

AWARD/CONTRACT	1. This Contract Is A Rated Order Under DPAS (15 CFR 700)	Rating DOA4	Page 1 Of 26
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2. Contract (Proc. Inst. Ident) No. W56HZV-04-C-0024	3. Effective Date 2004AUG24	4. Requisition/Purchase Request/Project No. SEE SCHEDULE
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5. Issued By TACOM WARREN AMSTA-AQ-ABGB DOUG SCHROEDER (586)574-8072 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL e-mail address: SCHROEDD@TACOM.ARMY.MIL	Code	W56HZV	6. Administered By (If Other Than Item 5) DCMA DETROIT U.S. ARMY TANK & AUTOMOTIVE COMMAND (TACOM) ATTN: DCMAE-GJD WARREN, MI 48397-5000	Code	S2305A
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7. Name And Address Of Contractor (No. Street, City, County, State, And Zip Code) LINK ENGINEERING COMPANY 43855 PLYMOUTH OAKS BLVD. PLYMOUTH, MI. 48170-2539 TYPE BUSINESS: Other Small Business Performing in U.S.	8. Delivery <input type="checkbox"/> FOB Origin <input checked="" type="checkbox"/> Other (See Below) SEE SCHEDULE
9. Discount For Prompt Payment	10. Submit Invoices (4 Copies Unless Otherwise Specified)
Code 0VXA0 Facility Code	Item 12 To The Address Shown In:

11. Ship To/Mark For SEE SCHEDULE	Code	12. Payment Will Be Made By DFAS - COLUMBUS CENTER DFAS-CO/NORTH ENTITLEMENT OPERATION P.O. BOX 182266 COLUMBUS OH 43218-2266	Code	HQ0337
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13. Authority For Using Other Than Full And Open Competition: <input type="checkbox"/> 10 U.S.C. 2304(c) () <input type="checkbox"/> 41 U.S.C. 253(c) ()	14. Accounting And Appropriation Data ACRN: AA 21 42040000046N6N7EP665502255Y S20113 W56HZV
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15A. Item No. SEE SCHEDULE	15B. Schedule Of Supplies/Services CONTRACT TYPE: Cost-Plus-Fixed-Fee	15C. Quantity	15D. Unit	15E. Unit Price	15F. Amount
KIND OF CONTRACT: Research and Development Contracts					
Contract Expiration Date: 2006OCT30				15G. Total Amount Of Contract	\$729,700.00

16. Table Of Contents							
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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 2 signed copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the 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 are set forth in full above, is hereby accepted as to the 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.
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19A. Name And Title Of Signer (Type Or Print)	20A. Name Of Contracting Officer WYMAN E. YOUNG II YOUNGE@TACOM.ARMY.MIL (586)574-8093
19B. Name of Contractor	20B. United States Of America
By _____ (Signature of person authorized to sign)	By _____ /SIGNED/ (Signature of Contracting Officer)
19c. Date Signed	20C. Date Signed 2004AUG24

Name of Offeror or Contractor: LINK ENGINEERING COMPANY

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT						
0001	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>ADVANCED TIRE COEFFICIENT CHARACTERISTICS</u></p> <p>NOUN: FY04 PHII SBIR SECURITY CLASS: Unclassified</p> <p>Contractor shall furnish all the supplies and services to accomplish the task specified in Section C "Scope of Work."</p> <p>Estimated Cost: \$687,395 Fixed Fee: \$ 42,305 Total Amount : \$729,700</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u></p> <table border="0"> <tr> <td>DLVR SCH</td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u> <u>QUANTITY</u> <u>DATE</u></td> <td></td> </tr> <tr> <td>001 1 28-FEB-2007</td> <td></td> </tr> </table> <p>\$ 729,700.00</p>	DLVR SCH	PERF COMPL	<u>REL CD</u> <u>QUANTITY</u> <u>DATE</u>		001 1 28-FEB-2007		1	EA		\$ 729,700.00
DLVR SCH	PERF COMPL										
<u>REL CD</u> <u>QUANTITY</u> <u>DATE</u>											
001 1 28-FEB-2007											
000101	<p><u>ADVANCED TIRE COEFFICIENT CHARACTERISTICS</u></p> <p>NOUN: FY04 PHII SBIR LINK ENGINEER PRON: E142C029EH PRON AMD: 01 ACRN: AA AMS CD: 665502M4055 (AMOUNT: \$ 484,875.00)</p>										
0002	<p><u>DATA ITEM</u></p> <p>SECURITY CLASS: Unclassified</p>										
A001	<p><u>PROGRESS, STATUS AND MANAGEMENT REPORTS</u></p> <p>NOUN: DI-MGMT-80227 SECURITY CLASS: Unclassified</p>	1	EA	\$ ** NSP **	\$ ** NSP **						

CONTINUATION SHEET

Reference No. of Document Being Continued
 PIIN/SIIN W56HZV-04-C-0024 MOD/AMD

Name of Offeror or Contractor: LINK ENGINEERING COMPANY

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
A004	<p>FOB POINT: Destination</p> <p>SHIP TO: <u>PARCEL POST ADDRESS</u> (Y00003) SEE NARRATIVE ON DD 1423</p> <p><u>PRESENTATION MATERIALS</u></p> <p>NOUN: DI-ADMIN-81373 SECURITY CLASS: Unclassified</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p>	1	EA	\$ <u> ** NSP ** </u>	\$ <u> ** NSP ** </u>

CONTINUATION SHEET**Reference No. of Document Being Continued**

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MOD/AMD

Name of Offeror or Contractor: LINK ENGINEERING COMPANY**B.1 Estimated Cost and Payment**

B.1.1 The Contractor will be paid for the cost stated in Section B under CLIN 0001 for the performance of work under the Contract the reimbursement of cost shall constitute full and complete consideration for the Contractor's service in connection with the work required and performed under this Contract.

B.1.2 Allowable cost shall be determined, and payment shall be provided, in accordance with the Contract Clause entitled, "ALLOWABLE COST AND PAYMENT."

B.2 Payment

The Contractor may submit public vouchers on a monthly basis for payment under this Contract. The costs will be payable at the time of reimbursement at the same rate subject to any withholding pursuant to provisions of this Contract.

B.3 Funding

B.3.1 The Government shall provide funds under this Contract covering the estimated cost and fixed-fee, on an incremental basis as provided for in the following funding schedule and pursuant to the Contract Clause entitled, "LIMITATION OF FUNDS." It is estimated that the incremental amounts are sufficient for the performance of work in each cited period. The Government may, at its discretion, allot such funds on an incremental basis within each fiscal year. The Contractor shall plan and execute the work required by this Contract to expend and/or commit funds compatible with the funding schedule below. Whenever the Contractor has reason to believe the funds allotted to this contract for any fiscal year are either insufficient or excessive for performing the work required in that fiscal year, the Contractor shall notify the Government.

B.3.2 Incremental Funding Schedule

<u>Performance Period</u>	<u>Amount</u>
Award through March 2005:	\$484,875
Apr 2005 through Contract Completion:	<u>\$244,825</u>
Total:	\$729,700

B.4 Funds Allotted. The amount of funds currently allotted to this Contract are \$484,875.

B.4.1 For the purpose of the Contract clause, "LIMITATION OF FUNDS," the total amount allotted by the Government to the Contract shall be the amount of funds allotted in paragraph B.4 above.

B.4.2 In performing this Contract, the Contractor is not obligated to incur costs, in excess of the amount of funds allotted to the Contract, as shown in this clause, nor is the Government obligated to reimburse the Contractor for cost in excess of the amount of funds allotted to the Contract by the Government.

*** END OF NARRATIVE B 001 ***

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Name of Offeror or Contractor: LINK ENGINEERING COMPANY

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
C-1 52.204-4003 (TACOM)	START OF WORK MEETING	MAY/2000

The contractor shall host a start of work meeting at its facility, unless some other location is designated in the contract, within 30 days after contract award. The contractor shall at a minimum invite the Contracting Officer's Representative (COR) identified in Section G or in an appointment letter, the Contract Specialist identified on the face page of this document, and the Administrative Contracting Officer (ACO). The COR, Contract Specialist, and ACO shall be given at least 14 days advance notice of the time, date, and location of the start of work meeting. The preferred method of notification is by email.

