

Tab 5

Releasable Records
(Redacted Copy
with appropriate
Exemptions)

AWARD / CONTRACT		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)	RATING DO-C9	PAGE of PAGES 1 27		
2. CONTRACT (PROC. INST. IDENT.) NO. FA8650-13-D-6368		3. EFFECTIVE DATE 03 SEP 2013	4. REQUISITION / PURCHASE REQUEST / PROJECT NO. See Section G			
5. ISSUED BY AFRL/RQKHA USAF/AFMC AFRL WRIGHT RESEARCH SITE 2310 EIGHTH STREET, BUILDING 167 WRIGHT-PATTERSON AFB OH 45433-7801 ██████████ 937-255-9573 ██████████3@us.af.mil		CODE FA8650	6. ADMINISTERED BY (IF OTHER THAN ITEM 5) DCMA MANASSAS 10500 BATTLEVIEW PARKWAY SUITE 200 MANASSAS VA 20109-2342 DCMA.VIRGINIA@DCMA.MIL SCD: C PAS: (NONE)			
7. NAME AND ADDRESS OF CONTRACTOR (NO., STREET, CITY, COUNTY, STATE AND ZIP CODE) GENERAL DYNAMICS INFORMATION TECHNOLOGY, INC. 3211 JERMANTOWN RD FAIRFAX VA 22030-2844 (703) 995-8666		8. DELIVERY <input type="checkbox"/> FOB Origin <input checked="" type="checkbox"/> Other (see below)		9. DISCOUNT FOR PROMPT PAYMENT N		
CAGE CODE 07MU1		FACILITY CODE		10. SUBMIT INVOICES (4 COPIES UNLESS OTHERWISE SPECIFIED) TO THE ADDRESS SHOWN IN		
11. SHIP TO / MARK FOR See Section F		12. PAYMENT WILL BE MADE BY DFAS COLUMBUS CENTER DFAS-CO/SOUTH ENTITLEMENT OPS P.O. BOX 182264 COLUMBUS OH 43218-2264 EFT: T		ITEM See Block 12		
13. AUTHORITY FOR OTHER THAN FULL AND OPEN COMPETITION		14. ACCOUNTING AND APPROPRIATION DATA				
15A. ITEM NO See Section B	15B. SUPPLIES/SERVICES	15C. QUANTITY	15D. UNIT	15E. UNIT PRICE		
				15F. AMOUNT		
15G. TOTAL AMOUNT OF CONTRACT				\$49,000,000.00		
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✓	B	SUPPLIES OR SERVICES AND PRICES/COSTS	2	PART III - LIST OF DOCUMENTS, EXHIBITS & ATTACHMENTS		
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CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE						
17. <input checked="" type="checkbox"/> Contractor's Negotiated Agreement (Contractor is required to sign this document and return 1 copies to issuing office). Contractor agrees to furnish and deliver all items or perform all services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)				18. <input type="checkbox"/> Award (Contractor is not required to sign this document). Your offer on solicitation number _____ including the additions or changes made by you which additions or changes set forth in full above, is hereby accepted as to items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.		
19A. NAME AND TITLE OF SIGNER (TYPE OR PRINT)				20A. NAME OF CONTRACTING OFFICER ██████████		
19B. Name of Contractor		19C. Date Signed		20B. United States of America //signed//		20C. Date Signed 03 SEP 2013
by _____ (signature of person authorized to sign)				by _____ (signature of Contracting Officer)		

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

(b)(6)

PART I - THE SCHEDULE
SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0001	<p><i>Noun:</i> RESEARCH AND DATA <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 entitled, "Directed Energy Bio-Mechanisms" in accordance with Section C, Description/Specifications: Statement of Work dated 12 April 13, Attachment 1 to Section J of the individual task order. Deliver data in accordance with Exhibit A, Contract Data Requirements List, DD Forms 1423-1, dated 26 NOV 12, designated as Exhibit A, Section J hereto, and as further detailed in each individual Task Order.</p>		
0002	<p><i>Noun:</i> RESEARCH AND DATA- OPERATIONS AND/OR MAINTENANCE <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> Provide Operational and/or Maintenance in support of the Research and Development effort entitled, "Directed Energy Bio-Mechanisms" in accordance with Section C, Description/Specifications: Statement of Work dated 12 April 13, Attachment 1 to Section J of the individual task order. Deliver data in accordance with Exhibit A, Contract Data Requirements List, DD Forms 1423-1, dated 26 NOV 12, designated as Exhibit A, Section J hereto, and as further detailed in each individual Task Order.</p>		
0003	<p><i>Noun:</i> HARDWARE <i>NSN:</i> N - Not Applicable <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> Deliver hardware in accordance with with Section C, Description/Specifications: Statement of Work at Atch 1 to Section J hereto, and as further detailed in each individual Task Order as applicable.</p>		

PART I - THE SCHEDULE
SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0004	<p><i>Noun:</i> SOFTWARE <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> Deliver software in accordance with with Section C, Description/Specifications: Statement of Work at Atch 1 to Section J hereto, and as further detailed in each individual Task Order as applicable.</p>		
0005	<p><i>Noun:</i> RESEARCH AND DATA - OPERATIONS AND/OR MAINTENANCE (DHP O&M FUNDED) <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> This CLIN will be funded with Defense Health Program O&M type funds in support of Operations and/or Maintenance type work in support of the Defense Health Program (DHP) Research and Development effort. Provide Operational and/or Maintenance type work in support of the Research and Development effort entitled, "Directed Energy Bio-Mechanisms" in accordance with Section C, Description/Specifications: Statement of Work dated 12 April 13, Attachment 1 to Section J of the individual task order. Deliver data in accordance with Exhibit A, Contract Data Requirements List, DD Forms 1423-1, dated 26 NOV 12, designated as Exhibit A, Section J hereto, and as further detailed in each individual Task Order.</p>		
0006	<p><i>Noun:</i> RESEARCH AND DATA (DHP FUNDED) <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> This CLIN will be funded with Defense Health Program funds in support of Research and Development type work. Conduct research entitled, "Directed Energy Bio-Mechanisms" in accordance with Section C, Description/Specifications: Statement of Work dated 12 April 13, Attachment 1 to Section J of the individual task order. Deliver data in accordance with Exhibit A, Contract Data Requirements List, DD Forms 1423-1, dated 26 NOV12, designated as Exhibit A, Section J hereto, and as further detailed in each individual Task Order.</p>		

NOTICE: The following contract clauses pertinent to this section are hereby incorporated in full text:

OTHER CONTRACT CLAUSES IN FULL TEXT

B039 INDEFINITE QUANTITY (DEC 2005) (TAILORED)

This is an Indefinite Quantity contract as contemplated by FAR 16.504. The total scope of the technical tasks for which orders may be issued is set forth in the Statement of Work at Atch 1, Section J. The maximum dollar amount the Government may order under this contract is \$19,000,000; the minimum amount is \$100,000.

B040 ORDERING PROCEDURES (DEC 2005)

(a) Orders will be issued by a Procuring Contracting Officer in accordance with the Ordering clause of this contract. However, the following procedures shall be used for negotiation of orders.

(1) The Contracting Officer will provide the Contractor with a copy of the notification of each proposed Order which will include a description of work to be performed, description of expertise required, and desired completion date.

(2) The Contractor shall then: (i) submit to the Contracting Officer a brief technical discussion describing how the work will be performed; (ii) submit a cost proposal identifying labor categories and number of hours within each category required for the performance of the proposed work; (iii) identify and provide rationale for all non-labor cost elements required for performance; and (iv) identify any Government property required for performance.

(3) Upon receipt of the proposal, the Contracting Officer will analyze the proposal and, if acceptable, issue an Order directing the Contractor to commence performance, or if the proposal is not fully acceptable as offered, negotiations shall be conducted prior to issuance of any Order. In the event issues pertaining to a proposed work cannot be resolved to the satisfaction of the Contracting Officer, the Contracting Officer reserves the right to withdraw and cancel the proposed work. In such event, the Contractor shall be notified, via letter, of the Contracting Officer's decision. This decision shall be final and conclusive and shall not be subject to the Disputes clause or the Contract Disputes Act.

(b) The Contractor is not authorized to commence performance prior to issuance of the Order by the Contracting Officer.

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 CLINS TBD ON AN ORDER BY ORDER BASIS through TBD ON AN ORDER BY ORDER BASIS is TBD ON AN ORDER BY ORDER BASIS. It is estimated that this amount is sufficient to cover performance through TBD ON AN ORDER BY ORDER BASIS.

B058 PAYMENT OF FEE (CPFF) (FEB 2003) (TAILORED)

The estimated cost and fee for this contract are shown below. The applicable fixed fee set forth below may be increased or decreased only by negotiation and modification of the contract for added or deleted work. As determined by the contracting officer, it shall be paid as it accrues, in regular installments based upon the percentage of completion of work (or the expiration of the agreed-upon period(s) for term contracts).

PART I - THE SCHEDULE
SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

Estimated Cost TBD ON AN ORDER BY ORDER BASIS
Fee TBD ON AN ORDER BY ORDER BASIS
Applies to Cost-Plus-Fixed-Fee CLIN(s) only.

NOTICE: The following contract clauses pertinent to this section are hereby incorporated in full text:

OTHER CONTRACT CLAUSES IN FULL TEXT

C004 INCORPORATED DOCUMENTS/REQUIREMENTS - ALTERNATE (FEB 2006)

The following documents, as they may be amended below, are a part of this contract:

SEE SECTION J FOR ANY APPLICABLE EXHIBITS AND ATTACHMENTS TO THE BASIC IDIQ CONTRACT.

NOTICE: The following contract clauses pertinent to this section are hereby incorporated in full text:

OTHER CONTRACT CLAUSES IN FULL TEXT

D002 PACKAGING AND MARKING (AUG 2005) (TAILORED)

(a) All hardware deliverable contract items shall be packaged in accordance with established commercial practices.

(b) All hardware, software, equipment or systems are to be initially delivered to: TBD ON ORDER BY ORDER BASIS

SHIP TO: 711 HPW/RHDR
4141 Petroleum Rd, Bldg 3260
JBSA Ft Sam Houston, TX 78234

(c) When special delivery and/or handling instructions are required, all boxes and/or crates must contain the following statement in plain sight and in bold letters:

**INSTRUCTION TO RECEIVING OFFICE - DO NOT OPEN;
CONTENTS ARE SENSITIVE TO DAMAGE WHEN IMPROPERLY OPENED OR
HANDLED.
CONTACT THE RESPONSIBLE TECHNICAL PROJECT OFFICER IMMEDIATELY UPON
RECEIPT.
CONTACT: TBD ON AN ORDER BY ORDER BASIS**

I. NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference:

A. FEDERAL ACQUISITION REGULATION CONTRACT CLAUSES

52.246-08 INSPECTION OF RESEARCH AND DEVELOPMENT – COST-REIMBURSEMENT
(MAY 2001)
52.246-09 INSPECTION OF RESEARCH AND DEVELOPMENT (SHORT FORM) (APR 1984)

B. DEFENSE FEDERAL ACQUISITION REGULATION SUPPLEMENT CONTRACT CLAUSES

252.246-7000 MATERIAL INSPECTION AND RECEIVING REPORT (MAR 2008)

II. NOTICE: The following contract clauses pertinent to this section are hereby incorporated in full text:

OTHER CONTRACT CLAUSES IN FULL TEXT

E006 PAYMENT REQUEST AND RECEIVING REPORT SUBMISSION INSTRUCTIONS (AUG 2006)

(a) Pursuant to DFARS 252.232-7003, Electronic Submission of Payment Requests, use of the Wide Area Work Flow - Receipt and Acceptance (WAWF-RA) system for electronic submission of payment requests and receipt/acceptance documents is mandatory for this award. In accordance with DFARS 252.246-7000, Material Inspection and Receiving Report, use of WAWF-RA fulfills the requirements for submission of DD Form 250s.

(b) Technical reports are not to be submitted as attachments in WAWF-RA. See F005 for delivery instructions and addresses for these reports.

(c) A copy of the receiving report printed from WAWF-RA shall accompany each shipment which requires a DD Form 250/receiving report.

(d) PROCESSING STATUS. Any inquiry as to the processing status of a payment request or receiving report should be made to the following office: DCMA as stated in Block 6 of the cover page, or to the Program Manager/Project Engineer as identified on each task order basis.

For any instructions on the use of Wide Area Work Flow, contact the Administrative Contracting Officer at the cognizant DCMA identified in block 6 of the contract cover page of the Basic IDIQ contract..

E007 INSPECTION AND ACCEPTANCE AUTHORITY (APR 1998) (TAILORED)

Inspection and acceptance for all Contract and Exhibit Lines or Subline Items shall be accomplished by the Program Manager.

THE DESIGNATED PROGRAM MANAGER/PROJECT ENGINEER, TBD ON AN ORDER BY ORDER BASIS

I. NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference:

FEDERAL ACQUISITION REGULATION CONTRACT CLAUSES

52.242-15 STOP-WORK ORDER (AUG 1989) - ALTERNATE I (APR 1984)
52.247-34 F.O.B. DESTINATION (NOV 1991)

II. NOTICE: The following contract clauses pertinent to this section are hereby incorporated in full text:

OTHER CONTRACT CLAUSES IN FULL TEXT

F002 PERIOD OF PERFORMANCE (FEB 1997) (TAILORED)

Period of performance under this contract shall be 78 months from the Effective Date of the Contract.

F003 CONTRACT DELIVERIES (FEB 1997)

The following terms, if used within this contract in conjunction with contract delivery requirements (including data deliveries), are hereby defined as follows:

- (a) "MAC" and "MARO" mean "months after the effective date for award of the contractual action (as shown in block 3, Section A, SF 26)".
- (b) "WARO" means "weeks after the effective date for award of the contractual action".
- (c) "DARO" means "days after the effective date for award of the contractual action".
- (d) "ASREQ" means "as required". Detailed delivery requirements are then specified elsewhere in Section F.

F005 DELIVERY OF REPORTS (OCT 1998) (TAILORED)

(a) All data shall be delivered in accordance with the delivery schedule shown on the Contract Data Requirements List, attachments, or as incorporated by reference.

(b) All reports and correspondence submitted under this contract shall include the contract number and project number, if applicable, and be forwarded prepaid. A copy of the letters of transmittal shall be delivered to the Procuring Contracting Officer (PCO) and Administrative Contracting Officer (ACO). The addresses are set forth on the contract award cover page. All other address(es) and code(s) for consignee(s) are as set forth in the contract or incorporated by reference.

DELIVERY ADDRESSES FOR REPORTS-- TBD ON AN ORDER BY ORDER BASIS

F007 SHIPMENT ADDRESS (SEP 1997) (TAILORED)

TBD ON AN ORDER BY ORDER BASIS

NOTICE: The following contract clauses pertinent to this section are hereby incorporated in full text:

A. DEFENSE FAR SUPP CONTRACT CLAUSES IN FULL TEXT

252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (DEVIATION) (JAN 2013)

(a) Definitions. As used in this clause-

"Department of Defense Activity Address Code (DoDAAC)" is a six position code that uniquely identifies a unit, activity, or organization.

"Document type" means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

"Local processing office (LPO)" is the office responsible for payment certification when payment certification is done external to the entitlement system.

(b) Electronic invoicing. The WAWF system is the method to electronically process vendor payment requests and receiving reports, as authorized by DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) WAWF access. To access WAWF, the Contractor shall-

(1) Have a designated electronic business point of contact in the Central Contractor Registration at <https://www.acquisition.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this web site.

(d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the "Web Based Training" link on the WAWF home page at <https://wawf.eb.mil/>

(e) WAWF methods of document submission. Document submissions may be via web entry, Electronic Data Interchange, File Transfer Protocol, or PayWeb.

(1) To access PayWeb, the vendor may go to the following site:
<https://ononline.onr.navy.mil/payweb/>

(2) For instructions on PayWeb payment request submission, please contact the office identified below: **DFAS OFFICE AS IDENTIFIED IN BLOCK 12 OF THE BASIC IDIQ CONTRACT COVER PAGE**

(f) WAWF payment instructions. The Contractor must use the following information when submitting payment requests and receiving reports in WAWF for this contract/order:

(1) Document type. The Contractor shall use the following document type(s).
Use Cost Voucher to fulfill Clause G006, Invoice and Payment - Cost Reimbursement

Use Receiving Report to fulfill DFARS 252.246-7000, Material Inspection and Receiving Report, and CDRL A001 (Final Technical Report), Block 7 requirement for a DD250.

PART I - THE SCHEDULE
SECTION G - CONTRACT ADMINISTRATION DATA

Note: If a "Combo" document type is identified but not supportable by the Contractor's business systems, an "Invoice" (stand-alone) and "Receiving Report" (stand-alone) document type may be used instead.)

(2) Inspection/acceptance location. The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer. See CLIN(s) in Section B of each Task Order for Inspection location (typically Destination)

(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table*

Field Name in WAWF

Data to be entered in WAWF

Pay Official DoDAAC Use the Code in Block 12 (DFAS) of the Basic IDIQ contract cover page

Issue By DoDAAC FA8650

Admin DoDAAC Use the Code in Block 7 of the Task Order cover page (the Administered by block on the cover page)

Inspect By DoDAAC Vendor will leave this block blank

Ship To Code See Section F for the "SHIP TO" Code on each task order, (F4F***); this is referred to as the BPN for the Project Engr/Prog Mgr

Ship From Code Not Applicable

Mark For Code Not Applicable

Service Approver (DoDAAC) Use the Code in Block 7 of the Task Order cover page (the Administered by block on the cover page)

Service Acceptor (DoDAAC) See Section F for the "SHIP TO" Code on each task order, (F4F***); known as the BPN for the Project Engineer/Prog Mgr

Accept at Other DoDAAC N/A

LPO DoDAAC N/A

DCAA Auditor DoDAAC VENDOR SHALL USE LOOK UP DCAA FROM TOOLBAR AT LEFT OF WAWF SCREEN

Other DoDAAC(s) N/A

(*Contracting Officer: Insert applicable DoDAAC information or "See schedule" if multiple ship to/acceptance locations apply, or "Not applicable.")

(4) Payment request and supporting documentation. The Contractor shall ensure a payment request includes appropriate contract line item and subline item descriptions of the work performed or supplies delivered, unit price/cost per unit, fee (if applicable), and all relevant back-up documentation, as defined in DFARS Appendix F, (e.g. timesheets) in support of each payment request.

(5) WAWF email notifications. The Contractor shall enter the e-mail address identified below in the "Send Additional Email Notifications" field of WAWF once a document is submitted in the system.

EMAIL ADDRESSES FOR THE PROGRAM MANAGER/PROJECT ENGINEER, FINANCIAL ANALYST, AND CONTRACT NEGOTIATOR OR CONTRACTING OFFICER IS TBD AND WILL BE IDENTIFIED IN SECTION F ON EACH TASK ORDER

*The Receiving Report requires an inspection and acceptance to be performed by the Program Manager/Project Engineer. The "Ship-To Code" in WAWF is the BPN or Ship To code (F4F***) of the Program Manager/Project Engineer for the task order effort and this code can be found in Section F of each Task Order. THE PROJECT ENGINEER/PROGRAM MGR IS TBD ON ORDER BY ORDER BASIS.

DO NOT ATTACH TECHNICAL REPORTS TO WAWF-RA DOCUMENTS. YOU MAY ATTACH FINANCIAL INFORMATION SUPPORTING YOUR VOUCHER OR DOCUMENTS SUPPORTING INSPECTION AND ACCEPTANCE.

A copy of the receiving report printed from WAWF-RA shall accompany each shipment which requires a DD Form 250/Receiving Report

(g) WAWF point of contact.

(1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.
CONTACT THE ADMINISTRATIVE CONTRACTING OFFICER (ACO) AT THE COGNIZANT DCMA ADMINISTRATION OFFICE AS IDENTIFIED IN BLOCK 7 OF THE TASK ORDER COVER PAGE FOR ADDITIONAL ASSISTANCE WITH WAWF TRAINING, REGISTRATION, AND IMPLEMENTATION. DO NOT ATTACH TECHNICAL REPORTS OR DOCUMENTS SUPPORTING INSPECTION AND ACCEPTANCE.

(2) For technical WAWF help, contact the WAWF helpdesk at 866-618-5988.

B. OTHER CONTRACT CLAUSES IN FULL TEXT

252.204-0002 LINE ITEM SPECIFIC: SEQUENTIAL ACRN ORDER (SEP 2009)

The payment office shall make payment in sequential ACRN order within the line item, exhausting all funds in the previous ACRN before paying from the next ACRN using the following sequential order: Alpha/Alpha; Alpha/numeric; numeric/alpha; and numeric/numeric.

252.204-0003 LINE ITEM SPECIFIC: CONTRACTING OFFICER SPECIFIED ACRN ORDER (SEP 2009)

The payment office shall make payment within the line item in the sequence ACRN order specified below, exhausting all funds in the previous ACRN before paying from the next ACRN.

Line Item ACRN Order TBD ON ORDER BY ORDER BASIS AS APPLICABLE

252.204-0007 CONTRACT-WIDE: SEQUENTIAL ACRN ORDER (SEP 2009)

The payment office shall make payment in sequential ACRN order within the contract or order, exhausting all funds in the previous ACRN before paying from the next ACRN using the following sequential order: alpha/alpha; alpha/numeric; numeric/alpha; and numeric/numeric.

252.204-0008 CONTRACT-WIDE: CONTRACTING OFFICER SPECIFIED ACRN ORDER (SEP 2009)

The payment office shall make payment in sequential ACRN order within the contract or order, exhausting all funds in the previous ACRN before paying from the next ACRN in the sequence order specified below:

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

ACRN	SUBCLIN NO.	TOTAL OBLIGATED
TBD on each Task Order		

a. This contract may 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 may 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.

G002 PROGRAM MANAGER (MAY 1997) (TAILORED)

Program Manager/Project Engineer: TBD on each Task Order

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
TBD on each Task Order		

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.

G006 INVOICE AND PAYMENT - COST REIMBURSEMENT (FEB 1997) (TAILORED)

Invoices (or public vouchers), supported by a statement of cost for performance under this contract, shall be submitted to the cognizant Defense Contract Audit Agency (DCAA) office. Under the provisions of DFARS 242.803(b), the DCAA auditor is designated as the authorized representative of the contracting officer (CO) for examining vouchers received directly from the contractor.

SPECIFIC PAYMENT INSTRUCTIONS MAY APPLY AS FOLLOWS TBD ON INDIVIDUAL ORDER BASIS: "Payment for all effort under this contract will be made at the SUBCLIN level with the specific ACRN specified for that SUBCLIN." TBD ON ORDER BY ORDER BASIS

I. NOTICE: The following contract clauses pertinent to this section are hereby incorporated in full text:

OTHER CONTRACT CLAUSES IN FULL TEXT

H011 GUARANTEED FINAL REPORT (FEB 1997)

If this contract is terminated prior to completion, the Contractor agrees to provide a final report in accordance with Exhibit A, Data Item A001. During the life of the contract, the contractor shall continuously reserve sufficient funds from the amount allotted to guarantee the preparation and delivery of said final report.

