liquid chromatography (Waters).
 - (2) Extraction and purification of proteins from cell lysates.
 - (3) Quantitation of proteins by colorimetric assay and spectrophotometry.
 - (4) One-dimensional (10) analysis of proteins by denaturing polyacrylamide gel electrophoresis (PAGE).
 - (a) Two-dimensional (20) analysis of proteins by PAGE.
 - (b) Immunoblot following 10- or 20-PAGE.
 - (c) Staining of PAGE gels (fluorescent dye, silver stain) and scanning.
 - (d) Computer-assisted quantitative comparison of 20 gels using POQuest 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.
- iii. **Metabolomics.** Analysis of small molecule metabolites.
- (1) Analysis of data from real-time gas detectors.
 - (2) Analysis of hydrocarbon-specific data from gas chromatographs.
 - (3) Analysis of metabolomic byproducts as indication of activity in cells
- iv. **Immunology.** Analysis of immune cell functions, cytokine expression, innate and adaptive responses, cellular and humeral immunity.
- (1) Immune cell culture and activation.
 - (2) Immune cell proteomics.
 - (3) Enzyme-linked immunosorbent assays.
 - (4) Fluorescent immunoassays.
- v. **Cell culture.** In *vitro* culturing of mammalian cells.
- (1) Culturing of immune cells, fibroblasts, and keratinocytes.
 - (2) Crye-preservation of cells.

- (3) *In situ* assays for apoptosis, cell proliferation, and vital staining.
 - (4) Cellular transfection/genomic modification of cell cultures
- vi. **Animal subjects research.** Laboratory rats and pigs are the primary animal model used for molecular bioeffects research. Virtually all tissue types, body fluids, and breath are analyzed. All animal research is performed under approved protocols in accordance with federal and institutional requirements.
- (1) Short-term husbandry, dietary planning and care.
 - (2) Experimental handling, including anesthesia and microwave exposure.
 - (3) Biopsy/necropsy, sample collection and preservation from all tissue types.
 - (4) Human subjects research. Molecular bioeffects are also determined with human research subjects. This type of research is performed under approved protocols in strict accordance with federal, military, and institutional requirements.
 - (5) Saliva collection by anonymous donation (designated "Exempt From Review" by the Institutional Review Board).
 - (6) Saliva proteomics and small molecule analysis.
- vii. **Pathology.** In collaboration with the veterinary branch 711 ·HPW/RHDV, the biological effects of microwave exposure are studied microscopically at the cellular and tissue levels.
- (1) Histology with tissue sectioning and staining.
 - (2) Immunohistochemistry and immunofluorescence with tissue sections.
 - (3) Quantitative scoring of histological phenotypes.
 - (4) Laser-assisted micro-dissection of tissue sections for molecular analysis.
- viii. **Bioinformatics.** Overlapping with efforts in genomics, proteomics, and metabolomics, molecular bioeffects researchers also use bioinformatic methods.
- (1) Computer-based data management.
 - (2) Sample statistics and probability testing.
 - (3) Analysis of Affymetrix gene chip data.
 - (4) Predictive modeling of cellular signal transduction, assessment of impact of bioeffects on body systems, and associating molecular function with physiological response and disease.
 - (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 microdosimetry and the capacity to apply genomic and proteomic methods to single cell entities, now permit the development of more sophisticated model systems.

- (6) Analysis of infrared and conventional thermometry data.
- (7) Efforts to model microwave exposure at the tissue, cellular, and sub-cellular levels.

ix. **Microscopy**

- (1) Use of fluorescent microscopy system
- (2) Use of confocal fluorescent microscopy system
- (3) Use of conventional microscopy system with cells and tissues

x. **Electrophysiology**

- (1) Application of fundamental cellular electrophysiology during RF exposures
- (2) Analysis of ion channel activity during RF exposure
- (3) Analysis of electrophysiological data obtained via patch clamp

Research Planning. The contractor shall pursue relevant research objectives within mission requirements. GDIT shall designate a scientist as a 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. The contractor shall:

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

(8) Estimated schedule of performance.

- d. Experimentation.** The contractor shall obtain the highest quality of data from research, each scientist shall be expected to do the following:
- i. Develop/adapt protocols from published sources, manufacturer brochures, and laboratory manuals.
 - ii. Approach pilot studies and large experiments with the same attention to detail, to assure that the experimental outcome, while not being predictable, will nevertheless be fully traceable to specific starting materials and a reproducible method of investigation.
 - iii. Perform experiments in a consistent manner, including appropriate controls and independent repetitions of assays. to obtain statistically significant insights.
 - iv. Follow science documentation procedures as specified by government managers.
- e. Research Communications.** GDIT Scientists shall:
- i. Prepare abstracts, posters, platform talks for and present at scientific conferences.
 - ii. Prepare Technical Reports according to Air Force Science and Technology Information Office (STINFO) requirements, documenting laboratory-specific research methods, procedures, or protocols.
 - iii. Publishing experimental results is an integral part of scientific investigation. The results and conclusions of each subtask-specific research will be published within the period of subtask performance. All team members are expected to contribute their expertise and partake in the preparation of manuscripts; subtask leaders shall:
 - (1) Coordinate the synthesis of collected accomplishments, results, insights, and assessments of subtask research as framework for a manuscript.
 - (2) Prepare Technical Reports according to STINFO requirements to document the completion of subtask research in case classified data is involved.
 - (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.
 - (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.
- f. Integrated Research Team.** The contractor shall sustain the productivity of the research effort, the following activities shall be coordinated within the IRT and specific members designated for responsibility:
- i. Accounting for and storing of supplies in approved locations.

- ii. Facilitating disposal of hazardous laboratory waste.
- iii. Storing and inventorying of research samples in freezers and refrigerators.
- iv. Maintaining gas supplies for cryo-storage units, back-up refrigerant, and cell culture incubators.
- v. Preparing common stock solutions and reagents.
- vi. Facilitating supplies requisition and the receiving of shipments.
- vii. Interfacing between the veterinary unit 711 HPW/RHDV and the Branch.

g. Research Compliance Management. The contractor shall ensure 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. GDIT shall comply with the following regulations:

- i. Security. GDIT shall comply with all applicable Air Force regulations pertaining to Operational Security (OPSEC) and Computer Security (COMPSEC).
- ii. Protection of Human Subjects. GDIT 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).
- iii. In addition, GDIT 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.

- iv. Protection of Animal Subjects. GDIT 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). Moreover, GDIT will 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.

- v. Comply with Air Force (AF) regulations in operations security (OPSEC) and communications security (COMSEC) as necessary.
- h. Material management. Cutting edge research in molecular bioeffects requires sophisticated instrumentation, associated maintenance, and quality supplies from a variety of specialty vendors. GDIT shall:
 - i. Procure and set up allowable equipment in compliance with COMPSEC regulations as necessary, for this task order.
 - ii. Account for equipment and software licenses.
 - iii. Assure maintenance and calibration of instruments necessary to perform the research under this task order.
 - iv. Purchase consumables, reagents, supplies, and laboratory animals following regulatory requirements.
 - v. Account for and report expenditures for all research materials.

3. Deliverables

List of all Deliverables:

- Reports: Status, Technical, Financial, Presentation, and Final
- Hardware: Lab prototype hardware (STE)
- Software: Lab data collection and analysis software.

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