[End of Clause]

Statement of Work

Background

The US Army Tank Automotive and armaments Command is introducing wheeled combat vehicles in order to make the fighting fleet lighter and more transportable without giving up performance. In order to maintain vehicle performance levels Central Tire Inflation Systems and Run flat tires are being used more frequently. More accurate tire data is needed to ensure that our computer models can account for the new demands being put on tires. The call for research on methods to obtain tire characteristics necessary to develop tire computer models for use in high-resolution multi-body ground based vehicle models resulted in the contractor proposal A2-1223 which builds on the successes in the Phase I SBIR contract. This Phase II will complete the engineering analysis of the three candidate Tire Testing machine configurations identified in Phase I, (1) Large Diameter Roll Tester, (2) Flat Track Tester and, (3) Flat Moving Plate Tester, and present the resulting analysis and recommendation to the Contracting Officer for review and approval of the concept to be pursued for a detailed design package. In addition to the analysis and the design package of a complete tire testing machine the contractor shall manufacture the machine test head part of the machine as described in C.5 of this contract .

C.1 Design Concept Analysis and Recommendation

C.1.1 The contractor, as an independent contractor and not as an agent of the Government, shall evaluate the design concepts and cost of the three candidate Tire Testing machine configurations, (1) Large Diameter Roll Tester, (2) Flat Track Tester and, (3) Flat Moving Plate Tester, and present the written results of the analysis and a recommendation to the Contracting Officer for review and approval of the concept to be pursued for a detailed design package ninety days after award.

C.1.2 The design evaluation shall address the following:

1. The physical size of the machine with relation to the planned location in which it will be installed
2. The cost of the complete machine
3. The accuracies of the various tests
4. The capabilities of each configuration
5. The amount of time needed to manufacture the base machine
6. The risks associated with one configuration versus others
7. The facilities required to support the machine shall be specifically addressed to include installation requirements.

C.2 Machine Design Package

The overall objective is to develop a complete design for a test machine, based on the concept chosen based on the evaluation results of paragraph C.1 above, including the test head and the base which will capture and provide tire performance parameters to improve vehicle dynamics models, and deliver the complete design to the Government eighteen months after award.

C.2.1 Performance parameters shall include:

C.2.1.1 Quasi-Static Tests

C.2.1.1.1 Vertical Force vs. Deflection - Flat Plate. Deflection is understood to be the displacement of the wheel/tire origin with respect to the road surface, not the deflection of the road surface.

C.2.1.2 Dynamic Tests

C.2.1.2.1 Lateral force vs. side slip angle vs. normal force at several tire speeds and camber angles

C.2.1.2.2 Longitudinal force vs. longitudinal slip angle vs. normal force at several tire speeds and camber angles

Name of Offeror or Contractor: LINK ENGINEERING COMPANY

C.2.1.2.3 Tire vertical force vs. deflection at several speeds and camber angles. Deflection is understood to be the displacement of the wheel/tire origin with respect to the road surface, not the deflection of the road surface.

C.2.1.2.4 Tire lateral force vs. deflection at several speeds and camber angles. Deflection is understood to be the displacement of the wheel/tire origin with respect to the road surface, not the deflection of the road surface.

C.2.1.2.5 Aligning moment

C.2.1.3 In order to develop a machine capable of testing the tire performance parameters outlined in paragraphs C.2.1 through C.2.1.2.5, the contractor must design the machine to optimize the accuracy for the following parameters. The accuracy and range of the measurement parameters are to be determined in the C.1 Design Concept Analysis and Recommendation phase of the contract.

C.2.1.3.1 Tires sizes and inflation pressures to be tested

C.2.1.3.2 Speed range required (maximum and minimum)

C.2.1.3.3 Vertical (radial) load requirements (maximum and minimum)

C.2.1.3.4 Lateral load requirements (maximum and minimum)

C.2.1.3.5 Steer angle requirements (maximum and increment)

C.2.1.3.6 Camber angle requirements (maximum and increment)

C.2.1.3.7 Residual self-aligning torque requirements (minimum and maximum)

C.3 Design of the Base Machine

C.3.1 The contractor shall provide a detailed design of the structural and mechanical motion of the base machine, a description of sensors, measurement system, and controls for the base machine, the allowable speed range and safety interlocks, the power, electrical controls, sensors, and data transfer systems.

C.3.2 The contractor shall provide a detailed design of the complete mechanical system including structural components, rotating equipment, lubrication and bearing systems, hydraulics, and related components, the complete electrical system including power, controls, wiring, transducers, and logic diagrams.

C.4.1 The contractor shall provide a description of software operation for each specific test, and the software package and its capabilities. This information shall be included in the quarterly progress report outlined in C.6.1.

C.4.2 The contractor shall provide user interface screen examples for each specific test and scripts to run all specific tests. This information shall be included in the quarterly progress report outlined in C.6.1.

C.4.3 The contractor shall provide measurement accuracies for each of the parameters outlined in paragraphs C.2.1.3.1 through C.2.1.3.7 as well as range of geometrical values including steer angles, camber angles, tire and wheel sizes, and other critical dimensional issues.

C.5 Test Head Manufacture Requirements

C.5.1 The contractor shall deliver a complete functioning Test Head capable of being mounted on an existing machine base located in the TACOM Warren tire lab.

C.5.2 The contractor shall provide machine test head manufacture requirements to include a complete mechanical system to include structural components, rotating equipment, lubrication and bearing systems, hydraulics, and related components, as well as a complete electrical system to include power, controls, wiring, transducers, and logic diagrams.

C.6 Meetings, Reporting and Presentations

C.6.1 The contractor shall submit quarterly progress reports as outlined in CDRL A001.

C.6.2 The contractor shall submit a Draft and Final Scientific Reports upon completion of contract performance as outlined in CDRL A002.

C.6.3 The contractor shall host a Start of Work Meeting at its facility to discuss the Work Plan to be followed for the evaluation of the three candidate machine designs and the schedule for the manufacture of the Machine head.

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Name of Offeror or Contractor: LINK ENGINEERING COMPANY

C.6.4 The contractor shall host a Design Review Meeting of the Test Head and a Design Review Meeting of the Test Base. These meetings will discuss the progress to date for the Test Head and the progress on the Machine Base. Meeting times will be coordinated by the COR.

C.6.5 The Contractor shall prepare and deliver presentation materials in accordance with CDRL A004. These presentation materials may be publicly displayed at government locations, or at professional or industry trade shows or conferences.

*** END OF NARRATIVE C 001 ***

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Name of Offeror or Contractor: LINK ENGINEERING COMPANY		

SECTION D - PACKAGING AND MARKING

D.1 Packaging and Packing:

The Contractor shall package and pack all items deliverable under this Contract in accordance with standard commercial practice to assure arrival at destination without damage or loss.

D.2 Software Marking:

The Contractor shall mark all software delivered under this Contract with the software title, TACOM Contract number, the name and address of the prime Contractor, and the name and address of the Sub-Contractor (if any) which generated the software. The marking shall be in the format below for the prime Contractor or Subcontractor generated software as applicable.

Software Title
TACOM Contract Number
Prime Contractor's Name
Prime Contractor's Address

Software Title
TACOM Contractor Number
Prime Contractor's Name
Prime Contractor's Address
Sub-Contractor's Name
Sub-Contractor's Address

D.3 Materials and Hardware Marking

The Contractor shall mark or tag all materials and hardware deliverable under this Contract with the following information:

TACOM Contract Number
Contractor's Name
Contractor's Address
A Description of the Material or Hardware (e.g., WRU Prototype System for 30 kW Generator)

*** END OF NARRATIVE D 001 ***

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SECTION E - INSPECTION AND ACCEPTANCE

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
E-1	52.246-8	INSPECTION OF RESEARCH AND DEVELOPMENT -- COST-REIMBURSEMENT	MAY/2001

E.2 Inspection and Acceptance

Other than the design analysis and recommendation required by paragraph C.1, the Contracting Officer's Representative (COR) is responsible for inspecting and accepting or rejecting all data and hardware submitted by the Contractor to the Government, at destination, in accordance with the terms of the Contract.

*** END OF NARRATIVE E 001 ***

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Name of Offeror or Contractor: LINK ENGINEERING COMPANY

SECTION F - DELIVERIES OR PERFORMANCE

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
F-1	52.242-15	STOP WORK ORDER--(ALTERNATE I dated APR 1984)	AUG/1989
F-2	52.247-34	F.O.B. DESTINATION	NOV/1991

F.1.1 Data

F.1.2 The delivery schedule for the data items is found on Exhibit A, The Contract Data Requirements List (DD Form 1423).

F.1.3. All data deliverables under this contract shall be delivered electronically to the email addresses specified in the Contract Data Requirements List (CDRL) DD Form 1423.

F.2 Period of Performance

The period of performance of this contract is from contract award through 30 Nov 2006.