H015 IMPLEMENTATION OF PATENT RIGHTS CLAUSE (IDIQ) (NOV 2011)

a. Interim or final Invention Reports 1) listing subject invention(s) and stating that all subject inventions have been disclosed, or 2) stating that there are no such inventions, shall be submitted FOR EACH ORDER to both the Administrative Contracting Officer at the address located on the face of the contract and to the Contracting Officer/Patent Administrator at det1.afrl.pk.patents@wpafb.af.mil, with a courtesy copy (cc:) to the government Program Manager/Project Engineer, within the timeframes specified in the clause. Please include in the subject line of the e-mail the contract number followed by the words "Invention Reporting." Also include in the body of the e-mail the names of the Government Project Engineer/Program Manager and his/her office symbol. Contractors are highly encouraged to use DD Form 882, Report of Invention and Subcontracts to submit these reports. The DD Form 882 may also be used for the notification of an award of any subcontract(s) for experimental, developmental or research work which contain a "Patent Rights" clause.

b. All other notifications (e.g., disclosure of each subject invention to the Contracting Officer within 2 months after the inventor discloses it) shall also be sent to the e-mail address above, with a courtesy copy (cc:) to the government Program Manager/Project Engineer.

c. This provision also constitutes the request for the following information for any subject invention for which the contractor has retained ownership, 1) the filing date, 2) serial number and title, 3) a copy of the patent application and 4) patent number and issue date. Submittal shall be to the Contracting Officer/Patent Administrator e-mail address listed above, with a courtesy copy (cc:) to the government Program Manager/Project Engineer.

H025 INCORPORATION OF SECTION K (OCT 1998)

Section K of the solicitation is hereby incorporated by reference.

H063 CONTRACTOR IDENTIFICATION (FEB 2003)

(a) Contractor personnel and their subcontractors must identify themselves as Contractors or subcontractors during meetings, telephone conversations, in electronic messages, or correspondence related to this contract.

(b) Contractor-occupied facilities (on AFMC or other Government installations) such as offices, separate rooms, or cubicles must be clearly identified with Contractor supplied signs, name plates or other identification, showing that these are work areas for Contractor or subcontractor personnel.

H087 GOVERNMENT- FURNISHED PROPERTY (GFP) (FEB 2003) (TAILORED)

Pursuant to the Government Property clause herein, the Government shall furnish the item(s) of property listed below as Government-Furnished Property (GFP) to the Contractor, f.o.b. TBD ON AN ORDER BY ORDER BASIS, for use in performance of this contract. Upon completion of the contract, the Contractor shall obtain disposition instructions from the Government Property Administrator of the activity having responsibility for administration of the contract.

The listing shall include, at a minimum:

- The name, commercial part number, bulk identifier, and NSN;
- Quantity/unit of measure;
- Unit acquisition cost;
- Unique-item identifier or equivalent (its UID)
- The CO must state if the property is to be furnished "as is".
- Delivery Date

TBD ON AN ORDER BY ORDER BASIS

H092 COMMUNICATIONS SECURITY (COMSEC) MONITORING (AUG 2005)

All communications with DoD organizations are subject to Communications Security (COMSEC) review. Contractor personnel will be aware that telecommunications networks are continually subject to interception by unfriendly intelligence organizations. The DoD has authorized the military departments to conduct COMSEC monitoring and recording of telephone calls originating from or terminating at DoD organizations. Therefore, civilian contractor personnel are advised that any time they place a call to or receive a call from a USAF organization they are subject to COMSEC procedures. The Contractor will assume the responsibility for ensuring wide and frequent dissemination of the above information to all employees dealing with official DoD information.

H094 CONTRACTING OFFICER AUTHORIZATION (AUG 2005)

The Contracting Officer shall be the only individual authorized to direct and/or redirect the effort or in any way amend any of the terms of this contract, other than those instances specifically delegated to an Administrative Contracting Officer or a Termination Contracting Officer by a contract clause of this contract or in writing by the Procuring Contracting Officer (PCO). For purposes of this contract "the Contracting Officer" is the individual located at the issuing office, and may be abbreviated as "CO" or "PCO". Any changes made by the contractor WITHOUT CO authority will be made at the contractor's own risk.

H097 ACKNOWLEDGEMENT OF SPONSORSHIP (APR 2006)

(a) The contractor agrees that in the release of information relating to this contract such release shall include a statement to the effect that the project or effort depicted was or is sponsored by the Air Force Research Laboratory (AFRL).

(b) For the purpose of this clause, "information" includes but is not limited to material presented in news releases, articles, manuscripts, brochures, advertisements, still and motion pictures, speeches, presentations, meetings, conferences, symposia, etc.

(c) Nothing in the foregoing shall affect compliance with the requirements of the clause (if applicable) of this contract entitled "Security Requirements".

(d) The contractor further agrees to include this provision in any subcontracts awarded as a result of this contract.

H098 BASE SUPPORT (SEP 2011)

Base support shall be provided by the Government to the Contractor in accordance with this provision.

(a) Base support includes Government-controlled working space, material, equipment, services (including automatic data processing), or other support, use of the Defense Switched Network (DSN), which the Government determines can be made available at, or through, any Air Force installation where this contract shall be performed. All Government property in the possession of the Contractor, provided through the base support provision, shall be used and managed in accordance with the Government Property clauses.

(b) Unless otherwise stipulated in the contract schedule, support shall be provided on a no-charge-for-use basis and the value shall be a part of the Government's contract consideration.

(c) The Contractor agrees to immediately report (with a copy to the cognizant CAO) inadequacies, defective Government-Furnished Property (GFP), or nonavailability of support stipulated by the contract schedule, together with a recommended plan for obtaining the required support. Facilities shall not be purchased under this provision. Additionally, the Contractor (or authorized representative) shall not purchase, or otherwise furnish any base support requirement provided by the provision (or authorize others to do so), without prior written approval of the Contracting Officer regarding the price, terms, and conditions of the proposed purchase, or approval of other arrangements.

(d) Following are installations where base support will be provided (insert list of installations).

Ft. Sam Houston, TX

(e) The Government support to be furnished under this contract is (insert list of support items:

All base support will be provided at, building 3260, 4141 Petroleum Dr, Ft Sam Houston. Base support items include: Gov't-Owned Hazardous Materials, Office space, research laboratory space, office and research equipment, specialized research or test facilities, data storage facilities to include IT infrastructure including PCs, servers, and/or data storage and retrieval systems. Contractor will be provided with access to a 1/4 ton pickup truck, 1/2 ton pickup truck, 9 passenger van, 1/2 ton cargo van and slow speed vehicles, to be used in accordance with AIR FORCE INSTRUCTION 24-301, dated 01 November 2008, incorporating through Change 2 on 11 May 2012, certified current as of 17 August 2012. The Contractor will be provided with identification badges, building access and/or security cards/passes, and car registration. Class "C" telephones, Defense Switched Network (DSN) accessibility, Unclassified but Sensitive Internet Protocol Router Network (NIPRnet), Secret Internet Protocol Router Network (SIPRnet) and email access.

Because of the nature and location(s) of the work performed, the value of such equipment is undeterminable. The Contractor shall not incur any cost resulting from nonsupport prior to Contracting Officer concurrence in accordance with this provision.

ALTERNATE I

(f) The Contractor agrees that in the performance of this contract or any major subcontract no direct or indirect costs for property will be incurred if the Government determines that property is available at, or through any Air Force installation where this contract shall be performed.

H099 EXPORT CONTROLLED DATA RESTRICTIONS (APR 2012)

EXPORT-CONTROLLED DATA RESTRICTIONS

(a) For the purpose of this clause,

(1) Foreign person is any person who is not a citizen or national of the U.S. or lawfully admitted to the U.S. for permanent residence under the Immigration and Nationality Act, and includes foreign corporations, international organizations, and foreign governments;

(2) Foreign representative is anyone, regardless of nationality or citizenship, acting as an agent, representative, official, or employee of a foreign government, a foreign-owned or influenced firm, corporation or person;

(3) Foreign sources are those sources (vendors, subcontractors, and suppliers) owned and controlled by a foreign person; and

(b) The Contractor shall place a clause in subcontracts containing appropriate export control restrictions, set forth in this clause.

(c) Nothing in this clause waives any requirement imposed by any other U.S. Government agency with respect to employment of foreign nationals or export controlled data and information.

(d) Equipment and technical data generated or delivered under this contract are controlled by the International Traffic in Arms Regulation (ITAR), 22 CFR Sections 121 through 128. An export license is required before assigning any foreign source to perform work under this contract or before granting access to foreign persons to any equipment and technical data generated or delivered during performance (see 22 CFR Section 125). The Contractor shall notify the Contracting Officer and obtain written approval of the Contracting Officer prior to assigning or granting access to any work, equipment, or technical data generated or delivered under this contract to foreign persons or their representatives. The notification shall include the name and country of origin of the foreign person or representative, the specific work, equipment, or data to which the person will have access, and whether the foreign person is cleared to have access to technical data (DoD 5220.22-M, National Industrial Security Program Operating Manual (NISPOM) <<http://www.dtic.mil/whs/directives/corres/html/522022m.htm>>).

(END CLAUSE)

H101 INCORPORATION OF SUBCONTRACTING PLAN (APR 2012)

In accordance with FAR 52.219-9, Small Business Subcontracting Plan, the subcontracting plan, dated 12 APR 2013, contained in contractor's proposal for the Basic IDIQ Contract Ceiling amount of \$49,000,000.00, is incorporated herein by reference.

H102 VOLUNTARY PROTECTION PROGRAM AND INCORPORATION OF SAFETY AND HEALTH PLAN (JUN 2013)

1. The contractors accepted Safety and Health Plan dated 12 APR 2013 is hereby incorporated by reference.

2. Voluntary Protection Program (VPP) applies only to contractors whose employees work more than 1000 hours per quarter on a government installation. VPP requires that contractors provide their employees safety and health protection equal in quality to that provided to Air Force employees. Contractors are responsible for managing their safety and health program, ensuring that the safety and health rules of the installation are followed, and flowing down VPP requirements to all subcontractors whose employees work for more than 1000 hours per quarter on a government installation under their contract.

3. Contractors shall provide their Total Case Incidence Rate (TCIR) and Day

PART I - THE SCHEDULE
SECTION H - SPECIAL CONTRACT REQUIREMENTS

Away, Restricted, and or Transfer Case Rate (DART) data and OSHA Form 300 Annually by the 15th of January to the contracting officer for inclusion in the installation's annual VPP Safety and Health Management Report.

(End of clause)

Contract Clauses in this section are from the FAR, Defense FAR Sup, Air Force FAR Sup, and the Air Force Materiel Command FAR Sup, and are current through the following updates:

Database_Version: 6.14.x.800; Issued: 8/15/2013; FAR: FAC 2005-69 (Partial); DFAR: DPN 20130808; DL: DL 98-021; Class Deviations: CD 2013-00016; AFFAR: 2002 Edition; AFAC: AFAC 2013-0327; IPN: 98-009

I. **NOTICE:** The following contract clauses pertinent to this section are hereby incorporated by reference:

A. FEDERAL ACQUISITION REGULATION CONTRACT CLAUSES

52.202-01	DEFINITIONS (JAN 2012)
52.203-03	GRATUITIES (APR 1984)
52.203-05	COVENANT AGAINST CONTINGENT FEES (APR 1984)
52.203-06	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT (SEP 2006)
52.203-07	ANTI-KICKBACK PROCEDURES (OCT 2010)
52.203-08	CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)
52.203-10	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)
52.203-12	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (OCT 2010)
52.203-13	CONTRACTOR CODE OF BUSINESS ETHICS AND CONDUCT (APR 2010)
52.204-02	SECURITY REQUIREMENTS (AUG 1996)
52.204-04	PRINTED OR COPIED DOUBLE-SIDED ON POSTCONSUMER FIBER CONTENT PAPER (MAY 2011)
52.204-09	PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (JAN 2011)
52.204-10	REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (JUL 2013)
52.204-13	CENTRAL CONTRACTOR REGISTRATION MAINTENANCE (DEC 2012)
52.208-08	REQUIRED SOURCES FOR HELIUM AND HELIUM USAGE DATA (APR 2002)
52.209-06	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (DEC 2010)
52.209-09	UPDATES OF PUBLICLY AVAILABLE INFORMATION REGARDING RESPONSIBILITY MATTERS (FEB 2012)
52.209-10	PROHIBITION ON CONTRACTING WITH INVERTED DOMESTIC CORPORATIONS (MAY 2012)
52.210-01	MARKET RESEARCH (APR 2011)
52.211-05	MATERIAL REQUIREMENTS (AUG 2000)
52.215-02	AUDIT AND RECORDS – NEGOTIATION (OCT 2010)
52.215-08	ORDER OF PRECEDENCE–UNIFORM CONTRACT FORMAT (OCT 1997)
52.215-11	PRICE REDUCTION FOR DEFECTIVE CERTIFIED COST OR PRICING DATA–MODIFICATIONS (AUG 2011)
52.215-13	SUBCONTRACTOR CERTIFIED COST OR PRICING DATA–MODIFICATIONS (OCT 2010)
52.215-14	INTEGRITY OF UNIT PRICES (OCT 2010)
52.215-15	PENSION ADJUSTMENTS AND ASSET REVERSIONS (OCT 2010)
52.215-17	WAIVER OF FACILITIES CAPITAL COST OF MONEY (OCT 1997)
52.215-18	REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS (PRB) OTHER THAN PENSIONS (JUL 2005)
52.215-19	NOTIFICATION OF OWNERSHIP CHANGES (OCT 1997)

PART II - CONTRACT CLAUSES
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52.215-21	REQUIREMENTS FOR CERTIFIED COST OR PRICING DATA AND DATA OTHER THAN CERTIFIED COST OR PRICING DATA--MODIFICATIONS (OCT 2010)
52.215-23	LIMITATIONS ON PASS-THROUGH CHARGES (OCT 2009)
52.216-07	ALLOWABLE COST AND PAYMENT (JUN 2013)
52.216-08	FIXED FEE (JUN 2011)
52.216-18	ORDERING (OCT 1995) Para (a), Issued from date is 'Contract Effective Date' Para (a), Issued through date is '60 months thereafter'
52.216-19	ORDER LIMITATIONS (OCT 1995) Para (a), Insert Dollar amount or quantity. '\$100,000.00' Para (b)(1), Insert dollar amount or quantity '\$19,000,000.00' Para (b)(2), Insert dollar amount or quantity. '\$19,000,000.00' Para (b)(3), Insert number of days. '30' Para (d), Insert number of days. '15'
52.216-22	INDEFINITE QUANTITY (OCT 1995) Para (d), Date is '78 months from the Effective date of the contract as reflected in Block 3 of the Basic IDIQ Contract cover page'
52.219-04	NOTICE OF PRICE EVALUATION PREFERENCE FOR HUBZONE SMALL BUSINESS CONCERNS (JAN 2011)
52.219-08	UTILIZATION OF SMALL BUSINESS CONCERNS (JAN 2011)
52.219-09	SMALL BUSINESS SUBCONTRACTING PLAN (JAN 2011)
52.219-16	LIQUIDATED DAMAGES -- SUBCONTRACTING PLAN (JAN 1999)
52.219-28	POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION (APR 2012)
52.222-02	PAYMENT FOR OVERTIME PREMIUMS (JUL 1990) Para (a), Dollar amount is 'TBD ON AN ORDER BY ORDER BASIS'
52.222-03	CONVICT LABOR (JUN 2003)
52.222-21	PROHIBITION OF SEGREGATED FACILITIES (FEB 1999)
52.222-26	EQUAL OPPORTUNITY (MAR 2007)
52.222-35	EQUAL OPPORTUNITY FOR VETERANS (SEP 2010)
52.222-36	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES (OCT 2010)
52.222-37	EMPLOYMENT REPORTS ON VETERANS (SEP 2010)
52.222-40	NOTIFICATION OF EMPLOYEE RIGHTS UNDER THE NATIONAL LABOR RELATIONS ACT (DEC 2010)
52.222-50	COMBATING TRAFFICKING IN PERSONS (FEB 2009)
52.222-54	EMPLOYMENT ELIGIBILITY VERIFICATION (JUL 2012)
52.223-03	HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (JAN 1997) Para (b), Material Identification No: 'See Section J for attached list of hazardous materials that are projected to be delivered to the government that would be used on the task orders issued under the Basic IDIQ contract as needed.'
52.223-05	POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION (MAY 2011)
52.223-05	POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION (MAY 2011) - ALTERNATE I (MAY 2011)
52.223-06	DRUG-FREE WORKPLACE (MAY 2001)
52.223-07	NOTICE OF RADIOACTIVE MATERIALS (JAN 1997) Para (a), Number of days is '45 days'
52.223-11	OZONE-DEPLETING SUBSTANCES (MAY 2001)
52.223-15	ENERGY EFFICIENCY IN ENERGY-CONSUMING PRODUCTS (DEC 2007)
52.223-16	IEEE 1680 STANDARD FOR THE ENVIRONMENTAL ASSESSMENT OF PERSONAL COMPUTER PRODUCTS (DEC 2007)
52.223-18	ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING (AUG 2011)
52.223-19	COMPLIANCE WITH ENVIRONMENTAL MANAGEMENT SYSTEMS (MAY 2011)
52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUN 2008)
52.227-01	AUTHORIZATION AND CONSENT (DEC 2007) - ALTERNATE I (APR 1984)

PART II - CONTRACT CLAUSES
SECTION I - CONTRACT CLAUSES

52.227-02	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT (DEC 2007)
52.227-10	FILING OF PATENT APPLICATIONS -- CLASSIFIED SUBJECT MATTER (DEC 2007)
52.228-07	INSURANCE -- LIABILITY TO THIRD PERSONS (MAR 1996)
52.230-02	COST ACCOUNTING STANDARDS (MAY 2012)
52.230-03	DISCLOSURE AND CONSISTENCY OF COST ACCOUNTING PRACTICES (MAY 2012)
52.230-06	ADMINISTRATION OF COST ACCOUNTING STANDARDS (JUN 2010)
52.232-09	LIMITATION ON WITHHOLDING OF PAYMENTS (APR 1984)
52.232-17	INTEREST (OCT 2010)
52.232-18	AVAILABILITY OF FUNDS (APR 1984)
52.232-20	LIMITATION OF COST (APR 1984)
52.232-22	LIMITATION OF FUNDS (APR 1984)
52.232-23	ASSIGNMENT OF CLAIMS (JAN 1986) - ALTERNATE I (APR 1984)
52.232-25	PROMPT PAYMENT (OCT 2008)
52.232-33	PAYMENT BY ELECTRONIC FUNDS TRANSFER--CENTRAL CONTRACTOR REGISTRATION (OCT 2003)
52.233-01	DISPUTES (JUL 2002)
52.233-03	PROTEST AFTER AWARD (AUG 1996) - ALTERNATE I (JUN 1985)
52.233-04	APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM (OCT 2004)
52.237-02	PROTECTION OF GOVERNMENT BUILDINGS, EQUIPMENT AND VEGETATION (APR 1984)
52.242-01	NOTICE OF INTENT TO DISALLOW COSTS (APR 1984)
52.242-03	PENALTIES FOR UNALLOWABLE COSTS (MAY 2001)
52.242-04	CERTIFICATION OF FINAL INDIRECT COSTS (JAN 1997)
52.242-13	BANKRUPTCY (JUL 1995)
52.243-02	CHANGES -- COST-REIMBURSEMENT (AUG 1987) - ALTERNATE V (APR 1984)
52.243-07	NOTIFICATION OF CHANGES (APR 1984) Para (b), Number of calendar days is (insert 30 for RDSS/C) '30 days' Para (d), Number of calendar days is (insert 30 for RDSS/C) '30 days'
52.244-02	SUBCONTRACTS (OCT 2010) Para (d), approval required on subcontracts: 'NONE' Para (j), Insert subcontracts evaluated during negotiations. 'N/A'
52.244-05	COMPETITION IN SUBCONTRACTING (DEC 1996)
52.244-06	SUBCONTRACTS FOR COMMERCIAL ITEMS (DEC 2010)
52.245-01	GOVERNMENT PROPERTY (APR 2012)
52.245-09	USE AND CHARGES (APR 2012)
52.246-23	LIMITATION OF LIABILITY (FEB 1997)
52.247-01	COMMERCIAL BILL OF LADING NOTATIONS (FEB 2006)
52.247-67	SUBMISSION OF TRANSPORTATION DOCUMENTS FOR AUDIT (FEB 2006) Para (c). Insert address. "ADMINISTRATIVE CONTRACTING OFFICER', ADDRESS IN BLOCK 6 OF THE BASIC IDIQ CONTRACT COVER PAGE'
52.249-06	TERMINATION (COST-REIMBURSEMENT) (MAY 2004)
52.249-14	EXCUSABLE DELAYS (APR 1984)
52.251-01	GOVERNMENT SUPPLY SOURCES (APR 2012)
52.253-01	COMPUTER GENERATED FORMS (JAN 1991)

B. DEFENSE FEDERAL ACQUISITION REGULATION SUPPLEMENT CONTRACT CLAUSES

252.201-7000	CONTRACTING OFFICER'S REPRESENTATIVE (DEC 1991)
252.203-7000	REQUIREMENTS RELATING TO COMPENSATION OF FORMER DOD OFFICIALS (SEP 2011)
252.203-7001	PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER DEFENSE-CONTRACT-RELATED FELONIES (DEC 2008)
252.203-7002	REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS (JAN 2009)

PART II - CONTRACT CLAUSES
SECTION I - CONTRACT CLAUSES

- 252.203-7003 AGENCY OFFICE OF THE INSPECTOR GENERAL (DEC 2012)
252.203-7004 DISPLAY OF FRAUD HOTLINE POSTER(S) (DEC 2012)
Para (b)(2). C.O. enters contact information. 'TBD ON ORDER BY ORDER BASIS'
- 252.204-7002 PAYMENT FOR SUBLINE ITEMS NOT SEPARATELY PRICED (DEC 1991)
252.204-7003 CONTROL OF GOVERNMENT PERSONNEL WORK PRODUCT (APR 1992)
252.204-7004 ALTERNATE A, SYSTEM FOR AWARD MANAGEMENT (MAY 2013)
252.204-7005 ORAL ATTESTATION OF SECURITY RESPONSIBILITIES (NOV 2001)
252.204-7006 BILLING INSTRUCTIONS (OCT 2005)
252.205-7000 PROVISION OF INFORMATION TO COOPERATIVE AGREEMENT HOLDERS (DEC 1991)
- 252.209-7004 SUBCONTRACTING WITH FIRMS THAT ARE OWNED OR CONTROLLED BY THE GOVERNMENT OF A TERRORIST COUNTRY (DEC 2006)
- 252.211-7003 ITEM IDENTIFICATION AND VALUATION (JUN 2013)
Para (c)(1)(ii). Items with acquisition cost less than \$5,000. 'TBD ON ORDER BY ORDER BASIS'
Para (c)(1)(iii). Attachment Nr. 'TBD ON ORDER BY ORDER BASIS'
- 252.211-7007 REPORTING OF GOVERNMENT-FURNISHED PROPERTY (AUG 2012)
252.211-7008 USE OF GOVERNMENT-ASSIGNED SERIAL NUMBERS (SEP 2010)
252.215-7000 PRICING ADJUSTMENTS (DEC 2012)
252.216-7006 ORDERING (MAY 2011)
Para (a). Date. 'the Effective Date of the Contract as reflected in Block 3 of the contract cover page'
Para (a). Date '60 months from the Effective Date of the contract that is reflected in Block 3 of the Contract Cover Page.'
- 252.219-7003 SMALL BUSINESS SUBCONTRACTING PLAN (DOD CONTRACTS) (AUG 2012)
252.219-7003 SMALL BUSINESS SUBCONTRACTING PLAN (DOD CONTRACTS) (AUG 2012) - ALTERNATE I (OCT 2010)
- 252.222-7006 RESTRICTIONS ON THE USE OF MANDATORY ARBITRATION AGREEMENTS (DEC 2010)
- 252.223-7001 HAZARD WARNING LABELS (DEC 1991)
252.223-7004 DRUG-FREE WORK FORCE (SEP 1988)
252.223-7006 PROHIBITION ON STORAGE AND DISPOSAL OF TOXIC AND HAZARDOUS MATERIALS (APR 2012)
- 252.223-7008 PROHIBITION OF HEXAVALENT CHROMIUM (JUN 2013)
252.225-7004 REPORT OF INTENDED PERFORMANCE OUTSIDE THE UNITED STATES AND CANADA--SUBMISSION AFTER AWARD (OCT 2010)
- 252.225-7006 QUARTERLY REPORTING OF ACTUAL CONTRACT PERFORMANCE OUTSIDE THE UNITED STATES (OCT 2010)
- 252.225-7007 PROHIBITION ON ACQUISITION OF UNITED STATES MUNITIONS LIST ITEMS FROM COMMUNIST CHINESE MILITARY COMPANIES (SEP 2006)
- 252.225-7008 RESTRICTION ON ACQUISITION OF SPECIALTY METALS (MAR 2013)
252.225-7009 RESTRICTION ON ACQUISITION OF CERTAIN ARTICLES CONTAINING SPECIALTY METALS (JUN 2013)
- 252.225-7012 PREFERENCE FOR CERTAIN DOMESTIC COMMODITIES (FEB 2013)
252.225-7016 RESTRICTION ON ACQUISITION OF BALL AND ROLLER BEARINGS (JUN 2011)
252.225-7030 RESTRICTION ON ACQUISITION OF CARBON, ALLOY, AND ARMOR STEEL PLATE (DEC 2006)
- 252.225-7048 EXPORT-CONTROLLED ITEMS (JUN 2013)
252.226-7001 UTILIZATION OF INDIAN ORGANIZATIONS, INDIAN-OWNED ECONOMIC ENTERPRISES, AND NATIVE HAWAIIAN SMALL BUSINESS CONCERNS (SEP 2004)
- 252.227-7013 RIGHTS IN TECHNICAL DATA--NONCOMMERCIAL ITEMS (JUN 2013)
252.227-7014 RIGHTS IN NONCOMMERCIAL COMPUTER SOFTWARE AND NONCOMMERCIAL COMPUTER SOFTWARE DOCUMENTATION (MAY 2013)
- 252.227-7015 TECHNICAL DATA--COMMERCIAL ITEMS (JUN 2013)
252.227-7016 RIGHTS IN BID OR PROPOSAL INFORMATION (JAN 2011)
252.227-7019 VALIDATION OF ASSERTED RESTRICTIONS--COMPUTER SOFTWARE (SEP 2011)