F.3 All software and documents shall be shipped FOB Destination to the following address:

U.S.Army TACOM
6501 E. 11 Mile Road
Attn: AMSTA-TR-R
Warren Michigan, 48397-5000

F.4 The machine head from paragraph C.2 shall be delivered by 30 Nov 2006.

*** END OF NARRATIVE F 001 ***

Name of Offeror or Contractor: LINK ENGINEERING COMPANY

SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/	OBLG	JOB	ACCOUNTING	OBLIGATED
<u>ITEM</u>	<u>MIPR</u>	<u>ACRN STAT</u>	<u>ORDER</u>	<u>STATION</u>	<u>AMOUNT</u>
000101	E142C029EH 665502M4055	AA 2 21	42040000046N6N7EP665502255Y S20113	42C029 W56HZV \$	484,875.00
TOTAL					\$ 484,875.00

SERVICE <u>NAME</u>	<u>TOTAL BY ACRN</u>	<u>ACCOUNTING CLASSIFICATION</u>	<u>ACCOUNTING STATION</u>	<u>OBLIGATED AMOUNT</u>
Army	AA	21 42040000046N6N7EP665502255Y S20113	W56HZV	\$ 484,875.00
TOTAL				\$ 484,875.00

<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
G-1 52.242-4016 (TACOM)	COMMUNICATIONS	MAY/2000

(a) Communications on technical matters pertaining to the contract shall be direct between the contractor and the Technical Representative. Communications for the Technical Representative shall be addressed to:

Name: Dariusz Mikulski
e-mail: MikulskD@tacom.army.mil

(b) The Administrative Contracting Officer's (ACO) name and email address are also provided if known at this time:

ACO: Ms. Carrie Zunk
e-mail: carrie.zunk@dcma.mil

(c) Please see the appointment letters prepared at time of contract award for functions the Technical Representative and ACO will perform on this contract.

[End of Clause]

G-2	252.201-7000	CONTRACTING OFFICER'S REPRESENTATIVE	DEC/1991
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(a) Definition. Contracting Officer's Representative means an individual designated in accordance with subsection 201.602-2 of the Defense Federal Acquisition Regulation Supplement and authorized in writing by the contracting officer to perform specific technical or administrative functions.

(b) If the Contracting Officer designates a contracting officer's representative (COR), the Contractor will receive a copy of the written designation. It will specify the extent of the COR's authority to act on behalf of the contracting officer. The COR is not authorized to make any commitments or changes that will affect price, quality, quantity, delivery, or any other term or condition of the contract.

[End of Clause]

G-3	52.227-4004 (TACOM)	RELEASE OF INFORMATION	OCT/2003
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The contractor shall ensure that he complies with the requirements of Chapter 5, page 22, paragraph 5-48, of AR 360-1, The Army Public Affairs Program, dated 15 Oct 2000, prior to contemplated release of any procurement information. Approval of the Contracting Officer is required prior to release of any such information. AR 360-1 may be found at http://www.usapa.army.mil/pdffiles/r360_1.pdf

[End of clause]

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Name of Offeror or Contractor: LINK ENGINEERING COMPANY

G-4 52.232-4005 INVOICE INFORMATION REQUIREMENT JAN/1988
(TACOM)

On each payment request submitted, the Contractor shall identify each affected Contract Line Item Number (CLIN), sub-CLIN, and/or work directive, together with the related dollar amounts. This requirement does not diminish or restrict any other requirement of this contract.

G.18 (TACOM) SPECIAL PAYING INSTRUCTIONS: PAY OLDEST MONEY FIRST (MAR 2000)

This contract currently is funded (or later will be funded) by two or more separate funding documents, as shown in Section G of the contract by the presence of more than one long-line accounting classification for the Contract Line Item Numbers (CLINs) in the contract schedule. The funding represents (or later will represent) appropriations made available for obligation in more than one fiscal year.

In order for disbursements under the contract to be paid appropriately, the following requirements apply to the paying office:

The PAYING OFFICE: shall determine the total amount requested on each invoice or payment voucher received against the contract. Each payment shall be made against the oldest funding line(s) in the contract for which funds remain available. If the oldest fiscal year is represented by two or more accounting lines that still contain funds, payment shall be made equally against all accounting lines representing the oldest fiscal year until such lines are completely disbursed.

First example: the contract includes one accounting line from fiscal year 1999 and two accounting lines from fiscal year 2000. Result: disbursements against new invoices are made on the fiscal 1999 accounting line until it is completely disbursed, before any disbursements are made against the fiscal year 2000 accounting lines. Once disbursements start against the fiscal year 2000 lines, those payments will be split equally between the two available fiscal 2000 lines.

Second example: the contract includes four accounting lines from fiscal year 1999 and one accounting line from fiscal year 2000. Result: disbursements against new invoices are made and recorded equally against each of the four fiscal 1999 accounting lines. If one of the 1999 accounting lines becomes completely disbursed but money remains available on other 1999 lines, then payment on subsequent invoices will be made and recorded equally among the remaining 1999 lines until they become completely disbursed, before disbursements are made against the fiscal year 2000 line.

*** END OF NARRATIVE G 001 ***

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Name of Offeror or Contractor: LINK ENGINEERING COMPANY

SECTION H - SPECIAL CONTRACT REQUIREMENTS

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
H-1	252.204-7000	DISCLOSURE OF INFORMATION	DEC/1991
H-2	252.204-7002	PAYMENT FOR SUBLINE ITEMS NOT SEPARATELY PRICED	DEC/1991
H-3	252.205-7000	PROVISION OF INFORMATION TO COOPERATIVE AGREEMENT HOLDERS	DEC/1991
H-4	252.223-7006	PROHIBITION ON STORAGE AND DISPOSAL OF TOXIC AND HAZARDOUS MATERIALS	APR/1993
H-5	252.225-7001	BUY AMERICAN ACT AND BALANCE OF PAYMENTS PROGRAM	APR/2003
H-6	252.225-7002	QUALIFYING COUNTRY SOURCES AS SUBCONTRACTORS	APR/2003
H-7	252.225-7004	REPORTING OF CONTRACT PERFORMANCE OUTSIDE THE UNITED STATES	APR/2003
H-8	252.225-7009	DUTY-FREE-ENTRY--QUALIFYING COUNTRY SUPPLIES (END PRODUCTS AND COMPONENTS)	AUG/2000
H-9	252.225-7010	DUTY-FREE ENTRY--ADDITIONAL PROVISIONS	AUG/2000
H-10	252.225-7013	DUTY-FREE ENTRY	JAN/2004
H-11	252.227-7036	DECLARATION OF TECHNICAL DATA CONFORMITY	JAN/1997
H-12	252.227-7037	VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA	SEP/1999
H-13	252.231-7000	SUPPLEMENTAL COST PRINCIPLES	DEC/1991
H-14	252.235-7011	FINAL SCIENTIFIC OR TECHNICAL REPORT	SEP/1999
H-15	252.242-7004	MATERIAL MANAGEMENT AND ACCOUNTING SYSTEM	DEC/2000
H-16	252.246-7000	MATERIAL INSPECTION AND RECEIVING REPORT	MAR/2003
H-17	252.246-7001	WARRANTY OF DATA	DEC/1991
H-18	252.227-7039	PATENTS -- REPORTING OF SUBJECT INVENTIONS	APR/1990

The Contractor shall furnish the Contracting Officer the following:

(a) Interim reports every twelve (12) months (or such longer period as may be specified by the Contracting Officer) from the date of the contract, listing subject inventions during that period and stating that all subject inventions have been disclosed or that there are no such inventions.

(b) A final report, within three (3) months after completion of the contracted work, listing all subject inventions or stating that there were no such inventions.

(c) Upon request, the filing date, serial number and title, a copy of the patent application and patent number, and issue data for any subject invention for which the Contractor has retained title.

(d) Upon request, the Contractor shall furnish the Government an irrevocable power to inspect and make copies of the patent application file.

(End of clause)

H-19	52.204-4005	REQUIRED USE OF ELECTRONIC CONTRACTING	JUN/2004
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H-20	52.216-4008 (TACOM)	STATUS OF FUNDS ON COST REIMBURSEMENT CONTRACTS/CLINS	JUN/1989
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(a) The Contractor shall review the funding as it relates to work performed on the cost-reimbursement Contract Line Item Numbers (CLINs) under this contract and shall provide to the Procuring Contracting Officer (PCO) a written determination of what, if any, funds are excess to requirements (leaving a reasonable amount for final overhead rate negotiations and other reasonably predicted requirements) and are available for deobligation. This review shall be coordinated with the Administrative Contracting Officer (ACO), and the written determination shall be accomplished within 120 days of completion of performance under the CLIN. The report shall be prepared in terms of dollars available per Purchase Request Order Number (PRON), unless requested otherwise by the PCO.

(b) This report may be requested in writing by the PCO on additional occasions during the course of performance of work on cost-reimbursable CLINs contained in this contract. On such occasions, the written report shall be provided to the PCO within 14 days of Contractor receipt of the written request.

(End of clause)

H-21	52.246-4026 (TACOM)	LOCAL ADDRESSES FOR DD FORM 250	JAN/2002
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(a) The contractor must provide a copy of each Material Inspection and Receiving Report (DD 250) pertaining to this contract, to the addresses given below, using either of the following methods:

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(1) Our first preference is for you to use electronic mail (e-mail), using the following e-mail address: DD250@tacom.army.mil

(2) Our second preference is for you to use data facsimile (datafax) transmission, using this fax number: (586) 574-5527 and use "DD250 mailbox" in the "to:" block of your fax cover or header sheet.

In either method, do not mix DD250s from more than one contract in a single transmission. That is, you may submit multiple DD250s in a single transmission, but they must all be against the same contract.

(b) These copies meet the requirements for the Purchasing Office copy and the Army Inventory Control Manager copy listed in tables 1 and 2 of DFARS Appendix F.

(c) The DD250 form may be found, in three different formats, on the World Wide Web at <http://webl.whs.osd.mil/icdhome/DD-0999.htm>

[End of Clause]

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SECTION I - CONTRACT CLAUSES

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 address: <http://farsite.hill.af.mil/>

[End of Clause]

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
I-1	52.202-1	DEFINITIONS	JUL/2004
I-2	52.203-3	GRATUITIES	APR/1984
I-3	52.203-5	COVENANT AGAINST CONTINGENT FEES	APR/1984
I-4	52.203-6	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT	JUL/1995
I-5	52.203-7	ANTI-KICKBACK PROCEDURES	JUL/1995
I-6	52.203-8	CANCELLATION, RESCISSION AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY	JAN/1997
I-7	52.203-10	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY	JAN/1997
I-8	52.203-12	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS	JUN/2003
I-9	52.204-4	PRINTING/COPYING DOUBLE-SIDED ON RECYCLED PAPER	AUG/2000
I-10	52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT	JUL/1995
I-11	52.211-5	MATERIAL REQUIREMENTS	AUG/2000
I-12	52.211-15	DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS	SEP/1990
I-13	52.215-2	AUDIT AND RECORDS - NEGOTIATIONS	JUN/1999
I-14	52.215-8	ORDER OF PRECEDENCE--UNIFORM CONTRACT FORMAT	OCT/1997
I-15	52.215-10	PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA	OCT/1997
I-16	52.215-12	SUBCONTRACTOR COST OR PRICING DATA	OCT/1997
I-17	52.215-14	INTEGRITY OF UNIT PRICES (ALTERNATE I, (OCT 1997))	OCT/1997
I-18	52.215-15	PENSION ADJUSTMENTS AND ASSET REVERSIONS	JAN/2004
I-19	52.215-17	WAIVER OF FACILITIES CAPITAL COST OF MONEY	OCT/1997
I-20	52.215-18	REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS (PRB) OTHER THAN PENSIONS	OCT/1997
I-21	52.215-19	NOTIFICATION OF OWNERSHIP CHANGES	OCT/1997
I-22	52.216-7	ALLOWABLE COST AND PAYMENT	DEC/2002
I-23	52.216-8	FIXED FEE	MAR/1997
I-24	52.219-6	NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE	JUN/2003
I-25	52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS	MAY/2004
I-26	52.219-14	LIMITATIONS ON SUBCONTRACTING	DEC/1996
I-27	52.222-1	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES	FEB/1997
I-28	52.222-4	CONTRACT WORK HOURS AND SAFETY STANDARDS ACT--OVERTIME COMPENSATION	SEP/2000
I-29	52.222-19	CHILD LABOR--COOPERATION WITH AUTHORITIES AND REMEDIES	JUN/2004
I-30	52.222-20	WALSH-HEALEY PUBLIC CONTRACTS ACT	DEC/1996
I-31	52.222-21	PROHIBITION OF SEGREGATED FACILITIES	FEB/1999
I-32	52.222-26	EQUAL OPPORTUNITY	APR/2002
I-33	52.222-35	AFFIRMATIVE ACTION FOR DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA	DEC/2001
I-34	52.222-36	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES	JUN/1998
I-35	52.222-37	EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS	DEC/2001
I-36	52.223-5	POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION	AUG/2003
I-37	52.223-6	DRUG FREE WORKPLACE	MAY/2001
I-38	52.223-14	TOXIC CHEMICAL RELEASE REPORTING	AUG/2003
I-39	52.225-8	DUTY-FREE ENTRY	FEB/2000
I-40	52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES	JAN/2004
I-41	52.227-1	AUTHORIZATION AND CONSENT (ALTERNATE I dated April 1984)	JUL/1995
I-42	52.227-2	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT	AUG/1996
I-43	52.227-11	PATENT RIGHTS--RETENTION BY THE CONTRACTOR (SHORT FORM)	JUN/1997
I-44	52.228-7	INSURANCE--LIABILITY TO THIRD PERSONS	MAR/1996
I-45	52.232-9	LIMITATION ON WITHHOLDING OF PAYMENTS	APR/1984
I-46	52.232-17	INTEREST	JUN/1996
I-47	52.232-22	LIMITATION OF FUNDS	APR/1984
I-48	52.232-23	ASSIGNMENT OF CLAIMS	JAN/1986
I-49	52.232-25	PROMPT PAYMENT	OCT/2003
I-50	52.232-33	PAYMENT BY ELECTRONIC FUNDS TRANSFER--CENTRAL CONTRACTOR REGISTRATION	OCT/2003

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I-51	52.233-1	DISPUTES	JUL/2002
I-52	52.233-3	PROTEST AFTER AWARD -- (ALTERNATE I, dated JUN 1985)	AUG/1996
I-53	52.242-1	NOTICE OF INTENT TO DISALLOW COSTS	APR/1984
I-54	52.242-3	PENALTIES FOR UNALLOWABLE COSTS	MAY/2001
I-55	52.242-4	CERTIFICATION OF INDIRECT COSTS	JAN/1997
I-56	52.242-13	BANKRUPTCY	JUL/1995
I-57	52.243-2	CHANGES--COST-REIMBURSEMENT (ALTERNATE V, dated April 1984))	AUG/1987
I-58	52.244-2	SUBCONTRACTS (ALT I--AUG 1998)	AUG/1998
I-59	52.244-5	COMPETITION IN SUBCONTRACTING	DEC/1996
I-60	52.245-5	GOVERNMENT PROPERTY (COST-REIMBURSEMENT, TIME-AND-MATERIAL, OR LABOR-HOUR CONTRACTS) (Deviation, per DAR Tracking Number 99-00008, 13 July 99)	MAY/2004
I-61	52.246-23	LIMITATION OF LIABILITY	FEB/1997
I-62	52.249-6	TERMINATION (COST-REIMBURSEMENT)	MAY/2004
I-63	52.249-14	EXCUSABLE DELAYS	APR/1984
I-64	52.253-1	COMPUTER GENERATED FORMS	JAN/1991
I-65		*** THIS REFERENCE (IA0812) IS NO LONGER VALID ***	
I-66	252.203-7001	PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER DEFENSE CONTRACT-RELATED FELONIES	MAR/1999
I-67	252.204-7003	CONTROL OF GOVERNMENT PERSONNEL WORK PRODUCT	APR/1992
I-68	252.209-7000	ACQUISITION FROM SUBCONTRACTORS SUBJECT TO ON-SITE INSPECTION UNDER THE INTERMEDIATE-RANGE NUCLEAR FORCES (INF) TREATY	NOV/1995
I-69	252.209-7004	SUBCONTRACTING WITH FIRMS THAT ARE OWNED OR CONTROLLED BY THE GOVERNMENT OF A TERRORIST COUNTRY per DoD interim rule, Federal Register 27 Mar 98	MAR/1998
I-70	252.211-7005	SUBSTITUTIONS FOR MILITARY OR FEDERAL SPECIFICATIONS AND STANDARDS	FEB/2003
I-71	252.215-7000	PRICING ADJUSTMENTS	DEC/1991
I-72	252.215-7002	COST ESTIMATING SYSTEM REQUIREMENTS	OCT/1998
I-73	252.225-7012	PREFERENCE FOR CERTAIN DOMESTIC COMMODITIES	JUN/2004
I-74	252.225-7014	PREFERENCE FOR DOMESTIC SPECIALTY METALS (ALT 1)	APR/2003
I-75	252.225-7016	RESTRICTION ON ACQUISITION OF BALL AND ROLLER BEARINGS	MAY/2004
I-76	252.225-7025	RESTRICTION ON ACQUISITION OF FORGINGS	APR/2003
I-77	252.225-7031	SECONDARY ARAB BOYCOTT OF ISRAEL	APR/2003
I-78	252.227-7016	RIGHTS IN BID OR PROPOSAL INFORMATION	JUN/1995
I-79	252.227-7017	IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS	JUN/1995
I-80	252.227-7018	RIGHTS IN NONCOMMERCIAL TECHNICAL DATA AND COMPUTER SOFTWARE-- SMALL BUSINESS INNOVATIVE RESEARCH (SBIR) PROGRAM	JUN/1995
I-81	252.227-7019	VALIDATION OF ASSERTED RESTRICTIONS--COMPUTER SOFTWARE	JUN/1995
I-82	252.227-7025	LIMITATIONS ON THE USE OR DISCLOSURE OF GOVERNMENT-FURNISHED INFORMATION MARKED WITH RESTRICTIVE LEGENDS	JUN/1995
I-83	252.227-7028	TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT	JUN/1995
I-84	252.227-7030	TECHNICAL DATA--WITHHOLDING OF PAYMENT	MAR/2000
I-85	252.227-7034	PATENTS--SUBCONTRACTS	APR/1984
I-86	252.227-7036	DECLARATION OF TECHNICAL DATA CONFORMITY	JAN/1997
I-87	252.242-7000	POSTAWARD CONFERENCE	DEC/1991
I-88	252.243-7002	REQUESTS FOR EQUITABLE ADJUSTMENT	MAR/1998
I-89	252.244-7000	SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS (DoD CONTRACTS)	MAR/2000
I-90	52.222-2	PAYMENT FOR OVERTIME PREMIUMS	JUL/1990