PART II - CONTRACT CLAUSES
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- 252.227-7025 LIMITATIONS ON THE USE OR DISCLOSURE OF GOVERNMENT-FURNISHED INFORMATION MARKED WITH RESTRICTIVE LEGENDS (MAY 2013)
- 252.227-7030 TECHNICAL DATA--WITHHOLDING OF PAYMENT (MAR 2000)
- 252.227-7037 VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA (JUN 2013)
- 252.227-7038 PATENT RIGHTS--OWNERSHIP BY THE CONTRACTOR (LARGE BUSINESS) (JUN 2012)
- 252.231-7000 SUPPLEMENTAL COST PRINCIPLES (DEC 1991)
- 252.232-7003 ELECTRONIC SUBMISSION OF PAYMENT REQUESTS AND RECEIVING REPORTS (JUN 2012)
- 252.232-7010 LEVIES ON CONTRACT PAYMENTS (DEC 2006)
- 252.235-7002 ANIMAL WELFARE (DEC 2011)
- 252.235-7003 FREQUENCY AUTHORIZATION (DEC 1991)
- 252.235-7004 PROTECTION OF HUMAN SUBJECTS (JUL 2009)
- 252.235-7010 ACKNOWLEDGMENT OF SUPPORT AND DISCLAIMER (MAY 1995)
Para (a), name of contracting agency(ies): 'United States Air Force'
Para (a), contract number(s): 'SEE BLOCK 2 OF COVER PAGE FOR CONTRACT NUMBER'
Para (b), name of contracting agency(ies): 'United States Air Force'
- 252.235-7011 FINAL SCIENTIFIC OR TECHNICAL REPORT (NOV 2004)
- 252.242-7004 MATERIAL MANAGEMENT AND ACCOUNTING SYSTEM (MAY 2011)
- 252.242-7005 CONTRACTOR BUSINESS SYSTEMS (FEB 2012)
- 252.242-7006 ACCOUNTING SYSTEM ADMINISTRATION (FEB 2012)
- 252.243-7002 REQUESTS FOR EQUITABLE ADJUSTMENT (DEC 2012)
- 252.244-7000 SUBCONTRACTS FOR COMMERCIAL ITEMS (JUN 2013)
- 252.244-7001 CONTRACTOR PURCHASING SYSTEM ADMINISTRATION (JUN 2012)
- 252.245-7001 TAGGING, LABELING, AND MARKING OF GOVERNMENT-FURNISHED PROPERTY (APR 2012)
- 252.245-7002 REPORTING LOSS OF GOVERNMENT PROPERTY (APR 2012)
- 252.245-7003 CONTRACTOR PROPERTY MANAGEMENT SYSTEM ADMINISTRATION (APR 2012)
- 252.245-7004 REPORTING, REUTILIZATION, AND DISPOSAL (MAY 2013)
- 252.246-7003 NOTIFICATION OF POTENTIAL SAFETY ISSUES (JUN 2013)
- 252.247-7023 TRANSPORTATION OF SUPPLIES BY SEA (JUN 2013)
- 252.247-7024 NOTIFICATION OF TRANSPORTATION OF SUPPLIES BY SEA (MAR 2000)
- 252.251-7000 ORDERING FROM GOVERNMENT SUPPLY SOURCES (AUG 2012)
Para (f), Contractor's address is 'TBD ON AN ORDER BY ORDER BASIS'
Para (f), Government remittance address is 'TBD ON AN ORDER BY ORDER BASIS'

C. AIR FORCE FEDERAL ACQUISITION REGULATION SUPPLEMENT CONTRACT CLAUSES

- 5352.201-9101 OMBUDSMAN (NOV 2012)
Para (c). Ombudsmen names, addresses, phone numbers, fax, and email addresses.
'BARBARA GEHRS; EMAIL: BARBARA.GEHRS@WPAFB.AF.MIL OR PHONE: 937-674-4407'
- 5352.204-9000 NOTIFICATION OF GOVERNMENT SECURITY ACTIVITY AND VISITOR GROUP SECURITY AGREEMENTS (MAR 2012)
- 5352.223-9000 ELIMINATION OF USE OF CLASS I OZONE DEPLETING SUBSTANCES (ODS) (NOV 2012)
- 5352.223-9001 HEALTH AND SAFETY ON GOVERNMENT INSTALLATIONS (NOV 2012)
- 5352.242-9000 CONTRACTOR ACCESS TO AIR FORCE INSTALLATIONS (NOV 2012)
Para (b), Any additional requirements to comply with local security procedures 'any other required documentation as directed by Government personnel located at Government facilities'
Para (d). Additional requirements. 'all regulations'

II. **NOTICE:** The following contract clauses pertinent to this section are hereby incorporated in full text:

A. FEDERAL ACQUISITION REGULATION CONTRACT CLAUSES IN FULL TEXT

52.211-15 DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS (APR 2008)

This is a rated order certified for national defense, emergency preparedness, and energy program use, and the Contractor shall follow all the requirements of the Defense Priorities and Allocations System regulation (15 CFR 700).

52.252-02 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): <http://farsite.hill.af.mil/>

52.252-06 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

B. AIR FORCE FEDERAL ACQUISITION REGULATION SUPPLEMENT CONTRACT CLAUSES IN FULL TEXT

5352.209-9000 ORGANIZATIONAL CONFLICT OF INTEREST (OCT 2010) (TAILORED)

5352.209-9000 ORGANIZATIONAL CONFLICT OF INTEREST (OCT 2010) (TAILORED) - Alternates III, IV and VI

(a) The following restrictions and definitions apply to prevent conflicting roles which may bias the Contractor's judgment or objectivity, or to preclude the Contractor from obtaining an unfair competitive advantage in concurrent or future acquisitions.

(1) Descriptions or definitions:

"Contractor" means the business entity receiving the award of this contract, its parents, affiliates, divisions and subsidiaries.

"Development" means all efforts towards solution of broadly-defined problems. This may encompass research, evaluating technical feasibility, proof of design and test, or engineering of programs not yet approved for acquisition or operation.

"Proprietary Information" means all information designated as proprietary in accordance with law and regulation, and held in confidence or disclosed under restriction to prevent uncontrolled distribution. Examples include limited or restricted data, trade secrets, sensitive financial information, and computer software; and may appear in cost and pricing data or involve classified information.

"System" means the system that is the subject of this contract.

"System Life" means all phases of the system's development, production, or support.

"Systems Engineering" means preparing specifications, identifying and resolving interface problems, developing test requirements, evaluating test data, and supervising design.

"Technical Direction" means developing work statements, determining parameters, directing other Contractors' operations, or resolving technical controversies.

(b) The Contractor may gain access to proprietary information of other companies during contract performance. The Contractor agrees to enter into company-to-company agreements to:

(1) protect another company's information from unauthorized use or disclosure for as long as it is considered proprietary by the other company; and,

(2) to refrain from using the information for any purpose other than that for which it was furnished. For information purposes, the Contractor shall furnish copies of these agreements to the Contracting Officer. These agreements are not intended to protect information which is available to the Government or the Contractor from other sources and furnished voluntarily without restriction (Alternate III).

(c) The Contractor agrees to accept and to complete all issued task orders, and not to contract with Government prime Contractors or first-tier subcontractors in such a way as to create an organizational conflict of interest (Alternate IV).

(d) The above restrictions shall be included in all subcontracts, teaming arrangements, and other agreements calling for performance of work which is subject to the organizational conflict of interest restrictions identified in this clause, unless excused in writing by the Contracting Officer (Alternate VI).

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

(a) For installation(s)/location(s) cited in the contract, contractors shall ensure Common Access Cards (CACs) are obtained by all contract or subcontract personnel who meet one or both of the following criteria:

(1) Require logical access to Department of Defense computer networks and systems in either:

(i) the unclassified environment; or

(ii) the classified environment where authorized by governing security directives.

(2) Perform work, which requires the use of a CAC for installation entry control or physical access to facilities and buildings.

(b) Contractors and their personnel shall use the following procedures to obtain CACs:

(1) Contractors shall provide a listing of personnel who require a CAC to the contracting officer. The government will provide the contractor instruction on how to complete the Contractor Verification System (CVS) application and then notify the contractor when approved.

(2) Contractor personnel shall obtain a CAC from the nearest Real Time Automated Personnel Identification Documentation System (RAPIDS) Issuing Facility (typically the local Military Personnel Flight (MPF)).

(3) Contractor personnel will proceed to the nearest CAC issuance workstation (usually the local Military Personnel Flight (MPF) with the DD Form 1172-2 and appropriate documentation to support their identification and/or citizenship. The CAC issuance workstation will then issue the CAC.

(c) While visiting or performing work on installation(s)/location(s), contractor personnel shall wear or prominently display the CAC as required by the governing local policy.

(d) During the performance period of the contract, the contractor shall:

(1) Within 7 working days of any changes to the listing of the contract personnel authorized a CAC, provide an updated listing to the contracting officer who will provide the updated listing to the authorizing government official;

(2) Return CACs in accordance with local policy/directives within 7 working days of a change in status for contractor personnel who no longer require logical or physical access;

(3) Return CACs in accordance with local policy/directives within 7 working days following a CACs expiration date; and

(4) Report lost or stolen CACs in accordance with local policy/directives.

(e) Within 7 working days following completion/termination of the contract, the contractor shall return all CACs issued to their personnel to the issuing office or the location specified by local policy/directives.

(f) Failure to comply with these requirements may result in withholding of final payment.

PART III - LIST OF DOCUMENTS, EXHIBITS & ATTACHMENTS
SECTION J - LIST OF ATTACHMENTS

DOCUMENT	PGS	DATE	TITLE
EXHIBIT A	11	26 NOV 2012	CONTRACT DATA REQUIREMENTS LIST, DD FORMS 1423
EXHIBIT A1	9		ANSI-BASED FORMAT GUIDELINES
EXHIBIT A2	2		SF 298 FORM
EXHIBIT A3	1	25 NOV 2008	AFRL FORM 25
ATTACHMENT 1	8	12 APR 2013	STATEMENT OF WORK ENTITLED, DIRECTED ENERGY BIO-MECHANISMS
ATTACHMENT 2	6	15 AUG 2013	DD FORM 254 SECURITY REQUIREMENTS
ATTACHMENT 3	20	18 JUL 2013	HAZARDOUS MATERIAL LISTING

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0001 B. EXHIBIT A C. CATEGORY: TDP _____ TM _____ OTHER _____

D. SYSTEM/ITEM E. CONTRACT/PR NO. FA8650-13-D-6368 F. CONTRACTOR

1. DATA ITEM NO. A001 2. TITLE OF DATA ITEM SCIENTIFIC AND TECHNICAL REPORTS 3. SUBTITLE Final Report

4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80711A/T 5. CONTRACT REFERENCE CSOW 6. REQUIRING OFFICE 711 HPW/RHDR

7. DD 250 REQ DD 9. DIST STATEMENT REQUIRED B 10. FREQUENCY ONE/R 12. DATE OF FIRST SUBMISSION See Block 16* 14. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Reg Final Repro

16. REMARKS
Blk 4: Tailored to allow for attached ANSI based AFRL Format Guidelines including Standard Form 298. Also to include, if the Final Report contains data that is being delivered with less than unlimited rights, the data with less-than-unlimited rights shall be delivered in an appropriately marked appendix to the Final Report. Block 10, is clarified so that, "Pursuant to DFARS 252.235-7011, the Government will forward the approved report to the Defense Technical Information Center (DTIC)."

BLOCK 9: B: Distribution authorized to US Government agencies only. () Other requests for this document shall be referred to 711 HPW/RHDR.

Block 11: End of Technical Effort.

Block 12: 30 days from Block 11.

Approval/Disapproval by letter from the Air Force Program Manager within 30 days after receipt.

Disapproval requires correction/resubmission within 30 days after receipt of Air Force comments.

Block 13: End of Contract, 90 days from Block 11.

Blocks 12 & 13: Contractor shall deliver the Final Report within 30 calendar days after completion of the technical effort. The AFRL Program Manager will take no more than 30 calendar days to review, edit, and return to the contractor. Upon receipt of the combined Technical and STINFO comments, the... (continued on next page)

15. TOTAL 2 2 0

G. PREPARED BY 711 HPW/RHDR, (210)539-7950 H. DATE 01-NOV-2012 I. APPROVED BY J. DATE 26-NOV-2012

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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(b)(6)

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

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____
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D. SYSTEM/ITEM	E. CONTRACT/PR NO. FA8650-13-D-6368	F. CONTRACTOR
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16. REMARKS (Continued)

contractor shall take no more than 30 calendar days to incorporate all required changes and deliver the final technical report in camera ready and in an editable text format (MS Word) on CD-ROM electronic copy. CD-ROM shall be labeled IAW ANSI based AFRL Format Guidelines.

Block 14: Draft submittal shall consist of 1 editable (MS Word) file on CD-ROM plus two (2) paper copies of all printable material. The final camera-ready (ANSI para 6.3.2.4) submittal shall consist of all editable text documents and all multimedia source files in current AF Standard Desktop format (MS Office compatible) and one (1) camera-ready document and one reproduction of all printable materials. Acceptance shall be in accordance with the ANSI based AFRL Format guidelines and the AFRL Quality Technical Report (TR) Checklist (attached). The checklist must be signed and submitted with the Final Report.

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT A	C. CATEGORY: TDP ____ TM ____ OTHER _____
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D. SYSTEM/ITEM	E. CONTRACT/PR NO. FA8650-13-D-6368	F. CONTRACTOR
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1. DATA ITEM NO. A002	2. TITLE OF DATA ITEM FUNDS AND MAN-HOUR EXPENDITURE REPORT	3. SUBTITLE
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4. AUTHORITY <i>(Data Acquisition Document No.)</i> DI-FNCL-80331A/T	5. CONTRACT REFERENCE CSOW	6. REQUIRING OFFICE 711 HPW/RHDR
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED B	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION **	14. DISTRIBUTION		
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8. APP CODE N/A	11. AS OF DATE *	13. DATE OF SUBSEQUENT SUBMISSION **	a. ADDRESSEE	b. COPIES		
				Draft	Reg	Repro

16. REMARKS Tailored to allow contractor's format. Submit electronically. * At the close of the contractor's monthly accounting period. ** 25 days after Block 11 time. BLOCK 9: B: Distribution authorized to US Government agencies only.	711 HPW/FM	0	1	0
	711 HPW/RHDR	0	1	0
	AFRL/RQKHA	0	1	0
	DCMA/ACO	0	1	0
15. TOTAL		0	4	0

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

G. PREPARED BY 711 HPW/RHDR, (210)539-7950	H. DATE 01-NOV-2012	I. APPROVED BY Dg	J. DATE 26-NOV-2012
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CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____
D. SYSTEM/ITEM		E. CONTRACT/PR NO. FA8650-13-D-6368
F. CONTRACTOR		

1. DATA ITEM NO. A005	2. TITLE OF DATA ITEM PRESENTATION MATERIAL	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-81373/T	5. CONTRACT REFERENCE CSOW	6. REQUIRING OFFICE 711 HPW/RHDR
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION *	14. DISTRIBUTION		
8. APP CODE N/A	B	11. AS OF DATE *	13. DATE OF SUBSEQUENT SUBMISSION *	a. ADDRESSEE 711 HPW/RHDR	b. COPIES	
					Draft	Final
					Reg	Repro

16. REMARKS

Tailored to require only view graphs or hard copy. Submittal of the actual viewgraph is not required if the presentation is computer generated.

ASREQ means as required to document topics under discussion at briefings and reviews.

* Submit at each briefing or review as appropriate.

Maximum # of view graphs shall not exceed 700 for this contract.

Submit reproducible on media compatible with MS-Office for Windows.

Submit electronically.

BLOCK 9: B: Distribution authorized to US Government agencies only.

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY ██████████ 711 HPW/RHDR, (210)539-7950	H. DATE 01-NOV-2012	I. APPROVED BY Dgt ██████████	J. DATE 26-NOV-2012
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CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____
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D. SYSTEM/ITEM	E. CONTRACT/PR NO. FA8650-13-D-6368	F. CONTRACTOR
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1. DATA ITEM NO. A006	2. TITLE OF DATA ITEM SOFTWARE USER MANUAL (SUM)	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-IPSC-81443A/T	5. CONTRACT REFERENCE CSOW	6. REQUIRING OFFICE 711 HPW/RHDR
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED B	10. FREQUENCY ASGEN	12. DATE OF FIRST SUBMISSION *	14. DISTRIBUTION		
8. APP CODE A		11. AS OF DATE *	13. DATE OF SUBSEQUENT SUBMISSION R/ASR	a. ADDRESSEE 711 HPW/RHDR	b. COPIES	
					Draft	Final
					Reg	Repro

16. REMARKS Tailored to allow contractor's format. * Submit electronically as generated through out the technical effort. Approval/disapproval by letter from the Air Force Program Manager within 15 days after receipt. Disapproval requires correction/resubmission within 15 days after receipt of Air Force comments. R/ASR means revisions as required to keep the SUM up to date, make changes or corrections; submit revisions as generated. Revisions are subject to the above stated approval/disapproval cycle. Submit reproducible on media compatible with MS-Office for Windows. BLOCK 9: B: Distribution authorized to US Government agencies only.							
	15. TOTAL				1	1	

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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G. PREPARED BY ████████████████████ 711 HPW/RHDR, (210)539-7950	H. DATE 01-NOV-2012	I. APPROVED BY ████████████████████ Dgt	J. DATE 26-NOV-2012
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CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0001			B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER _____							
D. SYSTEM/ITEM			E. CONTRACT/PR NO. FA8650-13-D-6368		F. CONTRACTOR							
1. DATA ITEM NO. A007	2. TITLE OF DATA ITEM TECHNICAL REPORT-STUDY / SERVICES				3. SUBTITLE Reports/Protocols							
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508B/T			5. CONTRACT REFERENCE CSOW		6. REQUIRING OFFICE 711 HPW/RHDR							
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED B	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION *		14. DISTRIBUTION						
8. APP CODE N/A		11. AS OF DATE *	13. DATE OF SUBSEQUENT SUBMISSION *		a. ADDRESSEE 711 HPW/RHDR	b. COPIES						
						Draft	Final					
						Reg	Repro					
16. REMARKS Tailored to allow contractor's format. Submit electronically. ASREQ means as required to document reports or protocols through out the technical effort. * Submit as generated. BLOCK 9: B: Distribution authorized to US Government agencies only.						0	1	0				
					15. TOTAL	0	1	0				

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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G. PREPARED BY 711 HPW/RHDR, (210)539-7950		H. DATE 01-NOV-2012	I. APPROVED BY Dg [Redacted]	J. DATE 26-NOV-2012
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CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____
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D. SYSTEM/ITEM	E. CONTRACT/PR NO. FA8650-13-D-6368	F. CONTRACTOR
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1. DATA ITEM NO. A008	2. TITLE OF DATA ITEM COMMERCIAL OFF-THE-SHELF (COTS) MANUAL AND ASSOCIATED SUPPLEMENTAL DATA	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-TMSS-80527C/T	5. CONTRACT REFERENCE CSOW	6. REQUIRING OFFICE 711 HPW/RHDR
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED B	10. FREQUENCY ASGEN	12. DATE OF FIRST SUBMISSION *	14. DISTRIBUTION		
8. APP CODE N/A	11. AS OF DATE *	13. DATE OF SUBSEQUENT SUBMISSION *	a. ADDRESSEE	b. COPIES		
				Draft	Final	
					Reg	Repro

16. REMARKS Tailored to allow contractor's format. Submit electronically. * ASGEN means as procured throughout this effort. BLOCK 9: B: Distribution authorized to US Government agencies only.	711 HPW/RHDR	0	1	0
	15. TOTAL	→	0	1

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY 711 HPW/RHDR, (210)539-7950	H. DATE 01-NOV-2012	I. APPROVED BY [Signature]	J. DATE 26-NOV-2012
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CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____
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D. SYSTEM/ITEM	E. CONTRACT/PR NO. FA8650-13-D-6368	F. CONTRACTOR
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1. DATA ITEM NO. A009	2. TITLE OF DATA ITEM TECHNICAL AND MANAGEMENT WORK PLAN	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81117/T	5. CONTRACT REFERENCE CSOW	6. REQUIRING OFFICE 711 HPW/RHDR
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED B	10. FREQUENCY ASGEN	12. DATE OF FIRST SUBMISSION *	14. DISTRIBUTION		
8. APP CODE A		11. AS OF DATE *	13. DATE OF SUBSEQUENT SUBMISSION **	a. ADDRESSEE 711 HPW/RHDR	b. COPIES	
					Draft	Final
					Reg	Repro

16. REMARKS

Tailored to allow contractor format.

Submit electronically.

* Submit as generated through out the technical effort.

Approval/disapproval by letter from the Air Force Program Manager within 15 days after receipt.

**Disapproval requires correction/resubmission within 15 days after receipt of Air Force comments.

BLOCK 9: B: Distribution authorized to US Government agencies only.