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed zero or the overtime premium is paid for work--

- (1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdown of production equipment, or occasional production bottlenecks of a sporadic nature;
- (2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;
- (3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or
- (4) That will result in lower overall costs to the Government.

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(b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall--

(1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;

(2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;

(3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and

(4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

(End of clause)

I-91

52.243-7

NOTIFICATION OF CHANGES

APR/1984

(a) Definitions. Contracting Officer, as used in this clause, does not include any representative of the Contracting Officer. Specifically authorized representative (SAR), as used in this clause, means any person the Contracting Officer has so designated by written notice (a copy of which shall be provided to the Contractor) which shall refer to this subparagraph and shall be issued to the designated representative before the SAR exercises such authority.

(b) Notice. The primary purpose of this clause is to obtain prompt reporting of Government conduct that the Contractor considers to constitute a change to this contract. Except for changes identified as such in writing and signed by the Contracting Officer, the Contractor shall notify the Administrative Contracting Officer in writing promptly, within 30 calendar days from the date that the Contractor identifies any Government conduct (including actions, inactions, and written or oral communications) that the Contractor regards as a change to the contract terms and conditions. On the basis of the most accurate information available to the Contractor, the notice shall state--

(1) the date, nature, and circumstances of the conduct regarded as a change;

(2) The name, function, and activity of each Government individual and Contractor official or employee involved in or knowledgeable about such conduct;

(3) The identification of any documents and the substance of any oral communication involved in such conduct;

(4) In the instance of alleged acceleration of scheduled performance or delivery, the basis upon which it arose;

(5) The particular elements of contract performance for which the Contractor may seek an equitable adjustment under this clause, including--

(i) What contract line items have been or may be affected by the alleged change;

(ii) What labor or materials or both have been or may be added, deleted, or wasted by the alleged change;

(iii) To the extent practicable, what delay and disruption in the manner and sequence of performance and effect on continued performance have been or may be caused by the alleged change;

(iv) What adjustments to contract price, delivery schedule, and other provisions affected by the alleged change are estimated; and

(6) The Contractor's estimate of the time by which the Government must respond to the Contractor's notice to minimize cost, delay or disruption of performance.

(c) Continued performance. Following submission of the notice required by (b) above, the Contractor shall diligently continue performance of this contract to the maximum extent possible in accordance with its terms and conditions as construed by the Contractor, unless the notice reports a direction of the Contracting Officer or a communication from a SAR of the Contracting Officer, in either of which events the Contractor shall continue performance; provided, however, that if the Contractor regards the direction or communication as a change as described in (b) above, notice shall be given in the manner provided. All directions, communications, interpretations, orders, and similar actions of the SAR shall be reduced to writing promptly and copies furnished to the Contractor and the Contracting Officer. The Contracting Officer shall promptly countermand any action which exceeds the authority of the SAR.

(d) Government response. The Contracting Officer shall promptly, within 30 calendar days after receipt of notice, respond to the notice in writing. In responding, the Contracting Officer shall either--

(1) Confirm that the conduct of which the Contractor gave notice constitutes a change and when necessary direct the mode of

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further performance;

(2) Countermand any communication regarded as a change;

(3) Deny that the conduct of which the Contractor gave notice constitutes a change and when necessary direct the mode of further performance; or

(4) In the event the Contractor's notice information is inadequate to make a decision under (1), (2), or (3) above, advise the Contractor what additional information is required, and establish the date by which it should be furnished and the date thereafter by which the Government will respond.

(e) Equitable adjustments.

(1) If the Contracting Officer confirms that Government conduct effected a change as alleged by the Contractor, and the conduct causes an increase or decrease in the Contractor's cost of, or the time required for, performance of any part of the work under this contract, whether changed or not changed by such conduct, an equitable adjustment shall be made--

(i) In the contract price or delivery schedule or both; and

(ii) In such other provisions of the contract as may be affected.

(2) The contract shall be modified in writing accordingly. In the case of drawings, designs or specifications which are defective and for which the Government is responsible, the equitable adjustment shall include the cost and time extension for delay reasonably incurred by the Contractor in attempting to comply with the defective drawings, designs or specifications before the Contractor identified, or should have identified, such defect. When the cost of property made obsolete or excess as a result of a change confirmed by the Contracting Officer under this clause is included in the equitable adjustment, the Contracting Officer shall have the right to prescribe the manner of disposition of the property. The equitable adjustment shall not include increased costs or time extensions for delay resulting from the Contractor's failure to provide notice or to continue performance as provided, respectively, in (b) and (c) above.

NOTE: The phrases contract price and cost wherever they appear in the clause, may be appropriately modified to apply to cost-reimbursement or incentive contracts, or to combinations thereof.

[End of Clause]

I-92

52.219-4

NOTICE OF PRICE EVALUATION FOR HUBZONE SMALL BUSINESS CONCERNS

JAN/1999

(a) Definition. HUBZone small business concern, as used in this clause, means a small business concern that appears on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration.

(b) Evaluation preference.

(1) Offers will be evaluated by adding a factor of 10 percent to the price of all offers, except--

(i) Offers from HUBZone small business concerns that have not waived the evaluation preference;

(ii) Otherwise successful offers from small business concerns;

(iii) Otherwise successful offers of eligible products under the Trade Agreements Act when the dollar threshold for application of the Act is exceeded (see 25.402 of the Federal Acquisition Regulation (FAR)); and

(iv) Otherwise successful offers where application of the factor would be inconsistent with a Memorandum of Understanding or other international agreement with a foreign government.

(2) The factor of 10 percent shall be applied on a line item basis or to any group of items on which award may be made. Other evaluation factors described in the solicitation shall be applied before application of the factor.

(3) A concern that is both a HUBZone small business concern and a small disadvantaged business concern will receive the benefit of both the HUBZone small business price evaluation preference and the small disadvantaged business price evaluation adjustment (see FAR clause 52.219-23). Each applicable price evaluation preference or adjustment shall be calculated independently against an offeror's base offer. These individual preference amounts shall be added together to arrive at the total evaluated price for that offer.

(c) Waiver of evaluation preference. A HUBZone small business concern may elect to waive the evaluation preference, in which case the factor will be added to its offer for evaluation purposes. The agreements in paragraph (d) of this clause do not apply if the

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offeror has waived the evaluation preference.

[] Offer elects to waive the evaluation preference.

(d) Agreement. A HUBZone small business concern agrees that in the performance of the contract, in the case of a contract for

(1) Services (except construction), at least 50 percent of the cost of personnel for contract performance will be spent for employees of the concern or employees of other HUBZone small business concerns;

(2) Supplies (other than procurement from a nonmanufacturer of such supplies), at least 50 percent of the cost of manufacturing, excluding the cost of materials, will be performed by the concern or other HUBZone small business concerns;

(3) General construction, at least 15 percent of the cost of the contract performance incurred for personnel will be spent on the concern's employees or the employees of other HUBZone small business concerns;

(4) Construction by special trade contractors, at least 25 percent of the cost of the contract performance incurred for personnel will be spent on the concern's employees or the employees of other HUBZone small business concerns.

(e) A HUBZone joint venture agrees that in the performance of the contract, the applicable percentage specified in paragraph (d) of this clause will be performed by the HUBZone small business participant or participants;

(f) A HUBZone small business concern nonmanufacturer agrees to furnish in performing this contract only end items manufactured or produced by HUBZone small business manufacturer concerns. This paragraph does not apply in connection with construction or service contracts.

[End of Clause]

I-93

52.223-11

OZONE-DEPLETING SUBSTANCES

MAY/2001

(a) Definition. Ozone-depleting substance, as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR part 82 as--

(1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or

(2) Class II, including but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j(b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

WARNING: Contains (or manufactured with, if applicable) _____ * _____, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

*The Contractor shall insert the name of the substance(s).

[End of Clause]

I-94

52.244-6

SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS

JUL/2004

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

(1) "Commercial item" has the meaning contained in Federal Acquisition Regulation 2.101, Definitions.

(2) "Subcontract," as used in this clause, includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

(b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of items to be supplied under this contract.

(c)

(1) The contractor shall insert the following clauses in subcontracts for commercial items:

(i) 52.219-8, Utilization of Small Business Concerns (May 2004)(15U.S.C. 637(d)(2) and (3)), in all subcontracts that

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offer subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$500,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(ii) 52.222-26, Equal Opportunity (APR 2002)(E.O. 11246);

(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001) (38 U.S.C. 4212(a));

(iv) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998)(29 U.S.C. 793);

(v) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (APR 2003) (46 U.S.C. Appx 1241 and 10 U.S.C. 2631) (flow down required in accordance with paragraph (d) of FAR clause 52.247-64).

(2) While not required, the Contractor may flow down to subcontracts for commercial items a minimum number of additional clauses necessary to satisfy its contractual obligations.

(d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

[End of Clause]

I-95 52.252-6 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 DoD FAR Supplement (DFARS) (48 CFR 2) clause with an authorized deviation is indicated by the addition of (DEVIATION) after the name of the regulation.

[End of Clause]

I-96 252.204-7004 ALTERNATE A NOV/2003

As prescribed in 204.1104, substitute the following paragraph (a) for paragraph (a) of the clause at FAR 52.204-7:

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

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

"Commercial and Government Entity (CAGE) code" means--

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

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

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

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

"Registered in the CCR database" means that--

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

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

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(3) The Government has validated all mandatory data fields and has marked the records "Active."

[End of Clause]

I-97 252.225-7015 RESTRICTION ON ACQUISITION OF HAND OR MEASURING TOOLS APR/2003
Hand or measuring tools delivered under this contract shall be produced in the United States or its possessions.

(End of clause)

I-98 252.247-7023 TRANSPORTATION OF SUPPLIES BY SEA MAY/2002

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

(1) Components means articles, materials, and supplies incorporated directly into end products at any level of manufacture, fabrication, or assembly by the Contractor or any subcontractor.

(2) Department of Defense (DoD) means the Army, Navy, Air Force, Marine Corps, and defense agencies.

(3) Foreign flag vessel means any vessel that is not a U.S.-flag vessel.

(4) Ocean transportation means any transportation aboard a ship, vessel, boat, barge, or ferry through international waters.

(5) Subcontractor means a supplier, materialman, distributor, or vendor at any level below the prime contractor whose contractual obligation to perform results from, or is conditioned upon, award of the prime contract and who is performing any part of the work or other requirement of the prime contract. However, effective May 1, 1996, the term does not include a supplier, materialman, distributor, or vendor of commercial items or commercial components.

(6) Supplies means all property, except land and interests in land, that is clearly identifiable for eventual use by or owned by the DoD at the time of transportation by sea.

(i) An item is clearly identifiable for eventual use by the DoD if, for example, the contract documentation contains a reference to a DoD contract number or a military destination.

(ii) Supplies includes (but is not limited to) public works; buildings and facilities; ships; floating equipment and vessels of every character, type, and description, with parts, subassemblies, accessories, and equipment; machine tools; material; equipment; stores of all kinds; end items; construction materials; and components of the foregoing.

(7) U.S.-flag vessel means a vessel of the United States or belonging to the United States, including any vessel registered or having national status under the laws of the United States.

(b)

(1) The Contractor shall use U.S.-flag vessels when transporting any supplies by sea under this contract.

(2) A subcontractor transporting supplies by sea under this contract shall use U.S.-flag vessels if-

(i) This contract is a construction contract; or

(ii) The supplies being transported are-

(A) Noncommercial items; or

(B) Commercial items that-

(1) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it subcontracts for f.o.b. destination shipment);

(2) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or

CONTINUATION SHEET**Reference No. of Document Being Continued**

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Name of Offeror or Contractor: LINK ENGINEERING COMPANY

(3) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

(c) The Contractor and its subcontractors may request that the Contracting Officer authorize shipment in foreign-flag vessels, or designate available U.S.-flag vessels, if the Contractor or a subcontractor believes that--

- (1) U.S.-flag vessels are not available for timely shipment;
- (2) The freight charges are inordinately excessive or unreasonable; or
- (3) Freight charges are higher than charges to private persons for transportation of like goods.

(d) The Contractor must submit any request for use of other than U.S.-flag vessels in writing to the Contracting Officer at least 45 days prior to the sailing date necessary to meet its delivery schedules. The Contracting Officer will process requests submitted after such date(s) as expeditiously as possible, but the Contracting Officer's failure to grant approvals to meet the shipper's sailing date will not of itself constitute a compensable delay under this or any other clause of this contract. Requests shall contain at a minimum--

- (1) Type, weight, and cube of cargo;
- (2) Required shipping date;
- (3) Special handling and discharge requirements;
- (4) Loading and discharge points;
- (5) Name of shipper and consignee;
- (6) Prime contract number; and

(7) A documented description of efforts made to secure U.S.-flag vessels, including points of contact (with names and telephone numbers) with at least two U.S.-flag carriers contacted. Copies of telephone notes, telegraphic and facsimile message or letters will be sufficient for this purpose.

(e) The Contractor shall, within 30 days after each shipment covered by this clause, provide the Contracting Officer and the Division of National Cargo, Office of Market Development, Maritime Administration, U.S. Department of Transportation, Washington, DC 20590, one copy of the rated on board vessel operating carrier's ocean bill of lading, which shall contain the following information--

- (1) Prime contract number;
- (2) Name of vessel;
- (3) Vessel flag of registry;
- (4) Date of loading;
- (5) Port of loading;
- (6) Port of final discharge;
- (7) Description of commodity;
- (8) Gross weight in pounds and cubic feet if available;
- (9) Total ocean freight in U.S. dollars; and
- (10) Name of the steamship company.

(f) The Contractor shall provide with its final invoice under this contract a representation that to the best of its knowledge and belief--

- (1) No ocean transportation was used in the performance of this contract;
- (2) Ocean transportation was used and only U.S.-flag vessels were used for all ocean shipments under the contract;

CONTINUATION SHEET**Reference No. of Document Being Continued**

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MOD/AMD

Name of Offeror or Contractor: LINK ENGINEERING COMPANY

(3) Ocean transportation was used, and the Contractor had the written consent of the Contracting Officer for all non-U.S.-flag ocean transportation; or

(4) Ocean transportation was used and some or all of the shipments were made on non-U.S.-flag vessels without the written consent of the Contracting Officer. The Contractor shall describe these shipments in the following format:

ITEM DESCRIPTION	CONTRACT LINE ITEMS	QUANTITY	TOTAL
---------------------	------------------------	----------	-------

(g) If the final invoice does not include the required representation, the Government will reject and return it to the Contractor as an improper invoice for the purposes of the Prompt Payment clause of this contract. In the event there has been unauthorized use of non-U.S.-flag vessels in the performance of this contract, the Contracting Officer is entitled to equitably adjust the contract, based on the unauthorized use.