15. TOTAL	1	1	0
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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G. PREPARED BY 711 HPW/RHDR, (210)539-7950	H. DATE 01-NOV-2012	I. APPROVED BY Dg [Signature]	J. DATE 26-NOV-2012
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INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

- Item A.** Self-explanatory.
- Item B.** Self-explanatory.
- Item C.** Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as "Provisioning," "Configuration Management," etc.
- Item D.** Enter name of system/item being acquired that data will support.
- Item E.** Self-explanatory (to be filled in after contract award).
- Item F.** Self-explanatory (to be filled in after contract award).
- Item G.** Signature of preparer of CDRL.
- Item H.** Date CDRL was prepared.
- Item I.** Signature of CDRL approval authority.
- Item J.** Date CDRL was approved.
- Item 1.** See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2.** Enter title as it appears on data acquisition document cited in Item 4.
- Item 3.** Enter subtitle of data item for further definition of data item (optional entry).
- Item 4.** Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5.** Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- Item 6.** Enter technical office responsible for ensuring adequacy of the data item.
- Item 7.** Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8.** Specify requirement for approval of a draft before preparation of the final data item.
- Item 9.** For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).
- Item 10.** Specify number of times data items are to be delivered.
- Item 11.** Specify as-of date of data item, when applicable.
- Item 12.** Specify when first submittal is required.
- Item 13.** Specify when subsequent submittals are required, when applicable.
- Item 14.** Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15.** Enter total number of draft/final copies to be delivered.
- Item 16.** Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

FOR THE CONTRACTOR

Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.

a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data.

These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.



AIR FORCE RESEARCH LABORATORY
AMERICAN NATIONAL STANDARD INSTITUTE / NATIONAL
INFORMATION STANDARDS ORGANIZATION
(ANSI/NISO)
STANDARD Z39.18-2005
SCIENTIFIC AND TECHNICAL REPORTS-PREPARATION,
PRESENTATION AND PRESERVATION
FORMAT GUIDELINES

JUNE 2010

The United States Air Force uses ANSI NISO Z39.18 as a guide for all technical reports. AFRL uses this subset of the ANSI standard to highlight important guidance addressed in the ANSI standard as outlined below. Full component descriptions are available in the ANSI NISO Z39.18.

COMPONENTS OF A TECHNICAL REPORT

	POC	Inclusion Status
Front Matter – numbered sequentially with Roman numerals beginning with Table of Contents		
Cover or Title	Government WUM (Contractor has a placeholder version)	Required
Notice and Signature Page	Government WUM	Required
Notice to Accompany the Dissemination of Export-Controlled Technical Data	Government WUM	Required, if applicable
SF298, Report Documentation Page (Contains Abstract)	Report Author	Required
Table of Contents	Report Author	Required
List(s) of Figures and Tables	Report Author	Conditional (include when there are more than 5 figures and/or tables)
Foreword	Report Author	Optional
Preface	Report Author	Optional
Acknowledgements	Report Author	Optional

Body – numbered sequentially beginning with the Arabic numeral 1		
Summary	Report Author	Required
Introduction	Report Author	Required
Methods, Assumptions, and Procedures	Report Author	Required
Results and Discussion	Report Author	Required
Conclusions	Report Author	Required
Recommendations	Report Author	Conditional (include when purpose of report is to suggest a course of action)
References	Report Author	Conditional (use if references are provided)

Back Matter – numbering continues sequentially from body of report		
Appendices	Report Author	Conditional (Include when needed to supplement Results and Discussion)
Bibliography	Report Author	Conditional
List of Symbols, Abbreviations, and Acronyms	Report Author	Conditional (include if used in any other component of the report)
Glossary of Terminology	Report Author	Conditional (Include if report incorporates terms unfamiliar to the intended audience)

Index	Report Author	Optional
Distribution List	Report Author/Government WUM	Conditional (Some technology directorates control access)
Back Cover	Report Author	Required for classified reports only

FORMAT REQUIREMENTS:

1.0 TYPE (FONT) AND HEADS (CHAPTER TITLES)

The preferred type (font) is 12-point Times New Roman or Arial. The following is an example (format and spacing) of heads:

1.0	FIRST-ORDER HEAD IS ALL CAPS, FLUSH LEFT AND BOLDED
1.1	Second-Order Head is Bolded, Same Font Size as Text, Caps and Lower Case, Flush with Left Margin
	Insert one blank line between head and text then begin copy.
1.1.1	Third-Order Head is Flush Left, Boldface, Caps and Lower Case Letters, Followed by a Period. Then continue the copy.

2.0 SPACING

Final reports should be single spaced. It isn't necessary to double-space between paragraphs if the first line of each paragraph is indented.

3.0 MARGINS

Leave **one-inch left, right, and top margins**. *Page number should be centered and located one-half inch (1/2") from bottom of page.* This is accomplished in page setup, Margins - bottom - 1", Layout - Footer .7". Leave enough room at the bottom of each page to include applicable restrictive statements.

4.0 NUMBERING

Page numbers are centered at bottom of page. Figure numbers are centered **below** Figure, with caption centered either on the line below Figure number or on the same line as Figure number. Table numbers are centered **above** Table on the same line as Table caption, and Equations are numbered on right margin across from Equation.

Number Pages, Figures, Tables, and Equations sequentially, not by section.

5.0 PRESENTATION STYLES

5.1 All figures, tables, equations, and line drawings shall be crisp and easy to read. Figure letters and numbers (callouts) should be in at least an 8-point type (handwriting on figures is not acceptable). Figures and tables in the table of contents are numbered, worded, spelled and punctuated exactly as they are in the report.

5.2 Style for Equations:

$$E = mc^2 \quad (1)$$

$$\phi_{\text{det}} = L_e \times \Omega_{\text{det}} \times v_n(D, \hat{i}) \cdot \pi D^2 dD \quad (2)$$

5.3 Style for Figure Captions

Callouts (labels) should be in Upper and Lower case type, not all caps, bolded, no periods.

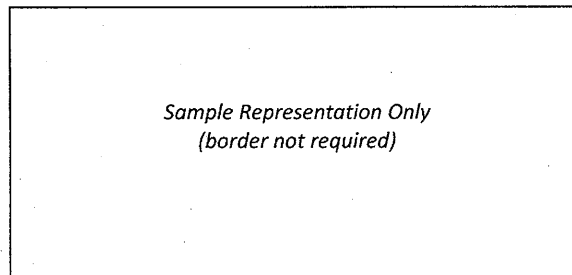
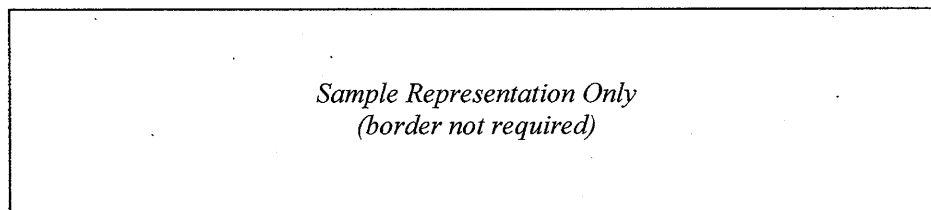


Figure 1. Figure Caption May be on Same Line as Figure Number

5.3.1 The figure caption describes the content without giving background information, results, or comments about the figure. Reference to Figures and Tables must appear in text before actual Figure or Table appears in report. Where possible, integrate Figures and Tables into text and place Figure/Table as soon after the first mention of it as possible, before beginning a new subject. There should be two blank lines between Figures or Tables and text.

5.4 Style for Table Captions (authors should use the style listed in para 5.3 above)

Table 1. Title Line and Number All in One Line, Centered or Flush Left, Bolded, (No Periods)



6.0 FRONT MATTER

The **Cover Page** is followed by the appropriate **Notice Page(s)**, after which is the **SF298**. Then there should be the three sections (with page numbers listed in lower-case Roman numerals, beginning with Roman numeral i), **Table of Contents**, followed by **List of Figures**, and **List of Tables**.

6.1 Instructions for Standard Form 298

Contractor/Author shall complete Blocks 1– 5b, 6-8, 12-15 of the SF 298 and submit per CDRL requirements.

6.2 Table of Contents

Start pagination of Table of Contents with lower-case Roman numeral i. Start listing contents that are in front matter, e.g. List of Figures, List of Tables, Foreword, Preface, then body of text, then back matter. Appendices should be numbered sequentially from the last page of the report. If there's only one Appendix, just call it an Appendix. Example (border not required):

TABLE OF CONTENTS		Page
Section		
List of Figures		iv
List of Tables		v
1.0 SUMMARY		1
2.0 INTRODUCTION		3
3.0 METHODS, ASSUMPTIONS, AND PROCEDURES.....		4
3.1 High Symmetry Hypervalent Structures (OF ₆)		7
3.2 Azide-like Structures		9
3.2.1 N(N ₃) ₃ , HN(N ₃) ₂ , N(N ₃) ₂ ⁻ and N(N ₃) ₄ ⁺		12
4.0 RESULTS AND DISCUSSION		15
5.0 CONCLUSIONS		35
6.0 REFERENCES		37
APPENDIX A - Publications and Presentations.....		40
APPENDIX B - Abstracts.....		51

LIST OF SYMBOLS, ABBREVIATIONS, AND ACRONYMS	59
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6.3 List of Figures

Continue pagination with lower-case Roman numerals. List all Figures found in text (not Figs. in Appendix, if any, those will be listed separately in front of the Appendix). Example (border not required):

LIST OF FIGURES	
Figure	Page
1 Overall View of Propulsion Vehicle.....	3
2 Motor Configuration.....	6
3 Apparatus Used to Make Nozzle Tubes.....	7

6.4 List of Tables

Continue pagination with lower-case Roman numerals. List all Tables found in text (not Tables in Appendix, if any, those will be listed separately in front of the Appendix). Example (border not required):

LIST OF TABLES	
Table	Page
1 Some of the Upper-Stage Propulsion Options.....	19
2 Results of Test Firing #1.....	25
3 Results of Test Firing #2.....	26

7.0 BODY

Next, start body of text with **Summary** and begin pagination with Page 1 (Arabic numerals). This may be accomplished by inserting a Section Break and start the pagination with 1. Follow with **Introduction, Methods, Assumptions, and Procedures, Results and Discussion, Conclusions**, then **References**, to be followed by the appropriate **Back Matter**.

7.1 References

References should be listed numerically, in the order they appear in the text. The Reference page should be at the end of the report (not at the end of each section).

For works that are generally referred to throughout the report, without citing specific references from the work, create a Bibliography (in alphabetical order). Personal communications, unpublished speeches, or any other information not available for reference by the reader should not be included in the References – footnote your citation instead. References must be available to readers of the report.

References are prepared according to the accepted practice of the discipline of the primary author/creator of the report. The examples below are a suggested format.

7.1.1 Papers / Journal Articles / Conference Presentations or Proceedings

Author's last name, then first

Titles of papers are in quotation marks

Journal names or Conference names are in *italics*

Volume is **bolded**

Date follows comma (not within parenthesis)

Page numbers (pp.) are last.

Examples:

Author(s), "Title of Article," *Journal Name (italics)*, **19**, 628, Jun 1993 pp. _-_.
Chidambaram, N., Dash, S., and Kenzakowski, D., "Scalar Variance Transport in the Turbulence Modeling of Propulsive Jets," *Journal of Propulsion and Power*, Vol. 17, No. 1, pp. 79-84, 2001.

Author(s), "Title of Article," Paper No. (if AIAA or CPIA paper, etc.), *Name of Conference*, Location, Date.

Chai, A.H., Cao, Z.T., Chen, H. P., "Monte Carlo Method Study of Terahertz Pulse Propagation in Biological Tissue," *Proceedings of the 2005 IEEE, EMBS 27th Annual Conference*, Shanghai China, (2005).

7.1.2 URLs The URL or other path information appears instead of the volume and number cited for a conventional journal. It is frequently useful to the reader to know the date when the material was accessed. In such cases, "Accessed [date]" would be appropriate wording.

Virillio, Paul, "Speed and Information: Cyberspace Alarm!" CTHEORY, URL:
<http://www.freedonia.com/ctheory/>, last modified September 19, 1995. Accessed November 17, 1999.

7.1.3 Technical Reports

Author's last name, then first

Titles of reports are in *italics*

Next is report number

Name and address of performing agency/organization

Date is last.

Example:

Author(s), *Title*, AFRL-PR-ED-TR-20XX-XXXX, Company, Inc., City, ST, Jan 2006.

Gaitonde, Datta, *Advances in High-Fidelity Multiphysics Simulation*, AFRL-RB-WP-TR-2008-3019, Wright-Patterson AFB: AFRL Air Vehicles Directorate, 2008.

Gaitonde, Datta, *Advances in High-Fidelity Multiphysics Simulation*, AFRL-RB-WP-TR-2008-3019; ADB123456, Wright-Patterson AFB: AFRL Air Vehicles Directorate, 2008.

7.1.4 Books

Author's last name, then first

Title of book can be **Bolded** or Underlined

Publisher's name and address

Date of publication

Page numbers last

Example:

Author(s), **Book Title**, Harper & Rowe, New York, NY, 1993, pp. 36-38, 77, 98-101.

Wylie, C.R., **Advanced Engineering Mathematics**, 7th ed, New York: McGraw-Hill, 2005.

8.0 BACK MATTER

Pagination continues from the body. Include conditional and optional back matter in the order listed in the components table on page 2: Appendices, Bibliography, List of Symbols, Abbreviations, and Acronyms, Glossary, Index, Distribution List, and Back Cover.

8.1 Appendices

If there is only one appendix, titled Appendix, all tables and figures in that appendix are prefixed with A-, the "A" representing the word, Appendix.

Each appendix should be referred to in the body text. Any references cited in an appendix must be listed as the last page of the appendix. Appendix page numbering is a sequential continuation of the Arabic text page numbering.

Number figures, tables, equations, and references in an appendix with the letter of the appendix, followed by a hyphen and a sequential number, starting at 1, e.g., Figure A-1. An Appendix Figure; Table A-1. An Appendix Table; and for reference citations, [A-1].

8.2 Symbols, Abbreviations and Acronyms

When first introduced in the report (title or text), completely write out abbreviations and acronyms, followed by the abbreviation or acronym in parentheses, and subsequently use only the acronym/abbreviation in the body text ; i.e. Small Business Innovation Research (SBIR).

Create an acronym list that lists and defines all acronyms and symbols that appear in your report. List all terms alphabetically, beginning with those starting with capital letters, followed by lower case (e.g., H₂, HEDM, hcp). Follow alphabetical entries with Greek or special symbols. Capitalize definitions only if they are proper names (e.g. Department of Defense).

Example (border not required):

LIST OF SYMBOLS, ABBREVIATIONS AND ACRONYMS	
CAT	computerized axial tomography
COMSAT	Communication Satellites
DMP-128	a Polaroid™ photopolymer
DoD	Department of Defense
dcg	dichromated gelatin
H ₂	hydrogen
HEDM	High Energy Density Matter
∇	angle of attack

The words “Figure,” “Reference,” and “Equation” should be written out in text, but abbreviated when used within parentheses. Months are abbreviated to three letters without punctuation (e.g., Jun, Jul, Aug). Units of measurement are abbreviated (e.g., 12 cm, 50 l, 20 lb, 1 atm, 30 sec, 200 psig) without punctuation – except for “in.” (inches), which may be followed by a period to distinguish it from the preposition – and are generally singular.

For a complete list of abbreviations, see Chapter 9 of the *GPO Style Manual*
<http://www.gpoaccess.gov/stylemanual/browse.html>.

9.0 INSTRUCTIONS FOR SUBMITTAL

Follow your Contract Data Requirements List (CDRL) for submission instructions. If your CDRL requires delivery of the final technical report on CD-ROM, ensure it is marked as follows:

CD-ROMs shall have the following items legibly printed on top of the disk:

1. Contract Number and Program Name.
2. CDRL numbers referenced and Title of Data Items.
3. Date.
4. Company Logo/ Nomenclature.
5. Distribution Statement, export control warning notice (when applicable).

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.

1. REPORT DATE (DD-MM-YYYY)		2. REPORT TYPE		3. DATES COVERED (From - To)	
4. TITLE AND SUBTITLE			5a. CONTRACT NUMBER		
			5b. GRANT NUMBER		
			5c. PROGRAM ELEMENT NUMBER		
			5d. PROJECT NUMBER		
6. AUTHOR(S)			5e. TASK NUMBER		
			5f. WORK UNIT NUMBER		
			8. PERFORMING ORGANIZATION REPORT NUMBER		
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)			10. SPONSOR/MONITOR'S ACRONYM(S)		
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)			11. SPONSOR/MONITOR'S REPORT NUMBER(S)		
			12. DISTRIBUTION/AVAILABILITY STATEMENT		
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT	b. ABSTRACT	c. THIS PAGE			19b. TELEPHONE NUMBER (Include area code)

INSTRUCTIONS FOR COMPLETING SF 298

1. REPORT DATE. Full publication date, including day, month, if available. Must cite at least the year and be Year 2000 compliant, e.g. 30-06-1998; xx-06-1998; xx-xx-1998.

2. REPORT TYPE. State the type of report, such as final, technical, interim, memorandum, master's thesis, progress, quarterly, research, special, group study, etc.

3. DATES COVERED. Indicate the time during which the work was performed and the report was written, e.g., Jun 1997 - Jun 1998; 1-10 Jun 1996; May - Nov 1998; Nov 1998.

4. TITLE. Enter title and subtitle with volume number and part number, if applicable. On classified documents, enter the title classification in parentheses.

5a. CONTRACT NUMBER. Enter all contract numbers as they appear in the report, e.g. F33615-86-C-5169.

5b. GRANT NUMBER. Enter all grant numbers as they appear in the report, e.g. AFOSR-82-1234.

5c. PROGRAM ELEMENT NUMBER. Enter all program element numbers as they appear in the report, e.g. 61101A.

5d. PROJECT NUMBER. Enter all project numbers as they appear in the report, e.g. 1F665702D1257; ILIR.

5e. TASK NUMBER. Enter all task numbers as they appear in the report, e.g. 05; RF0330201; T4112.

5f. WORK UNIT NUMBER. Enter all work unit numbers as they appear in the report, e.g. 001; AFAPL30480105.

6. AUTHOR(S). Enter name(s) of person(s) responsible for writing the report, performing the research, or credited with the content of the report. The form of entry is the last name, first name, middle initial, and additional qualifiers separated by commas, e.g. Smith, Richard, J, Jr.

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES). Self-explanatory.

8. PERFORMING ORGANIZATION REPORT NUMBER. Enter all unique alphanumeric report numbers assigned by the performing organization, e.g. BRL-1234; AFWL-TR-85-4017-Vol-21-PT-2.

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES). Enter the name and address of the organization(s) financially responsible for and monitoring the work.

10. SPONSOR/MONITOR'S ACRONYM(S). Enter, if available, e.g. BRL, ARDEC, NADC.

11. SPONSOR/MONITOR'S REPORT NUMBER(S). Enter report number as assigned by the sponsoring/monitoring agency, if available, e.g. BRL-TR-829; -215.

12. DISTRIBUTION/AVAILABILITY STATEMENT. Use agency-mandated availability statements to indicate the public availability or distribution limitations of the report. If additional limitations/ restrictions or special markings are indicated, follow agency authorization procedures, e.g. RD/FRD, PROPIN, ITAR, etc. Include copyright information.

13. SUPPLEMENTARY NOTES. Enter information not included elsewhere such as: prepared in cooperation with; translation of; report supersedes; old edition number, etc.

14. ABSTRACT. A brief (approximately 200 words) factual summary of the most significant information.

15. SUBJECT TERMS. Key words or phrases identifying major concepts in the report.

16. SECURITY CLASSIFICATION. Enter security classification in accordance with security classification regulations, e.g. U, C, S, etc. If this form contains classified information, stamp classification level on the top and bottom of this page.

17. LIMITATION OF ABSTRACT. This block must be completed to assign a distribution limitation to the abstract. Enter UU (Unclassified Unlimited) or SAR (Same as Report). An entry in this block is necessary if the abstract is to be limited.

ALL PURPOSE CHECKLIST

TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA AFRL QUALITY FINAL TECHNICAL REPORT (TR)		OPR AFRL/CSC		
No.	ITEM (Assign a paragraph number to each item. Draw a horizontal line between each major paragraph)	Author (Y/N/NA)	WU MGR (Y/N/NA)	STINFO (Y/N/NA)
	Contract No. or Local Identifier:			
1.	Is the TR a comprehensive description of the research and NOT just a journal article, briefing charts, collection of status reports, restatement of the statement of work, or a duplicated report submitted for another work unit?			
2.	Does the TR contain the required elements of a scientific report per AFRL ANSI/NISO Standard Z39.18 -2005 (this includes methods, assumptions, procedures, results and discussion, conclusions, recommendations, and references)?			
3.	Is the TR logically organized and developed in one file/one format (PER CDRL)?			
4.	Is the writing clear and concise, accurately depicting all the data (positive and negative) and does the TR contain all the necessary information to duplicate the research, if necessary?			
5.	Are all parties responsible for the data properly acknowledged for their contribution?			
6.	Are all classified data properly marked and are markings properly placed (i.e., pages marked with highest classification, top/bottom, paragraphs marked, etc.)?			
7.	Are data rights content properly identified (portion marked, etc.) throughout the report per assertions rights at contract award?			
8.	Is data that is delivered with less-than-unlimited rights contained only in an appropriately marked appendix to the final report (except for contracts awarded under the SBIR or STTR program)? Is there a waiver to this requirement with written approval from the Technical Director?			
9.	Are all formulas and equations clearly presented?			
10.	Are all technical terms defined in a glossary and are all acronyms, abbreviations, and symbols properly defined (if needed)?			
11.	Are all references that are cited in the text listed with a full citation in the references list?			
12.	Are there any supporting documents that need to be appended to the TR?			
13.	Have there been any meetings with the Government in which notes were taken regarding the TR, has the author reviewed the notes to ensure that all requirements have been addressed?			
14.	Is there a signed notice page that indicates correct data rights per the data rights section of the contract?			
15.	Are specific pages and/or sections marked in the "location of data rights" within the data rights legend?			
16.	Have all appendices been identified and included in the TR?			
17.	Is the SF 298, <i>Report Documentation Page</i> , properly completed?			
18.	Has a distribution statement and export control been addressed?			
19.	Does the distribution statement reflect the appropriate reason(s) and audience for the TR content?			

COMMENTS (if additional space is needed, enter comments on back of form)

AUTHOR:(print) _____ Signature _____ Date _____

WU MGR:(print) _____ Signature _____ Date _____

STINFO:(print) _____ Signature _____ Date _____



**AFRL Form 25, Nov 08 (Incorporating Administrative Changes, Apr 10)
Prescribing Directive, AFRLI 61-204**

PREVIOUS EDITIONS OBSOLETE

STATEMENT OF WORK FOR BASIC CONTRACT

Basic Contract SOW – Directed Energy Bio-Mechanisms

1.0 BACKGROUND, SCOPE, GOALS, OBJECTIVES, AND NEEDS.

1.1 Background. The Directed Energy Bioeffects Research (DEBR) contract supports the US Air Force, one of the largest developers and users of radio frequency (RF) and high power microwave (HPM) emitting devices in the world, which has been at the forefront of research on the biological effects of RF/HPM radiation for more than 30 years. The use of Directed Energy (DE) extends to military and commercial applications. While the targeted customers for this effort are primarily concerned with the use and application of RF/HPM radiation technologies, the joint services and others like the Department of Homeland Security along with commercial customers will likely benefit from the research conducted and discoveries made under this program.