(h) In the award of subcontracts for the types of supplies described in paragraph (b)(2) of this clause, the Contractor shall flow down the requirements of this clause as follows:

(1) The Contractor shall insert the substance of this clause, including this paragraph (h) in all subcontracts that exceed the simplified acquisition threshold in Part 2 of the Federal Acquisition Regulation.

(2) The Contractor shall insert the substance of paragraphs (a) through (e) of this clause, and this paragraph (h), in subcontracts that are at or below the simplified acquisition threshold in Part 2 of the Federal Acquisition Regulation.

[End of Clause]

I-99	252.247-7024	NOTIFICATION OF TRANSPORTATION OF SUPPLIES BY SEA	MAR/2000
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(a) The Contractor has indicated by the response to the solicitation provision, Representation of Extent of Transportation by Sea, that it did not anticipate transporting by sea any supplies. If however, after the award of this contract, the Contractor learns that supplies, as defined in the Transportation of Supplies by Sea clause of this contract, will be transported by sea, the Contractor--

(1) Shall notify the Contracting Officer of that fact; and

(2) Hereby agrees to comply with all the terms and conditions of the Transportation of Supplies by Sea clause of this contract.

(b) The Contractor shall include this clause, including this paragraph (b), revised as necessary to reflect the relationship of the contracting parties

(1) In all subcontracts hereunder, if this contract is a construction contract; or

(2) If this contract is not a construction contract, in all subcontracts under this contract that are for--

(i) Noncommercial items; or

(ii) Commercial items that--

(A) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it subcontracts for f.o.b. destination shipment);

(B) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or

(C) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

[End of Clause]

I-100	52.204-4009 (TACOM)	MANDATORY USE OF CONTRACTOR TO GOVERNMENT ELECTRONIC COMMUNICATION	JUN/1999
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(a) All references in the contract to the submission of written documentation shall mean electronic submission. All electronic submissions shall be in the formats and media described in the "Electronic Quotations/Offers/Bids Required in Response to this Request

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN W56HZV-04-C-0024 MOD/AMD	Page 25 of 26
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Name of Offeror or Contractor: LINK ENGINEERING COMPANY

for Quotations/Proposals/Bids" clause elsewhere in this document. (See Section K for commercial acquisitions, Section L for RFPs, and Section I for RFQs.)

(b) This shall include all written unclassified communications between the Government and the Contractor except contract awards and contract modifications which shall be posted on the internet. Return receipt shall be used if a commercial application is available. Classified information shall be handled in full accordance with the appropriate security requirements.

(c) In order to be contractually binding, all Government communications requiring a Contracting Officer signature must be sent from the Contracting Officer's e-mail address. The Contractor shall designate the personnel with signature authority who can contractually bind the contractor. All binding contractor communication shall be sent from this contractor e-mail address(es).

(d) Upon award, the Contractor shall provide the Contracting Officer with a list of e-mail addresses for all administrative and technical personnel assigned to this contract.

(e) Unless exempted by the Procuring Contracting Officer in writing, all unclassified written communication after contract award shall be transmitted electronically.

[End of Clause]

CONTINUATION SHEET

Reference No. of Document Being Continued

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MOD/AMD

Name of Offeror or Contractor: LINK ENGINEERING COMPANY

SECTION J - LIST OF ATTACHMENTS

<u>List of</u> <u>Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number</u> <u>of Pages</u>	<u>Transmitted By</u>
Attachment 001	CONTRACT DATA REQUIREMENT LIST (DD 1423)	12-NOV-2003	006	

CONTRACT DATA REQUIREMENT LIST

Form Approval OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours 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 this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.: 0002
B. EXHIBIT: A
C. CATEGORY.....:
D. SYSTEM/ITEM.....:
E. CONTRACT/PR NO.: W56HZV-04-C-0024
F. CONTRACTOR.....: Link Engineering

1. DATA ITEM NO.....: A001
2. TITLE OF DATA ITEM.: Contractor's Progress, Status, and Management Report
3. SUBTITLE.....: Phase II Progress Reports
4. AUTHORITY.....: DI-MGMT-80227
5. CONTRACT REFERENCE.: Section C.6.1
6. REQUIRING OFFICE...:
7. DD250 REQ.....: 9. DIST. STATEMENT REQUIRED.:
8. APP CODE.....: 10. FREQUENCY.....: See Block 16
11. AS OF DATE.....: See Block 16
12. DATE OF FIRST SUB.: See Block 16
13. DATE OF SUBS. SUB.: See Block 16

14. DISTRIBUTION		A. ADDRESSEES		B. COPIES:		DRAFT	FINAL
Mr. Jose R. Mabesa, Jr.	Contracting Officer's Representative (COR),	E-mail:	mabesajo@tacom.army.mil				1
Mr. Douglas Schroeder,	Contract Specialist,	E-Mail:	schroedd@tacom.army.mil				1
Carrie Zunk,	Administrative Contracting Officer (ACO),	E-mail:	carrie.zunk@dcma.mil				1
						15. TOTAL:	1 *

* In distributing the electronic report, according to the schedule in Block 16 below, the Contractor shall deliver one (1) copy to the Government, sent to Jose R. Mabesa, Jr., Douglas Schroeder and Carrie Zunk e-mail addresses.

16. REMARKS:

a. The Contractor shall deliver quarterly progress reports. The first report by ninety (90) days after the contract award date.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-MGMT-80227, "Contractor's Progress, Status, and Management Report." The COR is responsible for accepting or rejecting the "Contractor's Progress, Status, and Management Reports." See DID DI-MGMT-80227, at the Internet address below, for instructions on completing the required report.

<http://astimage.daps.dla.mil/docimages/0001\48\17\DI80227.PD8>

c. Prepare the reports in the Contractor's format. Submit the reports using any of the following electronic formats:

(1) Files readable using Microsoft Office XP or Microsoft 97 Office Products: Word, Excel, PowerPoint, or Access. Spreadsheet documents must be sent in a format that includes all formulae, macro and format information. Print or scan images of spreadsheets are not acceptable. Executable files are unacceptable.

(2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

(3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic report, and be accessible offline.

(4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idg@tacom.army.mil, to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the draft report's due date. All alternate methods must be a no cost to the Government.

NOTES: (a) The above formats may be submitted in compressed form using self-extracting files.

(b) Files may be read-only, password protected.

d. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip*-disk, 3 inch disk, or 650 megabyte CD-ROM. Identify the software application and version used to create each file submitted.

(1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Any compressed files must be self-extracting, and you must provide appropriate instructions. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

(2) 100 or 250 MEGABYTE ZIP*-DISK, 3 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label and all submitted disks with the Contract number, the Contractor's name, address and a contact's phone number.

NOTE: Please select only one medium by which to transmit each report. For instance, do not submit a report via e-mail and 100 megabyte Zip*-disk.

* Registered Trademark

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE :

1. DATA ITEM NO.: A002
2. TITLE OF DATA ITEM.: Scientific and Technical Reports
3. SUBTITLE : Phase II Draft and Final Technical Reports
4. AUTHORITY: DI-MISC-80711A
5. CONTRACT REFERENCE: Section C.6.2
6. REQUIRING OFFICE...: AMSTA-TR-R
9. DIST. STATEMENT REQUIRED.:
12. DATE OF FIRST SUB.: See Block 16
7. DD250 REQ.....: DD
10. FREQUENCY.....: See Block 16
13. DATE OF SUBS. SUB.: See Block 16
8. APP CODE.....:
11. AS OF DATE.....: See Block 16

14. DISTRIBUTION	A. ADDRESSEES	B. COPIES:	DRAFT	FINAL
Mr. Jose R. Mabesa, Jr., Contracting Officer's Representative (COR), E-mail: mabesajo@tacom.army.mil			1	1
Mr. Douglas Schroeder, Contract Specialist, E-Mail: schroedd@tacom.army.mil			1	1
Carrie Zunk, Administrative Contracting Officer (ACO), E-mail: carrie.zunk@dcma.mil				1
		15. TOTAL:	1	1 *

*In distributing electronic copies of the final report, according to the schedule in Block 16 below, the Contractor shall deliver one (1) copy to the Government, sent to Jose R. Mabesa, Jr., Douglas Schroeder and 'ACO- Carrie Zunk' e-mail addresses.

16. REMARKS:

a. The Contractor shall deliver one (1) draft "Scientific and Technical Report," twenty-two (22) months after contract award. The draft report shall include a completed Standard Form (SF) 298 (Report Documentation Page) as the report's cover sheet. The COR shall review the draft report and return it to the Contractor within thirty (30) days of receipt with comments. The Contractor shall submit one (1) final "Scientific and Technical Report" (with the completed SF 298) within thirty (30) days after receipt of draft comments.

c. Complete the reports IAW DID DI-MISC 80711A, "Scientific and Technical Reports." The COR is responsible for accepting or rejecting the draft and final reports, and for submitting the approved final report to the Defense Technical Information Center (DTIC), in Ft. Belvoir, VA. See the data item description (DI-MISC-80711A), at the Internet address below, for instructions on completing the required report.