Specifically, the DEBR contract aids in the mission accomplishment of the Radio Frequency Bioeffects Branch (711 HPW/RHDR) part of the Bioeffects Division (711 HPW/RHD) to protect Air Force personnel from RF/HPM radiation hazards, while minimizing negative operational impact. This will be conducted as part of an extensive research program in the dosimetry and bioeffects of RF/HPM radiation. Research results will be transitioned and transferred to national and international health and safety standards, which will be used by the Air Force Surgeon General for Occupational Health and Environmental Safety, as well as for data to support the rapid development and deployment of DE technologies. The advent of HPM and ultra-wide band for directed energy weapons (DEW) make this effort supporting 711 HPW/RHDR's products and services ever more essential to national security.

1.2 Goals. The goal of the Air Force Research Laboratory (AFRL) and this contract is to provide the USAF with the world's best RF/HPM radiation bioeffects research and science-based exposure standards, allowing maximum safe exploitation of DE for the national defense. Using joint-service cooperation, this contract shall help bring broad expertise, advocacy, and involvement in RF/HPM technologies.

1.3 Scope. The scope of this effort shall cover conducting bioeffects research on DE and kinetic energy systems to assist in transitioning DoD technologies. Research efforts shall include the following technical areas: directed energy weapon effectiveness and safety, directed energy bio-mechanisms, radiofrequency bioeffects modeling and simulation, and human effectiveness analysis and integration.

1.4 Objectives. This effort shall include conducting research to identify the benefits, risks, and capabilities for a wide range of military RF/HPM radiation systems. This shall include prediction and mitigation of the bio-effects of DE on personnel and mission performance and exploitation of the bio-effects of DE for DEW applications. Specifically, these Technology Areas (TAs) and objectives shall be broken into the following:

1.4.1 Directed Energy Bio-Mechanisms. 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. Investigate basic mechanism(s) of interactions between biology and RF radiation (DC-THz). 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.

1.4.2 Directed Energy Weapon Effectiveness and Safety. Conduct biological effects research in support of the development and deployment of future DE weapons and other emerging technologies that shall be beneficial to the Air Force and the warfighter. The research shall provide data to aid in the development of tactics, training, and procedures for the safe and optimal use of DE weapons. Research shall provide data that evaluates and supports the DE system effectiveness, its policy acceptability, and optimal use. The research shall lead to a better understanding of the bioeffects of DE weapons, as well as methods to counter the bioeffects produced by these technologies. This research shall characterize behavioral and physiological responses of individuals in response to high average power and high peak power directed energy systems.

1.4.3 Modeling and Simulation of Radio Frequency Bioeffects. Conduct mathematical, statistical, and theoretical analyses necessary for the development of modeling and simulation products. These models

shall lead to capabilities that include predictive and decision-making software that allow futuristic views of the bioeffects from exposure to RF/HPM radiation. The development and execution of modeling and simulation of electrical current, DE weapons, and radar and communication effects shall aid in the understanding of effects on and within biological systems.

1.4.4 Human Effectiveness Analysis and Integration. Develop an understanding of the bioeffects associated with exposing humans to counter-personnel, non-lethal weapons is essential for legal, treat, policy, and material development purposes. Without it, escalation of force options cannot be provided to war fighters. The objective of this effort shall provide Human Effects data and information that is necessary to characterize devices and technologies intended for this purpose. In order to accomplish these objectives it is essential to conduct laboratory and field experiments necessary to understand a variety of human effects responses across a wide taxonomy of technologies. These shall include directed energy, riot control agents, broadband light, acoustic sounds, and blunt impact materials. Another objective shall apply that scientific information by engineering optimal effects-based design parameters for non-lethal weapons. Additionally, this effort will provide Integrated Product Teams with engineering data necessary to not only design devices, but to evaluate and test prototypes during material development phases of the DoD acquisition process.

1.4.5 Health and Safety. Shall provide substantial value to the Air Force and scientific community by evaluating bioeffects of DE exposure. Shall address the physical and cognitive health and safety concerns of DE systems. Data obtained from RF/HPM radiation bioeffects research shall be designed in this technical area to support national and international health and safety standards.

1.5 Needs. This effort shall provide the means to protect personnel from RF radiation exposure hazards, and assess weapons application of RF/HPM radiation, by meeting the military needs to push the state-of-the art in science. The contract effort shall do so by evaluating the bioeffects of DE systems. All this shall be accomplished while addressing the health and safety concerns of the Air Force. These outcomes shall help to enable the maximum safe exploitation of the RF/HPM electromagnetic spectrum for national defense.

2.0 SPECIFIC TECHNICAL REQUIREMENTS.

2.1. Data Collections. Conduct data collection activities, as necessary and determined by Air Force and user requirements. This shall include as necessary developing research plans, experimental plans, human use protocols, and animal use protocols for all data collections. Preparation for data collection shall require as necessary pilot studies and setup of a panel of readily available subjects. The contractor shall collect pre-experimental data to assure that the facilities for specific data collections are available and functioning.

2.2. Data Analysis. The contractor shall conduct appropriate descriptive and inferential statistical analyses using experimental data. The contractor shall represent statistical analyses using graphical, pictorial, and tabular summaries.

2.3. Modeling and Simulation. Perform modeling and simulation to support understanding of subsystem and system technologies and guide technical efforts.

2.4. Developmental Research. The contractor shall develop hardware and software (in the form of prototypes, conceptual demonstrations, models, and simulations) as necessary to accomplish specific research.

2.5. Research Laboratories and Research, Development, Test, and Evaluation (RDT&E) Network.

As required by the research programs, the contractor shall provide all engineering and related efforts necessary to effect and document changes to laboratory facilities or to integrate new and unique components which will enhance research goals, improve equipment reliability, increase productivity, enhance flexibility, or improve fidelity. The contractor shall provide the capability for machining and fabricating research articles, to include, but not be limited to, prototypes, fixtures, mounting brackets, and the like. The contractor shall ensure operation of RDT&E networks, including hardware fault determination and repair, software development and updates, training in system usage, engineering development, installation of enhancements and upgrades, and system software configuration.

2.6. Systems Integration. The contractor shall perform systems integration of software and hardware components as necessary to validate requirements for advanced technology demonstrations.

2.7. Management of Effort. The contractor shall manage technical, schedule and cost satisfaction of the task order; plan, prepare, conduct, and document reviews; track CDRL satisfaction; and interface with the

customer to assess performance satisfaction and re-plan the project as needed. Contractor shall comply with all applicable human use and animal use regulations.

3.0 DELIVERABLES.

3.1. Data.

3.2. Hardware.

3.3. Software.

4.0 OTHER REQUIREMENTS.

4.1. Individual Security Clearances. IAW DD254. The Contractor shall maintain a U.S. security clearance up to a maximum of Top Secret SCI as required by individual task orders for all contractor personnel required to have access to classified information. Onsite contractor personnel must have an active clearance prior to reporting for duty in performance of any task order issued. Interim clearances for newly hired personnel shall be processed as expeditiously as possible since some contractor personnel will be required to use the SIPRNET and process classified materials; however this will be on a case-by-case basis. Such clearance must be obtained through the Defense Investigative Services. Contractor personnel who already have approved security clearances are highly preferred. The contractor shall be required to wear contractor identification badges and maintain currency in all Privacy Act Laws.

4.2. Position of Trust. All contractor personnel require a minimum of a National Agency Check with written Inquires (NACI)/SF85 for any position that requires access to the internet, use of automated systems or unescorted entry into restricted or controlled areas prior to reporting for duty in performance of any task order. The investigation is not for a security clearance; it is for a position of trust. This is a mandatory requirement set forth in DoD5200.1-R and AFI 31-50 I Information Security. All documentation required for security certification shall be the responsibility of the contractor. No foreign nationals shall be employed for any task order issued under this contract without prior approval of the Government.

4.3. Operations Security (OPSEC). The contractor shall provide OPSEC protection for all sensitive/critical information as defined by AFI 10-701 (Operations Security), the 711 HPW OPSEC Plan, and critical information list. The contractor shall participate in the 711 HPW sustained OPSEC awareness

training or include OPSEC training as part of their on-going security program. The 711 IIPW OPSEC coordinator will evaluate the OPSEC posture of AF contract activities and operations.

4.4. Information Security and Force Protection. The contractor shall provide Information Security and Force Protection training as defined by AFI31-401 (Information Security Program Management) and AFII0-245 (Air Force Antiterrorism Standards). The contractor shall participate in the 711 HPW sustained information Security and Force Protection/Antiterrorism training or include this training as part of their on-going security program. The 711HPW Security Managers will evaluate the training posture of AF contract activities and operations. This requirement is set forth in AFI 31-401, AFI 10-245 and applicable AFMC and local supplements.

5.0 OTHER INFORMATION.

5.1. Hazardous Waste. The contractor shall use hazardous materials in research studies under this effort. Contractors shall be required to complete Fort Sam Houston, TX hazardous materials training. The government shall be responsible for disposing all Laboratory HazWaste.

5.2. 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 be complying with the provisions of the following directives/regulations:

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

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

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

5.2.4. 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).

5.2.5. 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 for any applicable task order effort.

The contractor shall be required to establish a Federal Wide Assurance (FWA), for the Protection of Human Subjects.

5.3. Animal Use.

5.3.1. 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.

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

5.3.3. 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

5.3.4. 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 for any applicable task order effort.

5.4. Base Support/Network Access will be provided at JBSA Ft Sam Houston TX for the performance of this effort.

5.5 Contract Holidays

The following days are contract holidays:

- New Year's Day
- Birthday of Martin Luther King
- Presidents Day
- Memorial Day
- Independence Day 4th of July Holiday

Labor Day
Columbus Day
Veterans Day
Thanksgiving Day
Christmas Day

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 TOP SECRET	
				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, Basic		<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>(Completes 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 5100 Springfield Pike, Suite 509 Dayton, OH 45431-1264			b. CAGE CODE 0GR87	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> Defense Security Service (IOFND) 17177 N. Laurel Park Dr., Suite 417 Livonia, MI 48152-7755	
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 TBD			b. CAGE CODE N/A	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> TBD	
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT The goal of this effort includes conducting research to identify the benefits, risks, & capabilities for a wide range of military RF/HPM radiation systems. To predict & mitigate the bioeffects of directed energy on personnel & mission performance, & to exploit the bioeffects of directed energy (DE) for DE weapons applications. In order to protect personnel from RF radiation exposure hazards, & assess weapons application of RF/HPM radiation, the military needs to push the state-of-the-art in science by evaluating the bioeffects of DE systems. While addressing health & safety concerns. This will help to enable the maximum safe exploitation of the RF/HPM electromagnetic spectrum for national defense.					
10. CONTRACTOR WILL REQUIRE ACCESS TO:					
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION	YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:		
b. RESTRICTED DATA		<input checked="" type="checkbox"/>	a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	YES	<input checked="" type="checkbox"/>
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		<input checked="" type="checkbox"/>	b. RECEIVE CLASSIFIED DOCUMENTS ONLY		<input checked="" type="checkbox"/>
d. FORMERLY RESTRICTED DATA		<input checked="" type="checkbox"/>	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		<input checked="" type="checkbox"/>
e. INTELLIGENCE INFORMATION		<input checked="" type="checkbox"/>	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		<input checked="" type="checkbox"/>
(1) Sensitive Compartmented Information (SCI)	<input checked="" type="checkbox"/>		e. PERFORM SERVICES ONLY		<input checked="" type="checkbox"/>
(2) Non-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"/>
f. SPECIAL ACCESS INFORMATION	<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"/>	
g. NATO INFORMATION	<input checked="" type="checkbox"/>		h. REQUIRE A COMSEC ACCOUNT		<input checked="" type="checkbox"/>
h. FOREIGN GOVERNMENT INFORMATION	<input checked="" type="checkbox"/>		i. HAVE TEMPEST REQUIREMENTS		<input checked="" type="checkbox"/>
i. LIMITED DISSEMINATION INFORMATION		<input checked="" type="checkbox"/>	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	<input checked="" type="checkbox"/>	
j. FOR OFFICIAL USE ONLY INFORMATION	<input checked="" type="checkbox"/>		k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		<input checked="" type="checkbox"/>
k. OTHER <i>(Specify)</i>		<input checked="" type="checkbox"/>	l. 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.
 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.

Program Manager: [redacted] 711 HPW/RHDR, 4141 Petroleum Drive, Fort Sam Houston, TX 78234, (210)539-7950
 Signature: [redacted] Date: 14 Aug 13
 Chief of Security: [redacted] 711 HPW/OMS, 4141 Petroleum Drive, Fort Sam Houston, TX 78234, (210)539-7001
 Signature: [redacted] Date: 14 Aug 13
 Servicing IP: [redacted] 502 ABW/IP, 2080 Wilson Way, Fort Sam Houston, TX 78234, (210)808-1066
 Signature: [redacted] Date: 15 Aug 13
 Servicing SSO: [redacted] 21 IS/INS, 2450 D Street, Wright Patterson AFB, TX 45433, (937)255-0431
 Signature: See Email at FT 34 Date:

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 [redacted]	b. TITLE CONTRACTING OFFICER	c. TELEPHONE (Include Area Code) (937) 255-8958
d. ADDRESS (Include Zip Code) AFRL/RQKHA 2310 8th STREET (BLDG 167) WPAFB OH 45433-7801		17. REQUIRED DISTRIBUTION <input checked="" type="checkbox"/> a. CONTRACTOR <input checked="" type="checkbox"/> b. SUBCONTRACTOR <input checked="" type="checkbox"/> c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR <input checked="" 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
[redacted]		
[redacted]		
[redacted]		
[redacted]		

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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: Ms. [REDACTED] 502d ABW/IP, 2080 Wilson Way, Fort Sam Houston, TX 78234, (210) 808-1066

Program Manager: Mr. [REDACTED] 711 HPW/RHDR, 4141 Petroleum Drive, Fort Sam Houston, TX 78234, (210)539-7950

Servicing SSO: Ms. [REDACTED] 21 IS/INS, SSO WPAFB, 2450 D Street, Wright Patterson AFB, TX 45433, (937)255-0431

Chief of Security: Mr. [REDACTED] 711 HPW/OMS, 4141 Petroleum Drive, Fort Sam Houston, TX 78234, (210)539-7001

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, 4141 Petroleum Drive, Fort Sam Houston, TX & 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 Bldg 3260, JBSA Ft Sam Houston, TX. 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, 2275 D St, WPAFB OH 45433

Ref Blk 17f (DISTRIBUTION):

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502d ABW/IP, 2080 Wilson Way, Fort Sam Houston, 78234, [REDACTED].civ@mail.mil

88 ABW/IPD, 1801 10th St, WPAFB OH 45433-7625, 88ABW.IPD.Industrial.security@wpafb.af.mil

AFRL: Ms. [REDACTED], AFRL/RYOY, 2241 Avionics Circle, WPAFB OH 45433-7301, ([REDACTED]@us.af.mil),

21 IS/INS, SSO WPAFB (wpabfspecialsecurityoffice.mailbox@us.af.mil)

711 HPW/OMS, 4141 Petroleum Road, JBSA Fort Sam Houston TX 78234, [REDACTED]47@us.af.mil

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.

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 8 OL-B

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): Mr. [REDACTED], 711 HPW/OMS, (210) 539-7001

Program Security Officer (PSO): M. [REDACTED], AFOSI PJ Det 8 OL-B, (210) 925-9682

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), Special Agent (SA) M. [REDACTED], (210) 925-9682.

Blk 15 Cont'd:

Ref Blk 10f & 111: 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 502d ABW/IP for non-SAR performance, and by AFOSI Office of Special Projects (PJ) for SAR performance.

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ADDENDUM TO DD FORM 254 (Block 10e (1)) - Effective date: 7 Aug 2013
SENSITIVE COMPARTMENTED INFORMATION (SCI) CLAUSES

1. **Reference Block 14:** The National Security Act of 1947, as amended; Executive Order (EO) 12333, as amended; EO 13526; EO 13549; EO 12829; EO 12968, as amended; 32 CFR Part 2001; 32 CFR Part 2003, 32 CFR Part 2004; and other applicable provisions of law; DoD Manual 5105.21, Volumes 1 -3, dated 19 Oct 12; AFMAN 14-304; ICD 701, ICD 702, ICD 703, 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, as amended; 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.

2. SCI will not be released to contractor employees without the specific release approval by the originator of the material as outlined in the governing directives and based on prior approval and certification of "need-to-know" by the Contracting Officer's Representative (COR):

711 HPW/RHDR **210-539-7950 DSN 389-7950**

3. Names of contractor personnel requiring access to SCI and justification for SCI billets will be submitted for coordination and action to **21 IS/INS, SSO WPAFB** after the contract monitor approval/concurrence. Upon receipt of written approval from the COR, the Contractor Special Security Officer (CSSO) may submit the necessary forms to Defense Security Service (DSS) for a Single Scope Background Investigation (SSBI) for those personnel nominated for SCI access in accordance with the National Industrial Security Program Operating Manual (NISPOM).

4. This contract will require **3** SCI billets in order to fulfill contractual obligations incurred. SCI access is subject to US Government review and approval as outlined in the aforementioned SCI security regulations. Upon completion or cancellation of the contract, the CSSO will debrief all personnel not required for contract closeout and those billets will be disestablished.

5. The CSSO must restrict access to only those individuals who possess the necessary security clearance and who are actually providing services under the contract. Further dissemination to other contractors, sub-contractors, other government agencies, private individuals or organizations is prohibited unless authorized in writing by the releasing agency.

6. SCI materials furnished in support of this contract remain the property of the DoD department or command that released it. Upon completion or cancellation of the contract, all SCI materials furnished will be returned to the direct custody of the originator of the materials.

7. Classified foreign intelligence materials must not be released to foreign nationals or immigrant aliens whether or not they are also consultants, US contractors, or employees of the contractor, regardless of the level of their security clearance, except with advanced written permission from the originator.

8. Inquiries pertaining to classification guidance on SCI will be directed to the COR listed in para 2 above. SCI security management issues shall be directed to SSO, **21 IS/INS, SSO WPAFB**, phone (937) 255-0431, DSN prefix 785.

9. (FOUO) An SCI Facility (SCIF) meeting the physical security requirements outlined in ICD 705 must be either used for contract work or established and maintained at the contractor location. All SCI used for this contract shall be stored, handled, and maintained in a SCIF, be it the local contractor SCIF or similarly SCI-accredited facilities used by the contractor. Address of SCIF for contract execution:

- a. **711 HPW/OMS, 414 Petroleum Road, Bldg 3260, JBSA Ft Sam Houston, TX, 78234.**
- b. **AF-08-066.**
- c. **210-539-7001, 711 HPW/OMS SSR**

10. For contract work within a contractor established SCIF, information systems (computers), electronic connectivity, and similar electronic methods of storing and communicating within and outside the SCIF must be in compliance with DCID 6/3, DIAM 50-4, the JDCSISSS, and any additional instructions issued by Defense Intelligence Agency (DIA)/DAC-2A, **21 IS/INS, SSO WPAFB**.

11. The CSSO must maintain accountability for all classified foreign intelligence materials released to their custody.

12. The CSSO must not reproduce classified foreign intelligence without advance approval of the releasing agency. If permission is granted, each copy will be controlled in the same manner as the original. The CSSO must not destroy any classified foreign intelligence without advance approval of the releasing agency.

13. **Reference Block 15:** This contract requires access to SCI. If the contractor has established a SCIF, the DIA and its designees are responsible for all inspections of the contractor SCIF and SCI security management program for ensuring compliance with all SCI security regulations and policies.

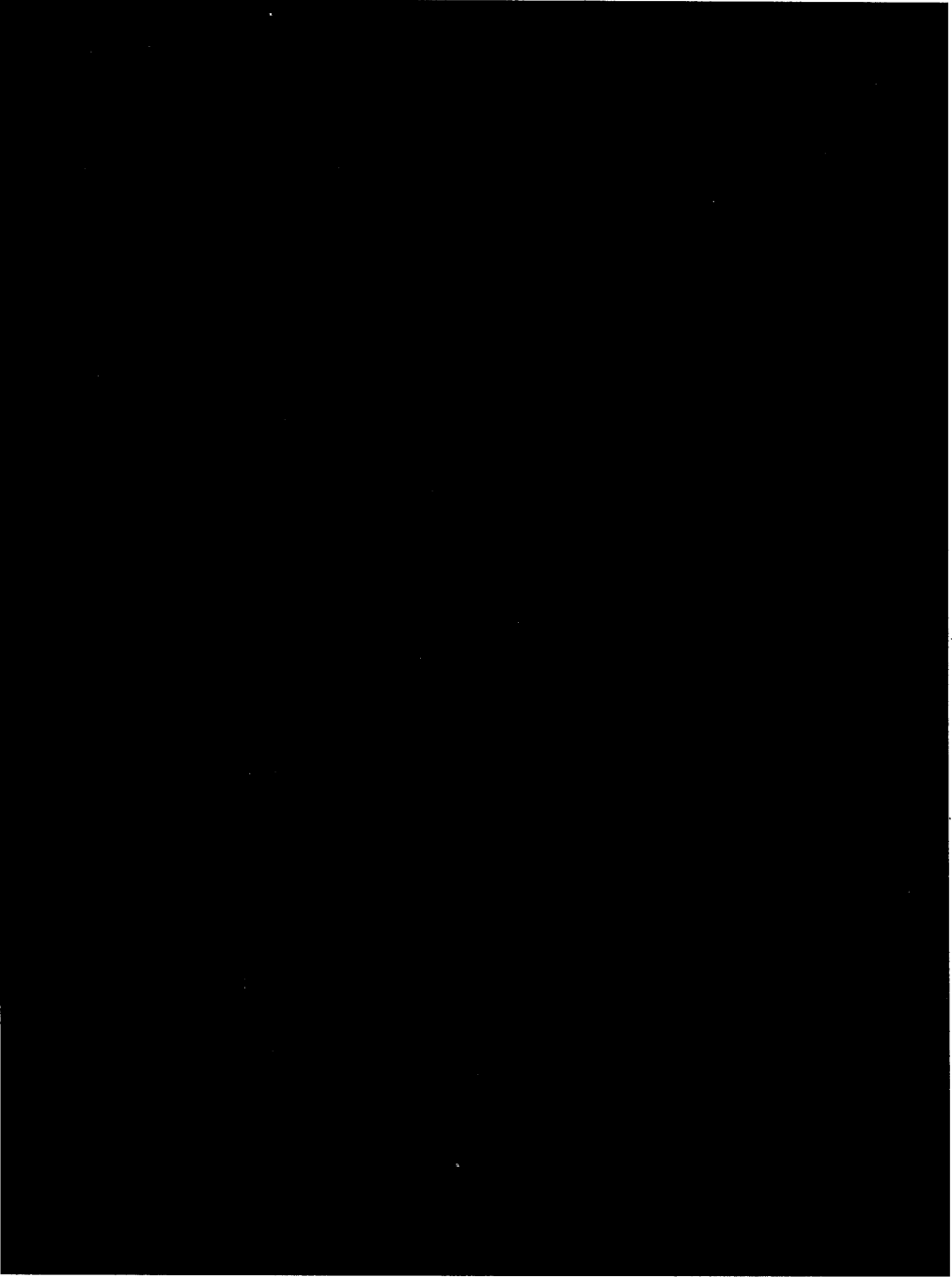
14. The estimated completion date for this contract effort is: **15 March 2020**

FOR OFFICIAL USE ONLY

This document contains information exempt from mandatory disclosure under the FOIA. Exemption 2 Applies.

6

DEBR HAZARDOUS MATERIALS LISTING ON FA8650-13-D-6368, SECTION J, ATCH 3, DATED 18 JUL 13



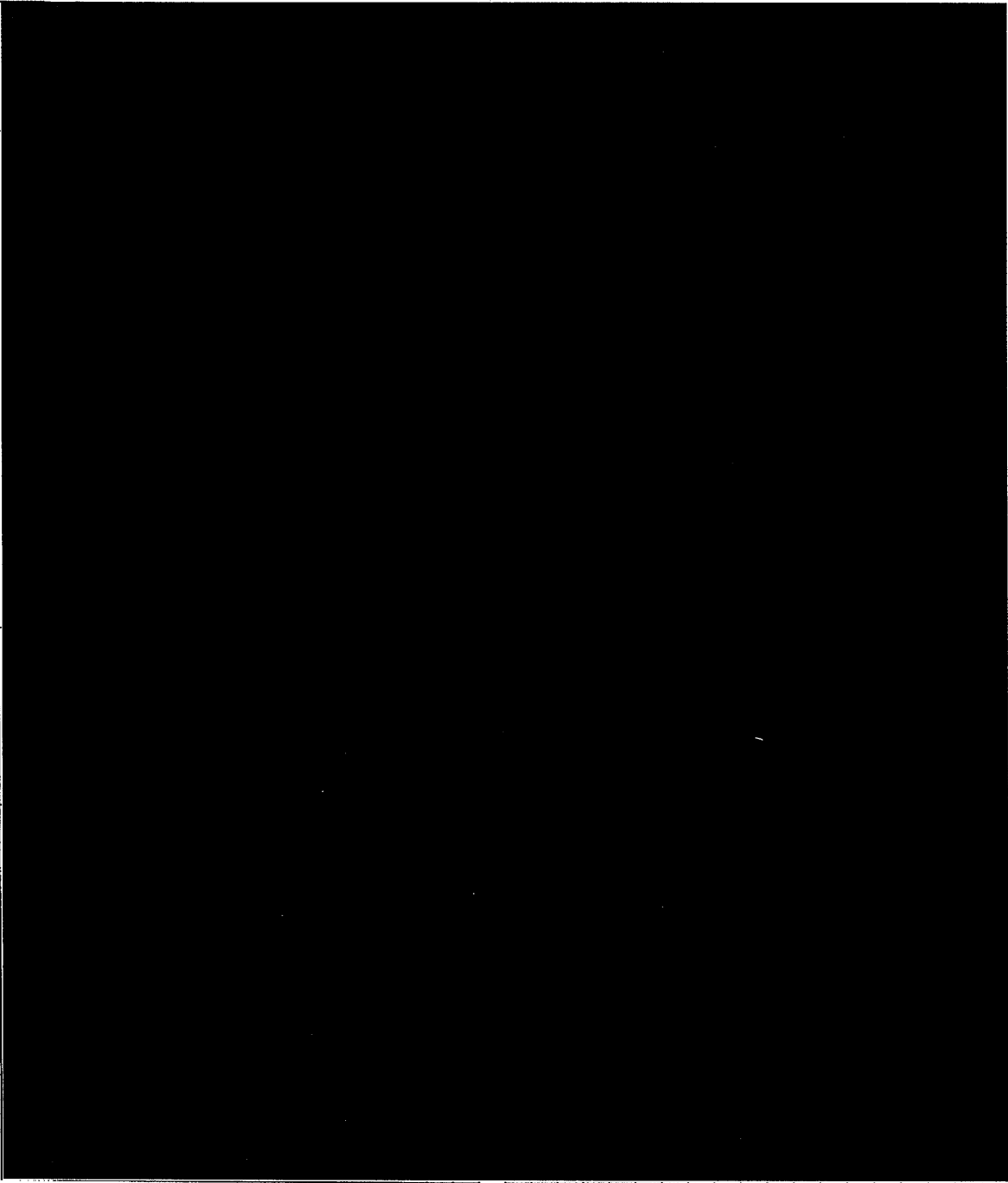
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FA8650-13-D-6368 ATCH 3, SECTION J

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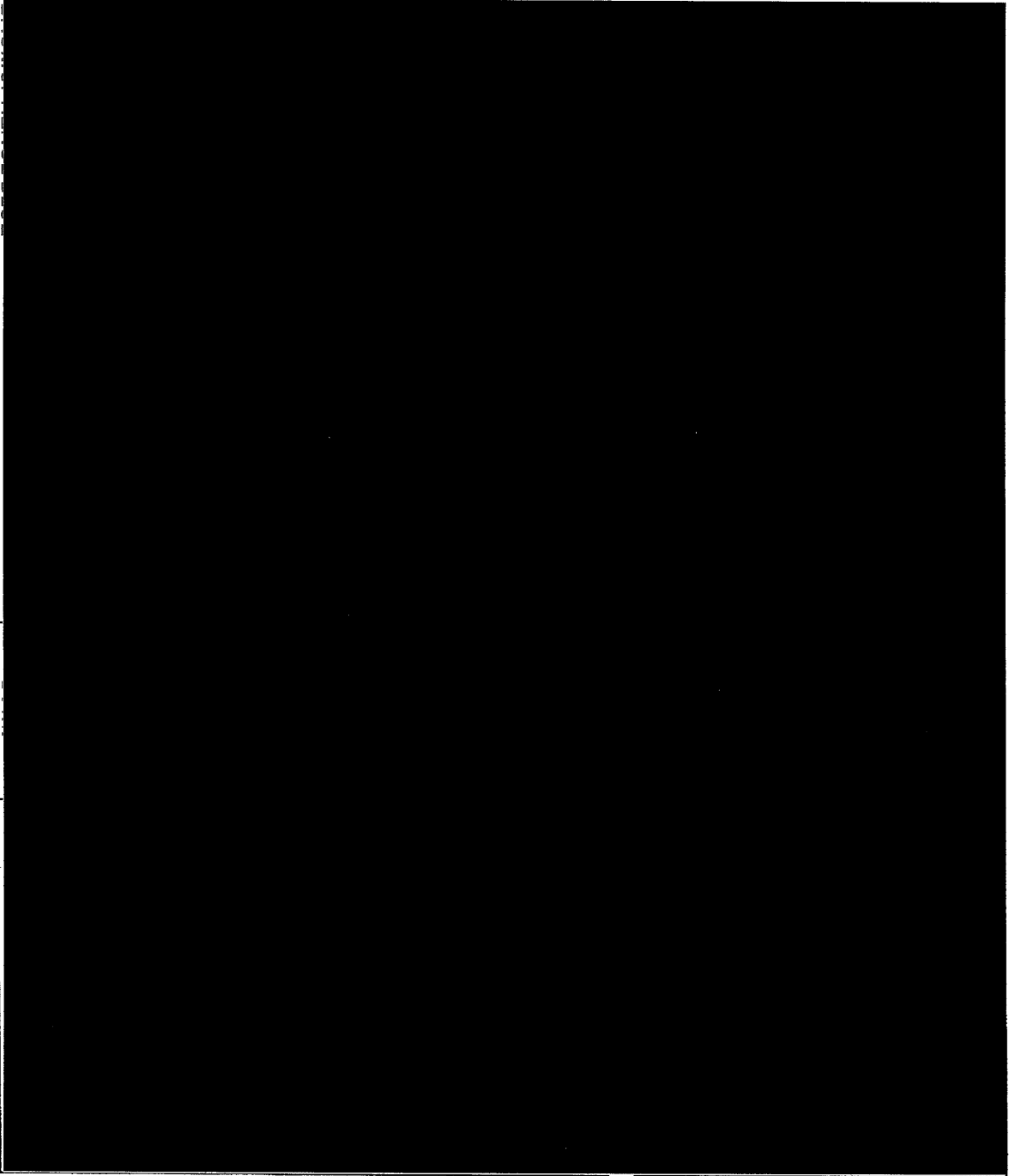
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FA8650-13-D-6368 ATCH 3, SECTION J

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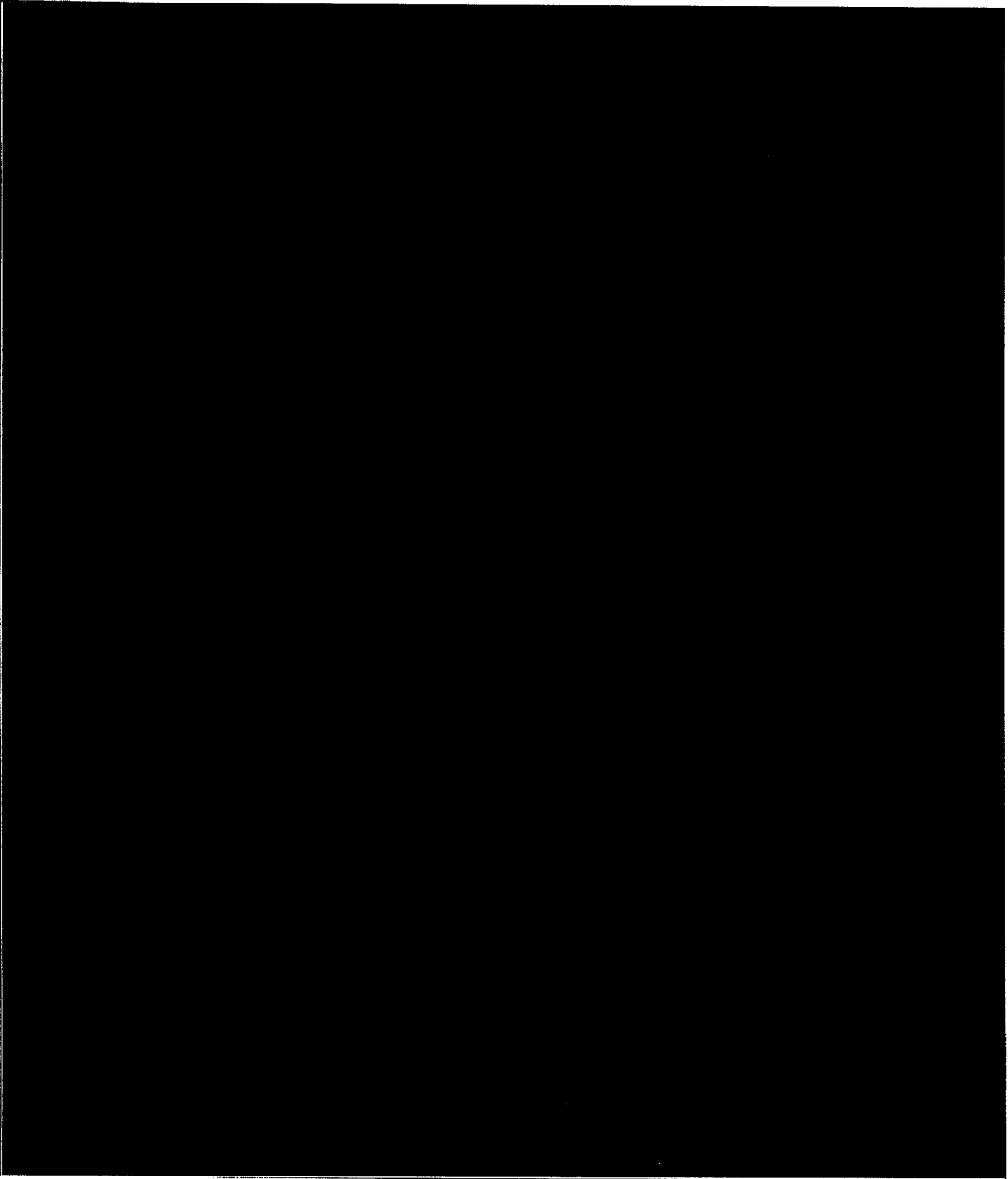
pg 3



FA8650-13-D-6368 ATCH 3, SECTION J

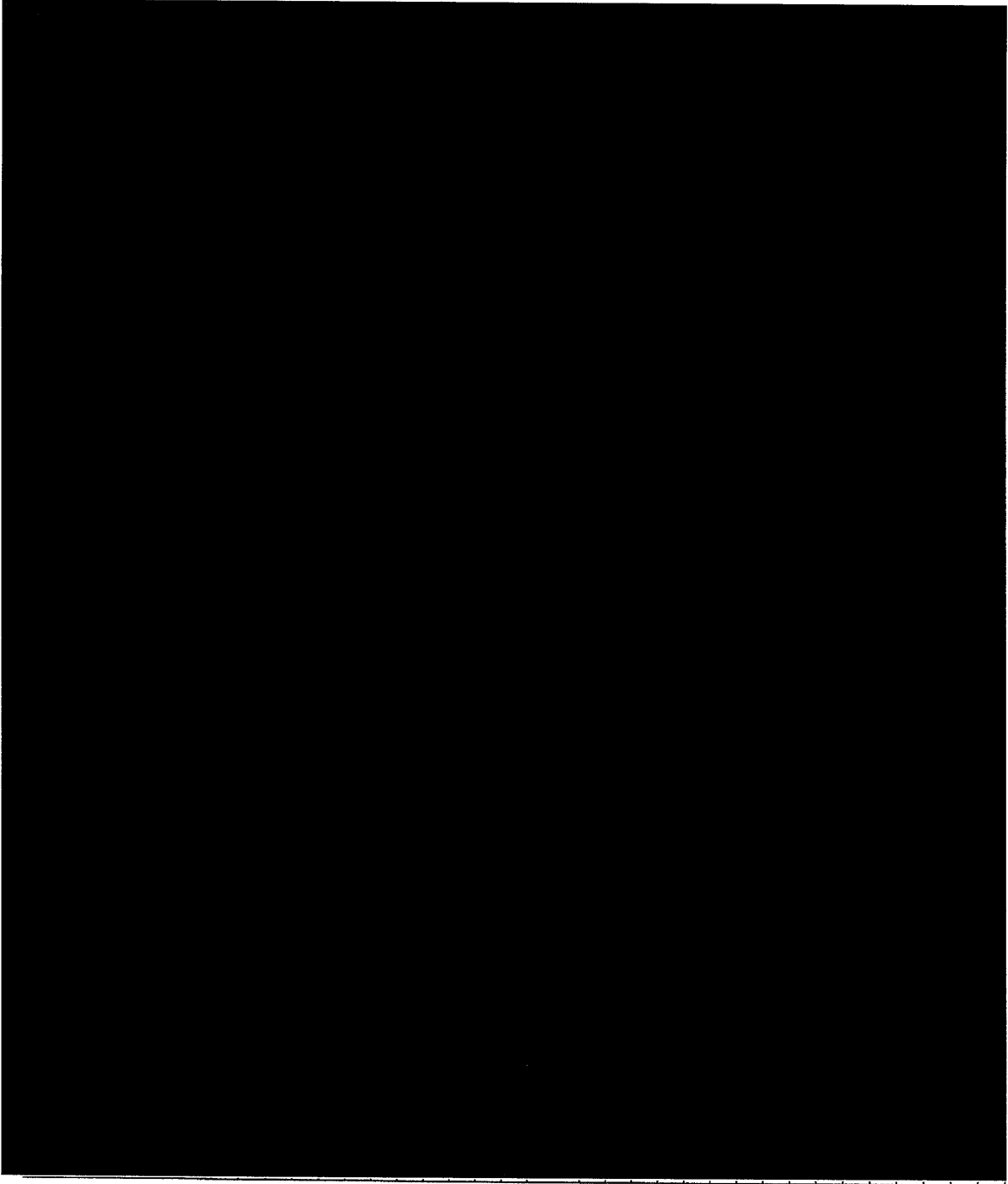
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pg 4



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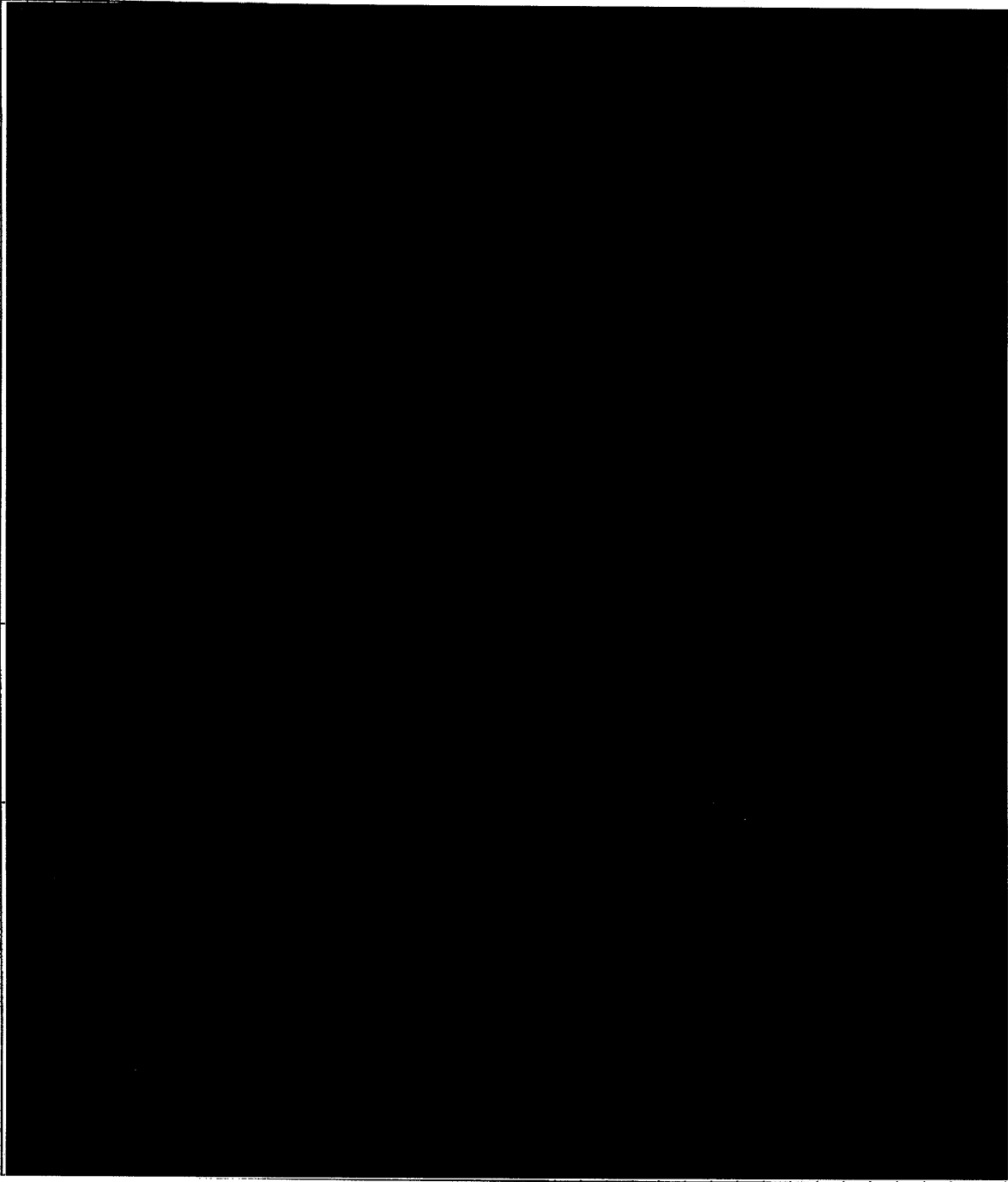
Pg 5



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(b)(4)

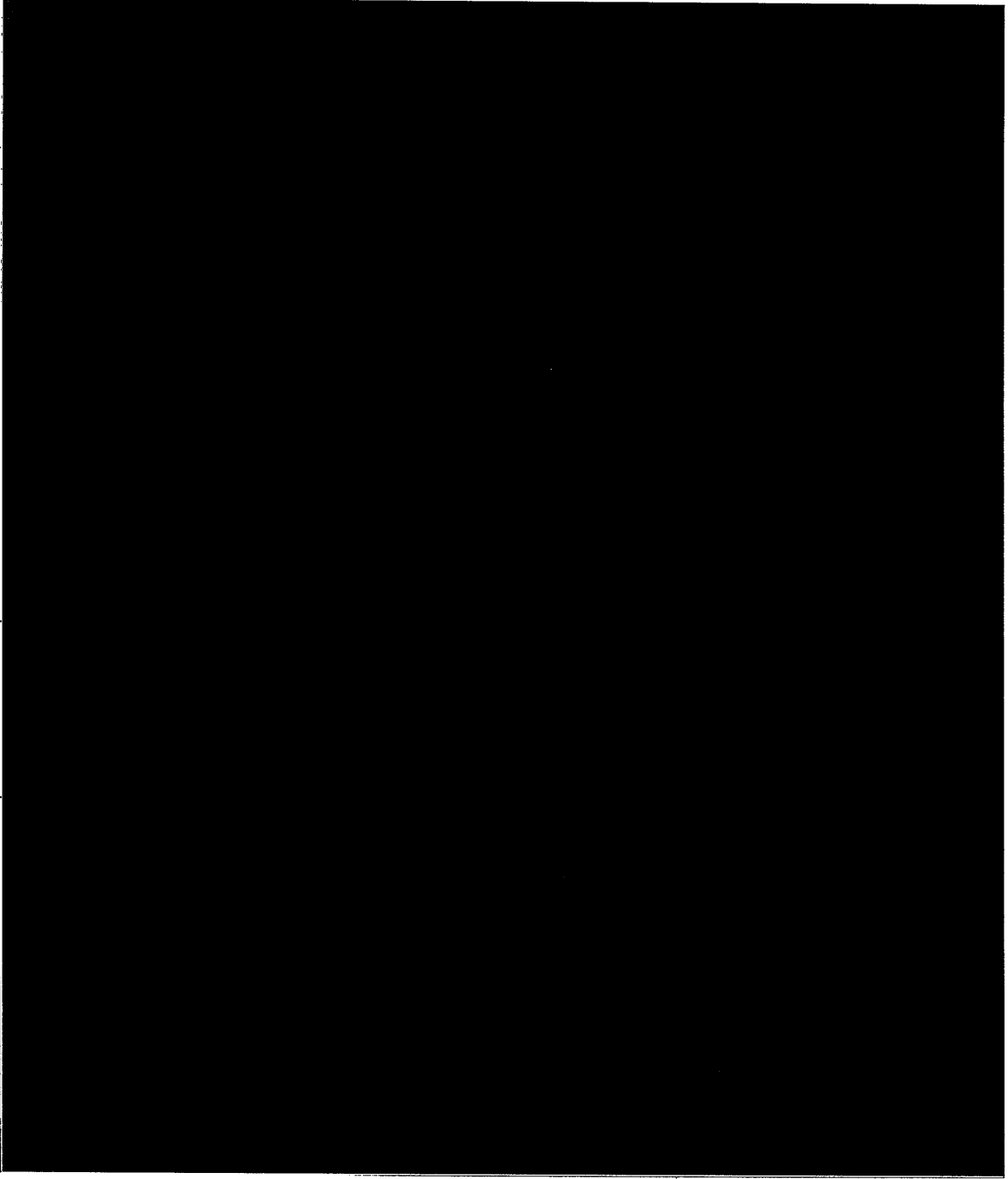
Pg 6



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(b)(4)

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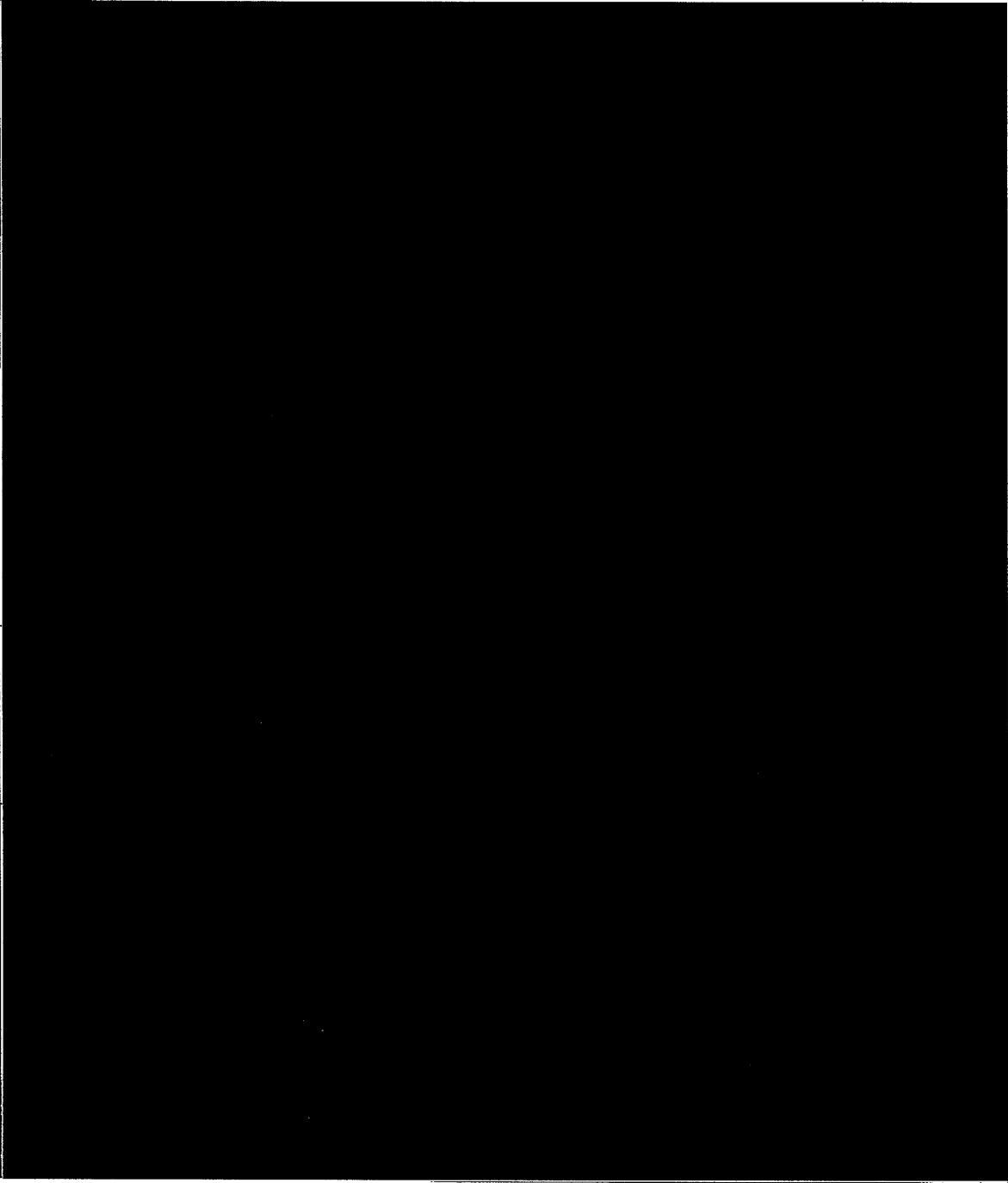


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(b)(4)

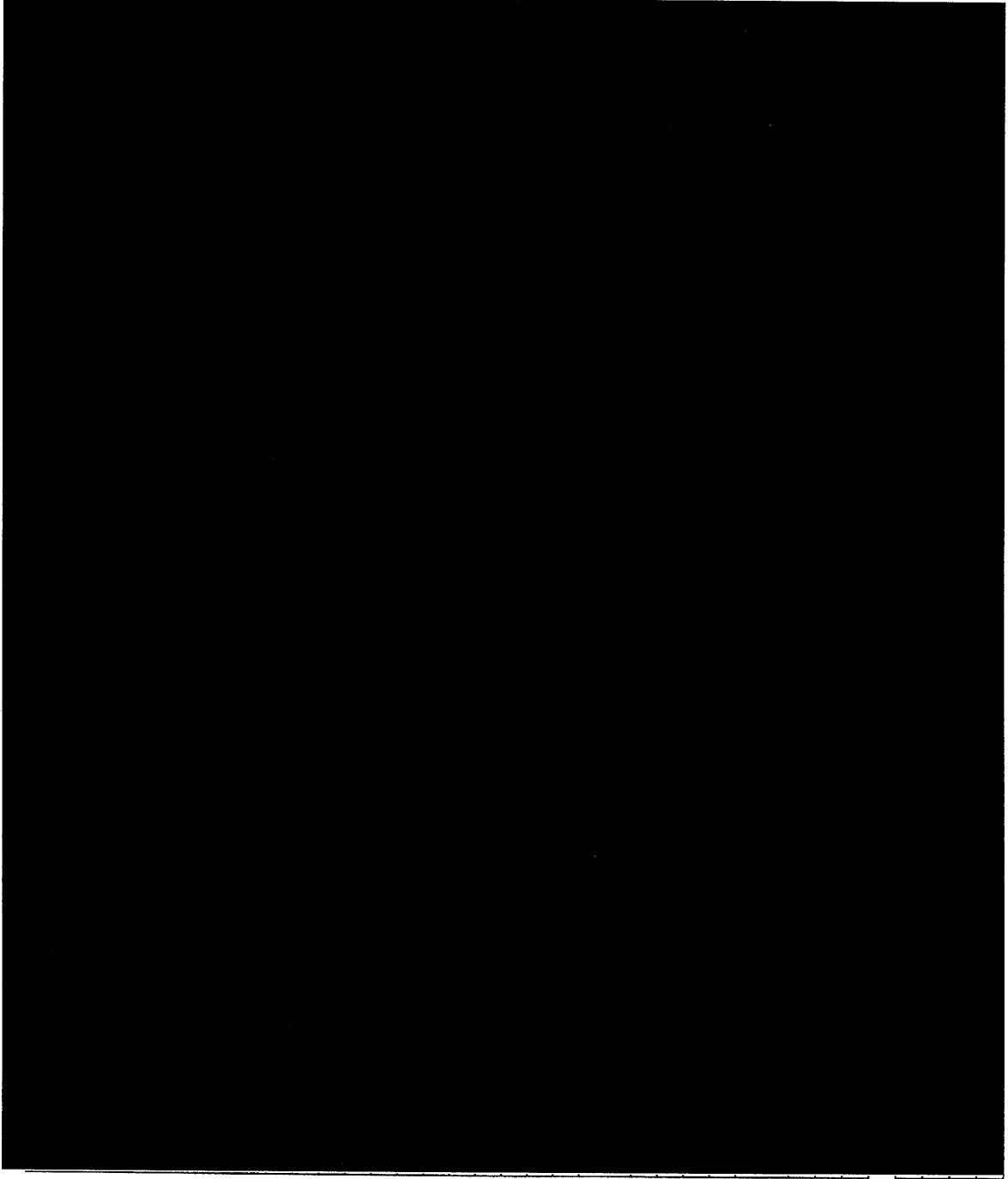
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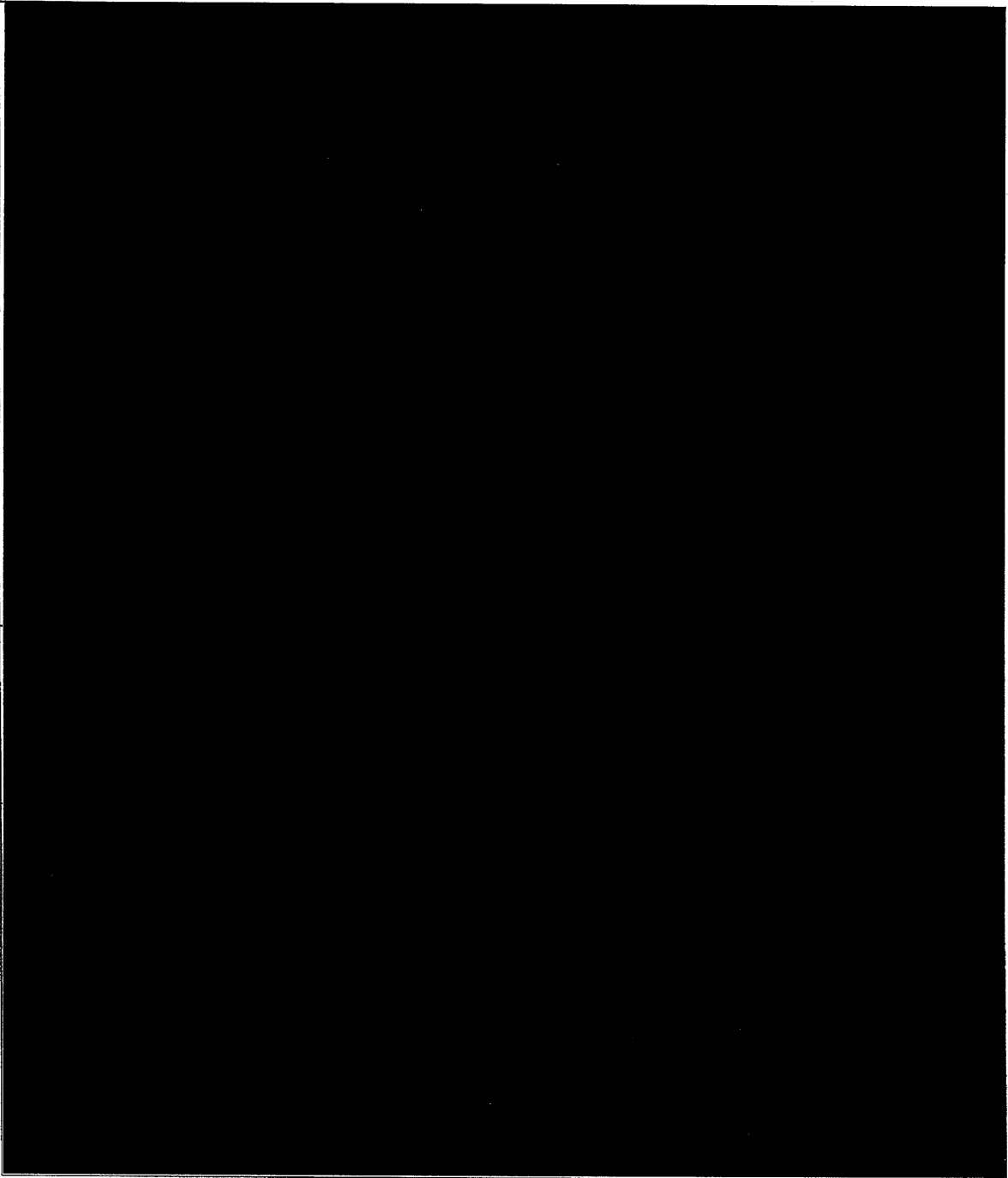
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(b)(4)

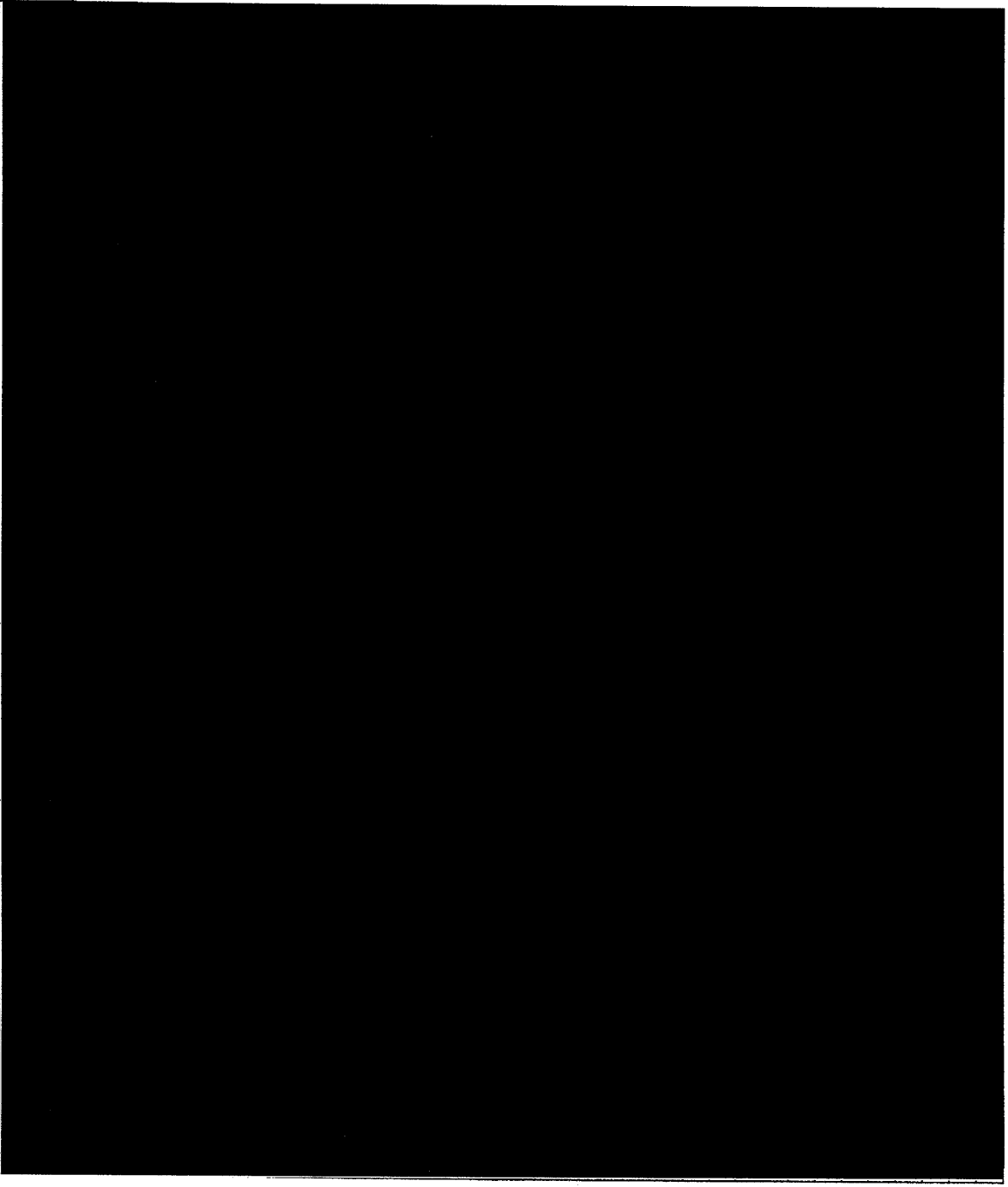
pg 10



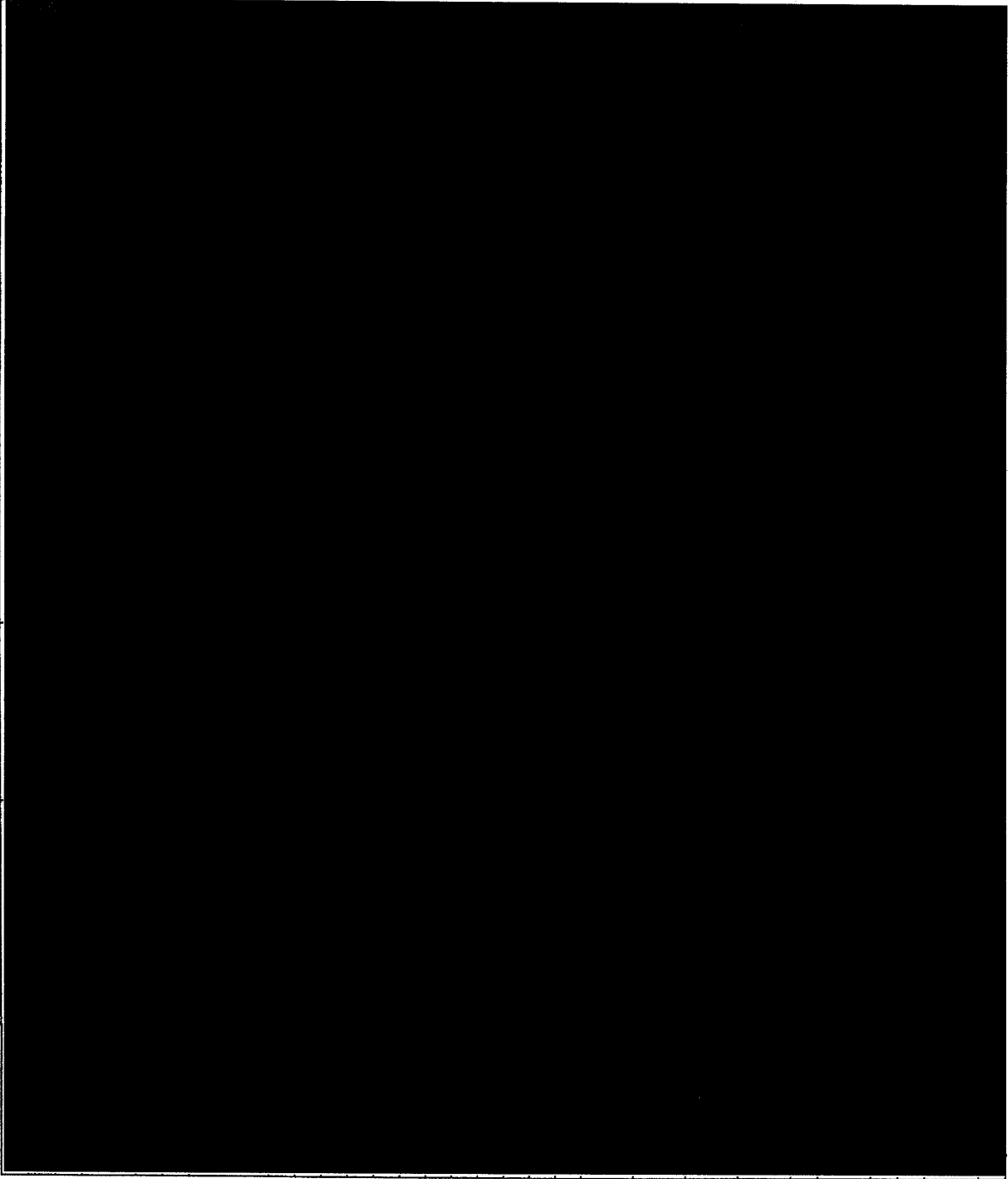
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(b)(4)

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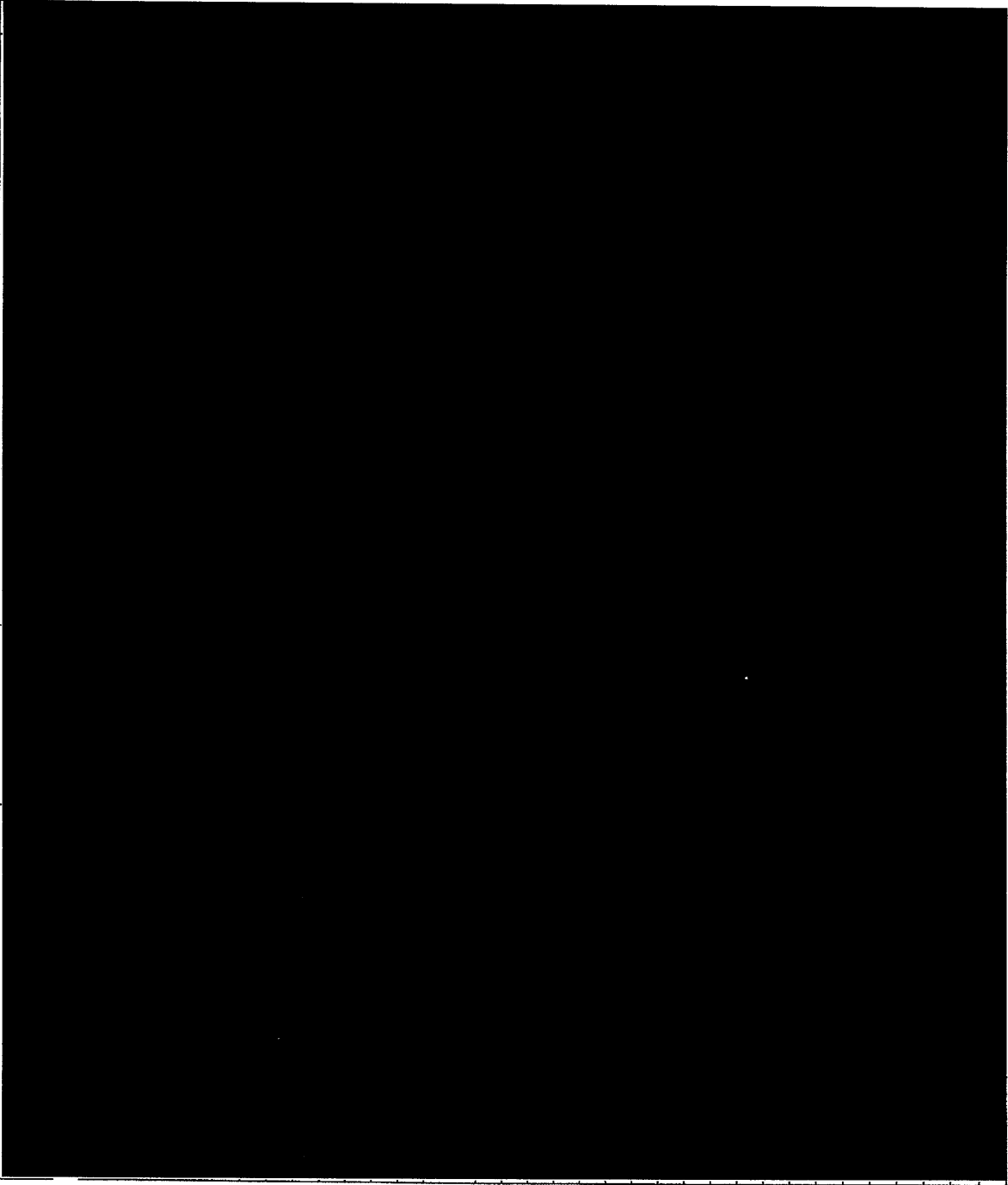


(b)(4)



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(b)(4)

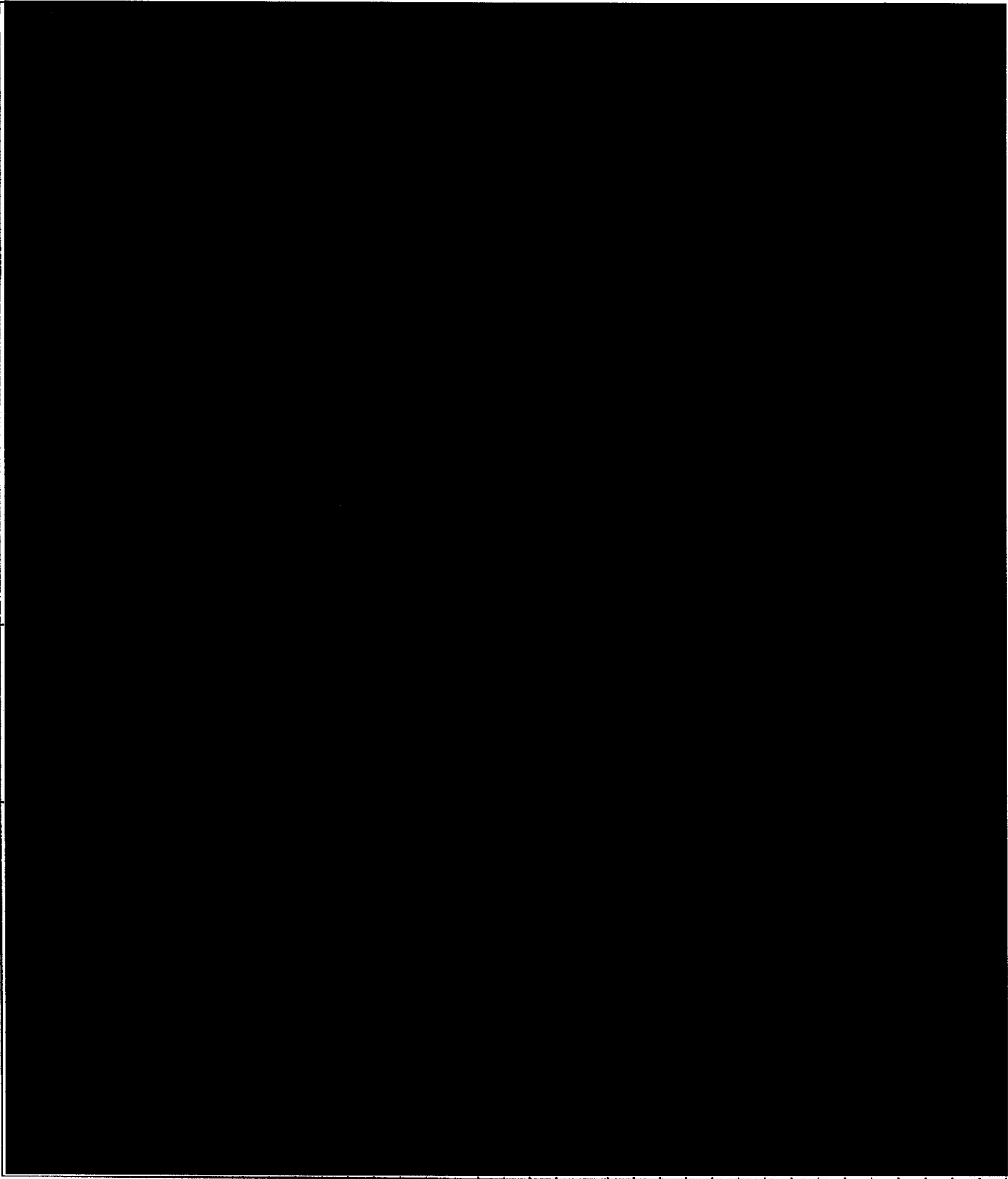


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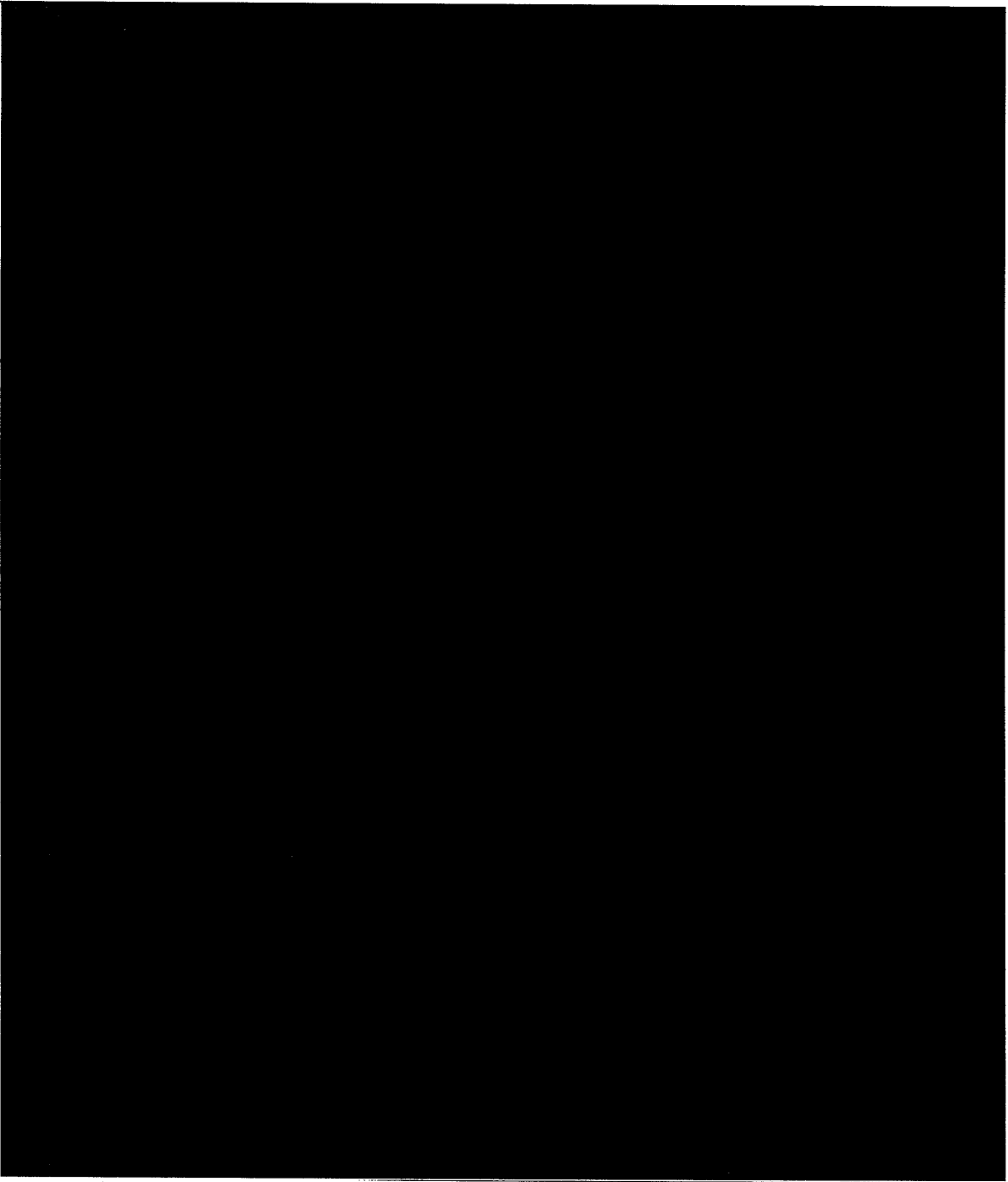
(b)(4)

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(b)(4)

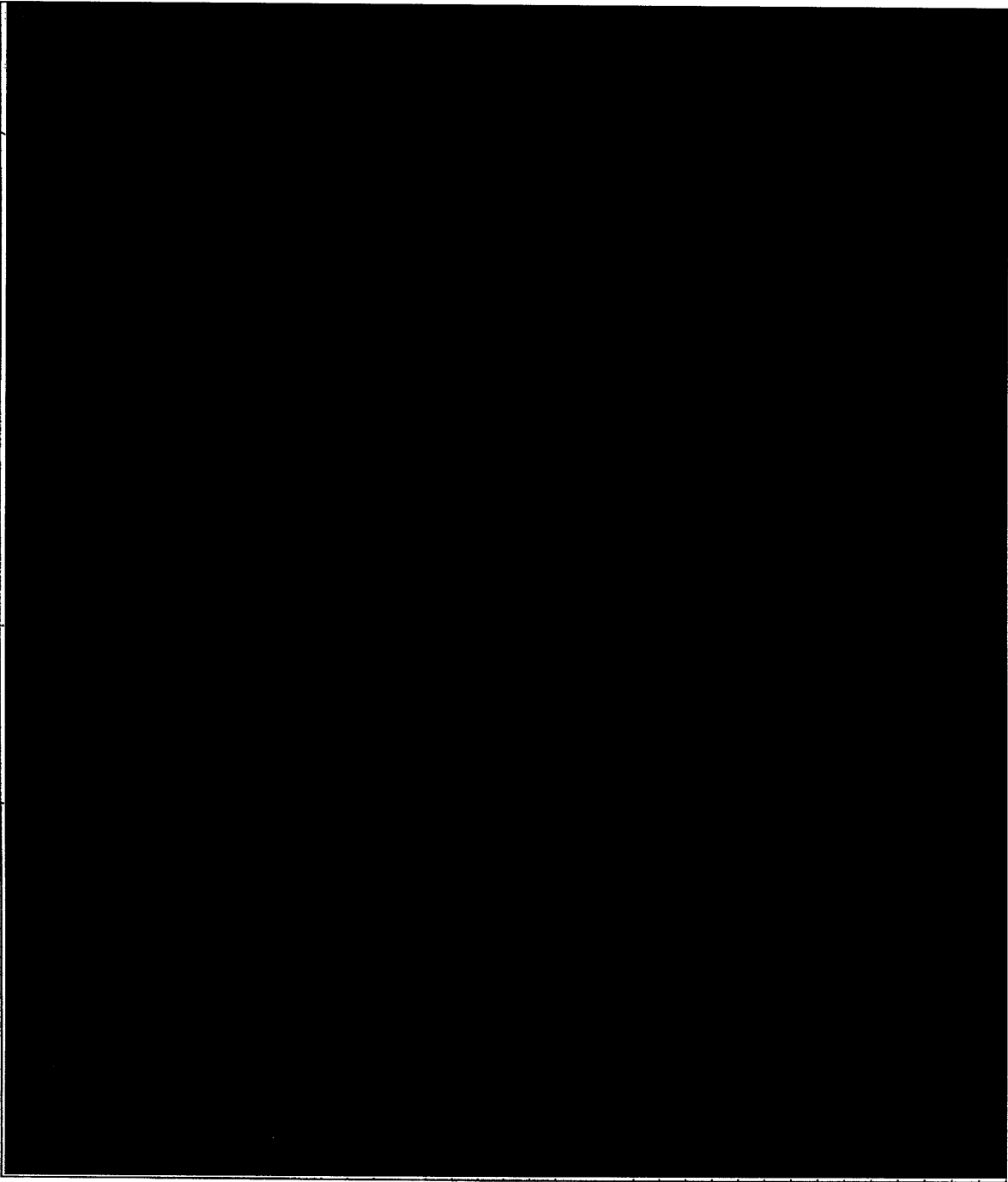


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(b)(4)

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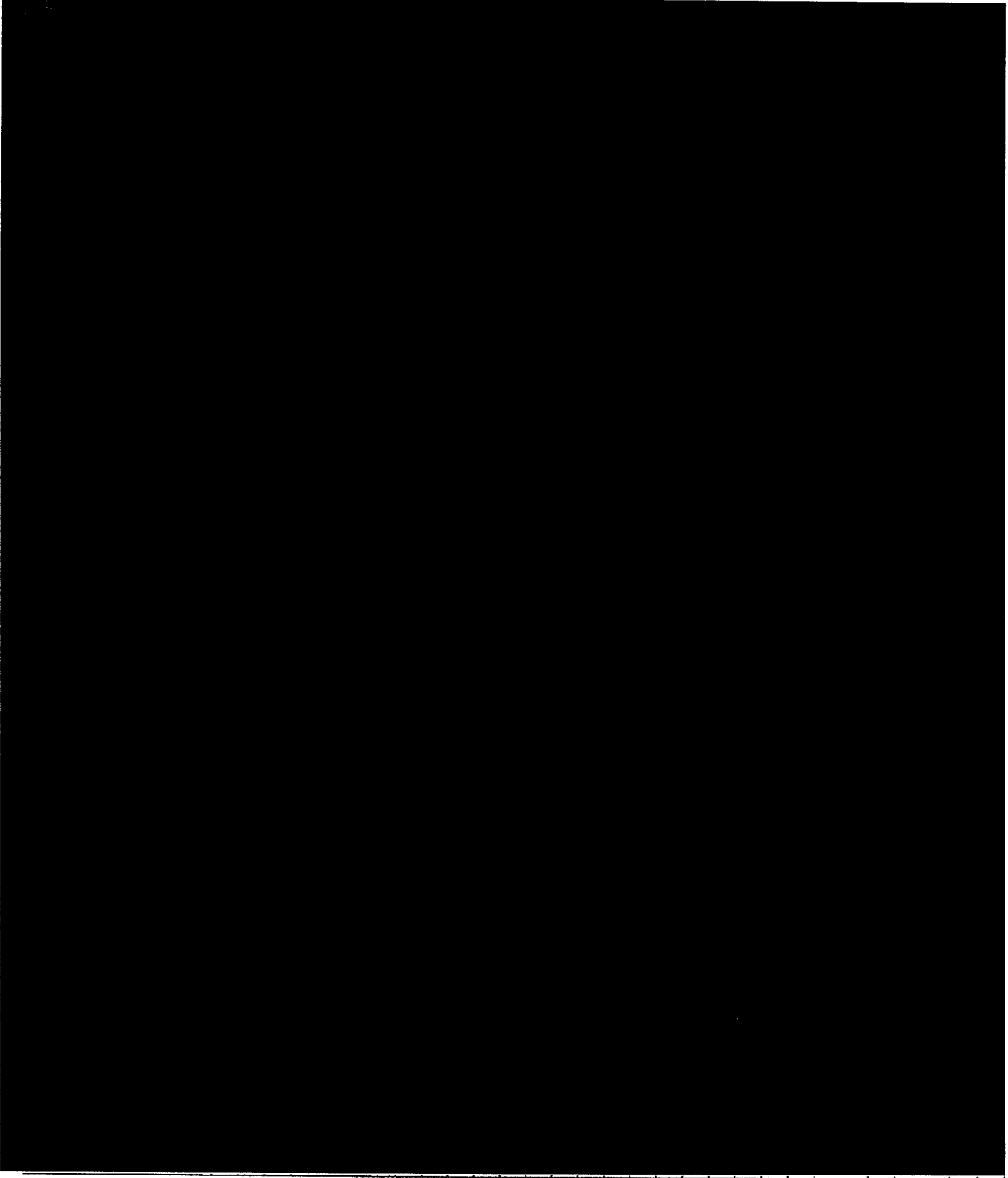
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(b)(4)

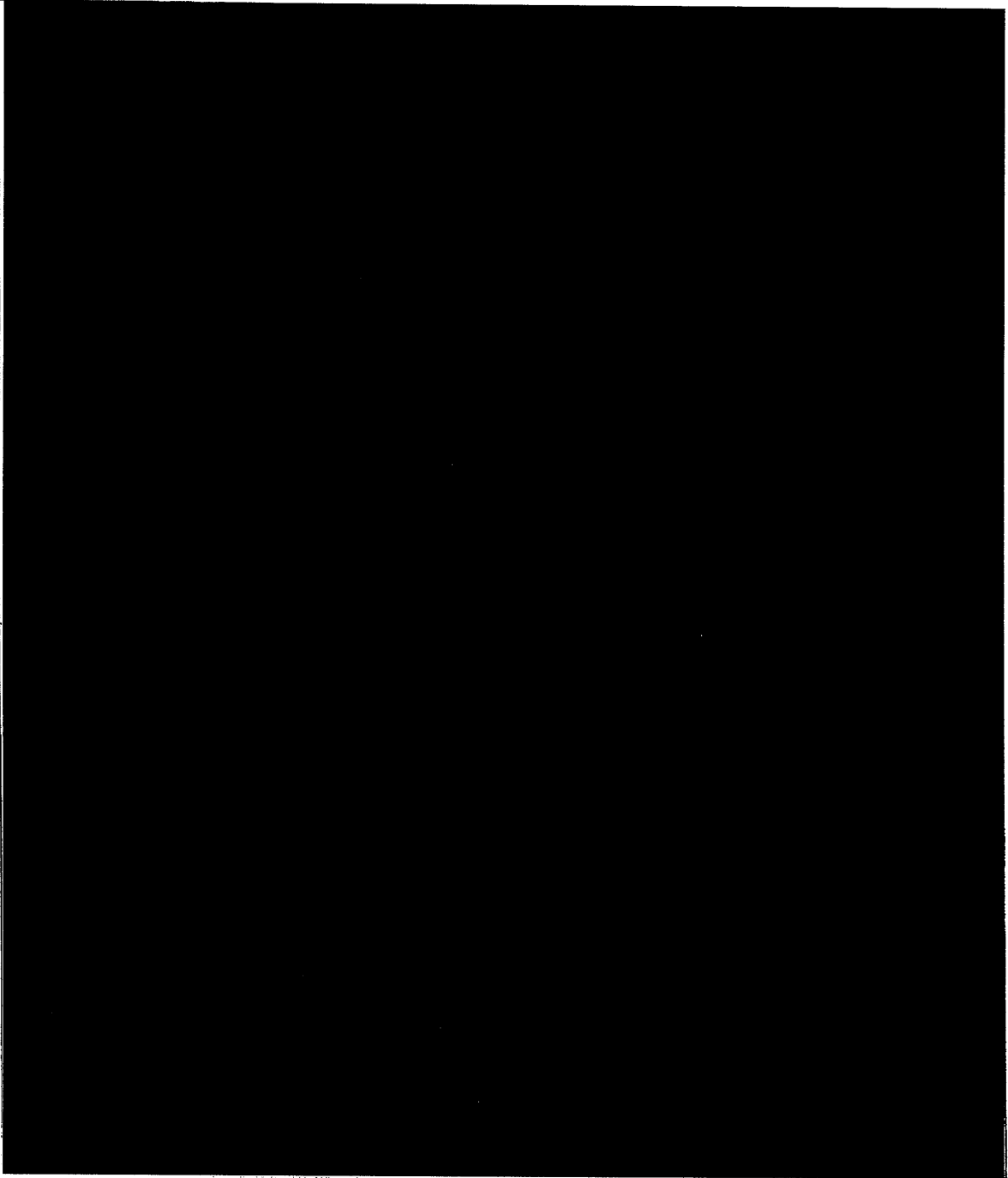
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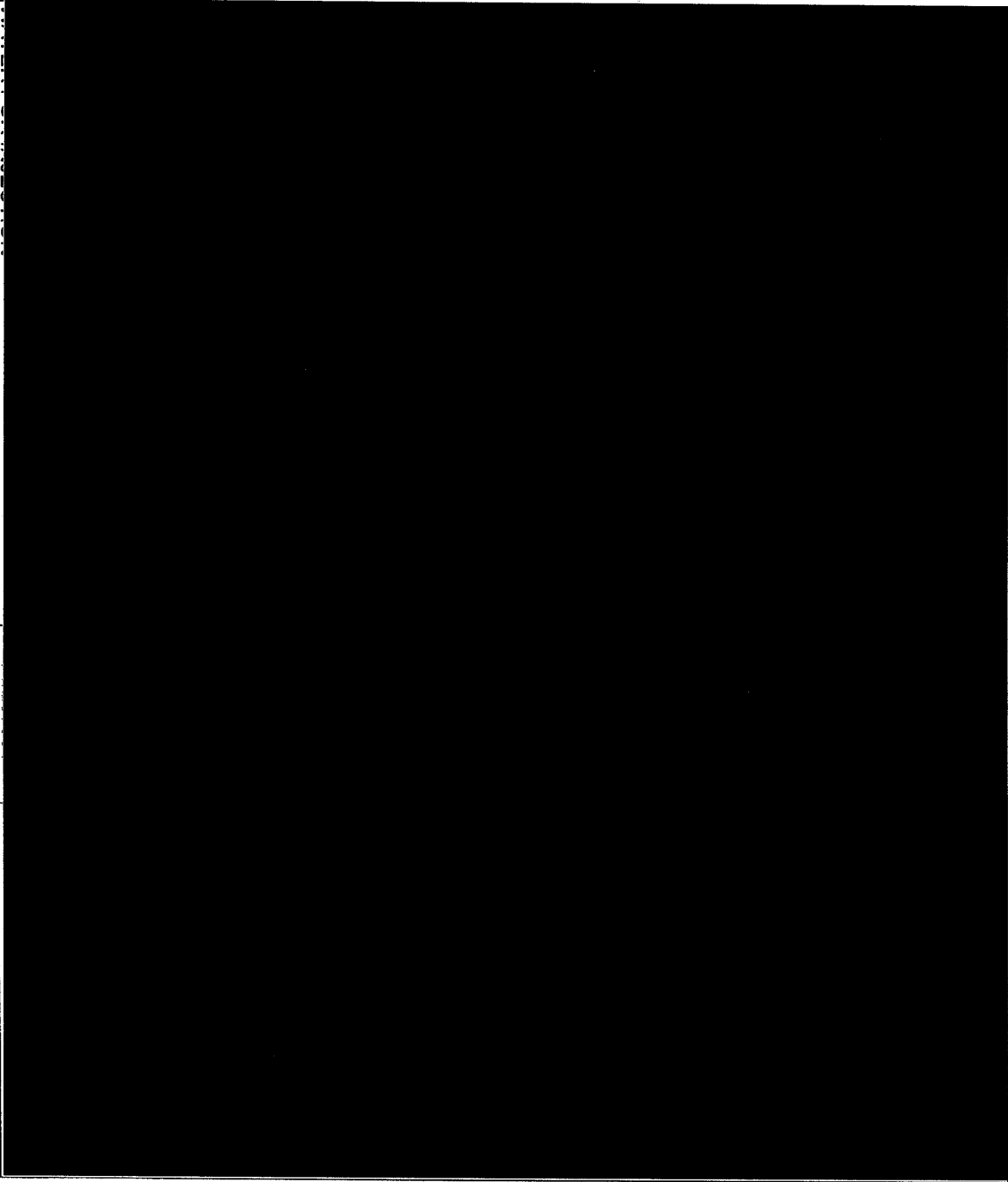
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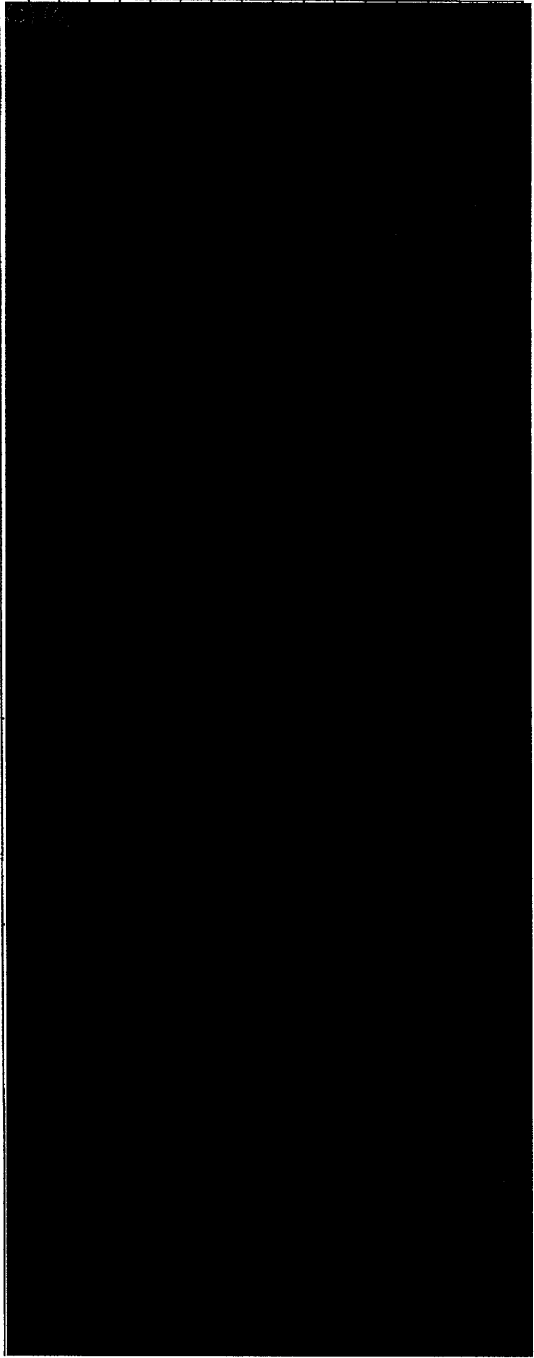
(b)(4)

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(b)(4)



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