<http://astimage.daps.dla.mil/docimages/0002\27\88\80711A.PD4>

You may download the SF 298 form, from the following Internet address:

<http://www.dtic.mil/dtic/forms/sf298template.doc>

You may download basic instructions for completing the SF 298 form, from the following Internet address:

http://www.dtic.mil/dtic/forms/SF298_MS67.doc

Here are some additional instructions for completing the SF 298 form, that apply when submitting reports under the SBIR Program:

For each unclassified report, the Contractor shall fill in Block 12a (Distribution/Availability Statement) of the SF 298 with one of the following statements:

(a) Approved for public release; distribution unlimited.

(b) Distribution authorized to U.S. Government Agencies only; contains proprietary information

Note: After reviewing the Contractor's entry in Block 12a, TACOM has final responsibility for assigning a distribution statement.

Block 13 (Abstract) of the SF 298 must include the first sentence, "Report developed under SBIR contract for topic A02-227." The abstract must identify the purpose of the work and briefly describe the work carried out, the finding or results, and the potential applications of the effort. Since the Department of Defense (DOD) will be publishing the abstract, it must not contain any proprietary or classified data.

Block 14 (Subject Terms) of the SF 298 must include the term "SBIR Report."

d. Prepare the reports in the Contractor's format. Submit the reports using any of the following electronic formats:

(1) Files readable using Microsoft Office XP or Microsoft 97 Office Products: Word, Excel, PowerPoint, or Access. Spreadsheet documents must be sent in a format that includes all formulae, macro and format information. Print or scan images of spreadsheets are not acceptable. Executable files are unacceptable.

(2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

(3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic report, and be accessible offline.

(4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, in order to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the draft report's due date. All alternate methods must be a no cost to the Government.

NOTES: (a) The above formats may be submitted in compressed form using self-extracting files.

(b) Files may be read-only, password protected.

e. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip*-disk, 3 inch disk, or 650 megabyte CD ROM. Identify the software application and version used to create each file submitted.

(1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Any compressed files must be self-extracting, and you must provide appropriate instructions. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

(2) 100 or 250 MEGABYTE ZIP*-DISK, 3 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label and all submitted disks with the Contract number, the Contractor's name, address and a contact's phone number.

NOTE: Please select only one medium by which to transmit each report. For instance, do not submit a report via e-mail and 100 megabyte Zip*-disk.

* Registered Trademark

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO.: A003

2. TITLE OF DATA ITEM.: Complete Machine Design Specifications

3. SUBTITLE :

4. AUTHORITY: DI-MISC-80711

5. CONTRACT REFERENCE: Section C.3

6. REQUIRING OFFICE...: AMSTA-TR-R

9. DIST. STATEMENT REQUIRED.:

12. DATE OF FIRST SUB.: See Block 16

7. DD250 REQ.....: DD

10. FREQUENCY.....: See Block 16

13. DATE OF SUBS. SUB.: See Block 16

8. APP CODE.....:

11. AS OF DATE.....: See Block 16

14. DISTRIBUTION

A. ADDRESSEES

B. COPIES:

DRAFT

FINAL

Mr. Jose R. Mabesa, Jr., Contracting Officer's Representative (COR), E-mail: mabesajo@tacom.army.mil	1	1
Mr. Douglas Schroeder, Contract Specialist, E-Mail: schroedd@tacom.army.mil	1	1
Carrie Zunk, Administrative Contracting Officer (ACO), E-mail: carrie.zunk@dcma.mil		1
15. TOTAL:	1	1 *

*In distributing electronic copies of the final report, according to the schedule in Block 16 below, the Contractor shall deliver one (1) copy to the Government, sent to Jose R. Mabesa, Jr., Douglas Schroeder and 'ACO- Carrie Zunk' e-mail addresses.

16. REMARKS:

a. The Contractor shall deliver one complete set of machine design specifications eighteen months after contract award if the Option in Section C.3 is exercised.

<http://astimage.daps.dla.mil/docimages/0002\27\88\80711A.PD4>

You may download the SF 298 form, from the following Internet address:

<http://www.dtic.mil/dtic/forms/sf298template.doc>

You may download basic instructions for completing the SF 298 form, from the following Internet address:

http://www.dtic.mil/dtic/forms/SF298_MS67.doc

Here are some additional instructions for completing the SF 298 form, that apply when submitting reports under the SBIR Program:

For each unclassified report, the Contractor shall fill in Block 12a (Distribution/Availability Statement) of the SF 298 with one of the following statements:

- (a) Approved for public release; distribution unlimited.
- (b) Distribution authorized to U.S. Government Agencies only; contains proprietary information

Note: After reviewing the Contractor's entry in Block 12a, TACOM has final responsibility for assigning a distribution statement.

Block 13 (Abstract) of the SF 298 must include the first sentence, "Report developed under SBIR contract for topic A02-227." The abstract must identify the purpose of the work and briefly describe the work carried out, the finding or results, and the potential applications of the effort. Since the Department of Defense (DOD) will be publishing the abstract, it must not contain any proprietary or classified data.

Block 14 (Subject Terms) of the SF 298 must include the term "SBIR Report."

d. Prepare the reports in the Contractor's format. Submit the reports using any of the following electronic formats:

(1) Files readable using Microsoft Office XP or Microsoft 97 Office Products: Word, Excel, PowerPoint, or Access. Spreadsheet documents must be sent in a format that includes all formulae, macro and format information. Print or scan images of spreadsheets are not acceptable. Executable files are unacceptable.

(2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

(3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic report, and be accessible offline.

(4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, in order to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the draft report's due date. All alternate methods must be a no cost to the Government.

NOTES: (a) The above formats may be submitted in compressed form using self-extracting files.

(b) Files may be read-only, password protected.

e. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip*-disk, 3 inch disk, or 650 megabyte CD ROM. Identify the software application and version used to create each

file submitted.

(1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Any compressed files must be self-extracting, and you must provide appropriate instructions. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

(2) 100 or 250 MEGABYTE ZIP*-DISK, 3 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label and all submitted disks with the Contract number, the Contractor's name, address and a contact's phone number.

NOTE: Please select only one medium by which to transmit each report. For instance, do not submit a report via e-mail and 100 megabyte Zip*-disk.

* Registered Trademark

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO.: A004
2. TITLE OF DATA ITEM.: Presentation Material
3. SUBTITLE :
4. AUTHORITY: DI-ADMN-81373
5. CONTRACT REFERENCE: Section
6. REQUIRING OFFICE...: AMSTA-TR-R 9. DIST. STATEMENT REQUIRED.: 12. DATE OF FIRST SUB.: See Block 16
7. DD250 REQ.....: 10. FREQUENCY.....: See Block 16 13. DATE OF SUBS. SUB.: See Block 16
8. APP CODE.....: 11. AS OF DATE.....: See Block 16
14. DISTRIBUTION A. ADDRESSEES B. COPIES: INITIAL FINAL
Mr. Jose R. Mabesa, Jr., Contracting Officer's Representative (COR), E-mail: mabesajo@tacom.army.mil 1
U.S. ARMY TACOM
AMSTA-TR-N, MS:157 15. TOTAL: 1 1
Warren, MI 48397-5000

16. REMARKS:

a. The Contractor shall deliver one (1) initial 3-panel display board, six-teen (16) months after contract award. The COR shall review the 3-panel display board and communicate any comments to the Contractor within thirty (30) days of receipt 3-panel display board. The Contractor shall deliver one (1) final 3-panel display board upon completion of contract.

b. The presentation material may be publicly displayed at government locations, or at professional or industry trade shows or conferences.

c. Complete the presentation material IAW DID DI-ADMN-81373, "Presentation Material" and insert paragraph 10.3 below.

10.3 Requirement: Contractor shall prepare portable 3-panel display board, approximately 72Wx30H in size.

10.3.1 Left panel to include: Purpose, Problem and Procedure.

10.3.2 Center panel to include: Title, Illustrations/Photos and/or Graphics/Charts.

10.3.3 Right panel to include: Results and Conclusions.

d. See the data item description (DI-ADMIN-81373), at the Internet address below, for instructions on completing the required presentation material.

<http://131.82.253.19/docimages/0001/58/88/81373.PD2>

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE: