



<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>	<b>Page 2 of 10</b>
	PIIN/SIIN W56HZV-11-C-0202	MOD/AMD P00004
<b>Name of Offeror or Contractor:</b> ENDURICA LLC		

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: JUSTIN EAGLE  
 Buyer Office Symbol/Telephone Number: CCTA-ASG/(586)282-9637  
 Type of Contract: Cost Plus Fixed Fee  
 Kind of Contract: Research and Development Contracts  
 Type of Business: Other Small Business Performing in U.S.  
 Surveillance Criticality Designator: C  
 Weapon System: No Identified Army Weapons Systems

\*\*\* End of Narrative A000 \*\*\*

MODIFICATION P00004:

A.13 PURPOSE: The purpose of this bilateral modification is to extend the overall Period of Performance by six (6) months, from thirty (30) months after Base Contract Award to thirty (36) months after Base Contract Award, at no cost. A \$500.00 processing fee will be charged for this period of performance modification.

A.14 SUMMARY OF CONTRACT VALUE CHANGES: As a result of this modification, the total contract value is not changed.

Previous Negotiated Contract Value: \$729,976.00  
 Negotiated Value of This Action: \$ (500.00)  
 Total Negotiated Contract Value: \$729,476.00

Previous Obligated Contract Amount: \$729,976.00  
 Obligated Amount of This Action: \$ (500.00)  
 Total Obligated Contract Amount: \$729,476.00

A.15 SUMMARY OF CONTRACT CHANGES: The following sections of the contract are changed as a result of this modification:

A.15.1. Section B: CLIN 0001 Performance Completion Date is revised to extend 6 months from 07 MAR 2013 to 30 SEP 2014. SubCLIN 000102 will be revised from \$364,988.00 to \$364,488.00 to deduct \$500.00 processing fee.

A.15.2. Section C: Sections C.5.4, C.5.5, C.5.7, and C.5.8 are revised to extend the delivery schedule in accordance with item A.13 above.

A.15.3. Section F: Section F.1.1 is revised to extend the period of performance in accordance with item A.13 above.

A.15.4. Section J: CDRL Data Items A002, A003, A005, and A006 are revised to extend the delivery schedule in accordance with item A.13 above and CDRL Data Items A001, A002, A003, and A004 are revised to update the name of the Contract Specialist.

A.16 OTHER: Except as provided herein, all other terms and conditions remain unchanged.

\*\*\* END OF NARRATIVE A0005 \*\*\*

CONTINUATION SHEET

Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-11-C-0202 MOD/AMD P00004

Name of Offeror or Contractor: ENDURICA LLC

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT						
	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>SERVICES LINE ITEM</u></p> <p>GENERIC NAME DESCRIPTION: ENDURICA-SBIR PH II                      PSC: AZ11                      CLIN CONTRACT TYPE:                      Cost Plus Fixed Fee</p> <p>The contractor shall furnish all the supplies and services to accomplish the tasks specified in Section C - Scope of Work.</p> <p>Est. Cost: \$679,048                      Fixed Fee: \$50,429*                      Total Amount: \$729,476*</p> <p>*Revised by Modification P00004</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></td> <td><u>DATE</u></td> </tr> <tr> <td>001                                      1</td> <td>30-SEP-2014</td> </tr> </table> <p style="text-align: right;">\$            729,476.00</p>	DLVR SCH	PERF COMPL	<u>REL CD</u> <u>QUANTITY</u>	<u>DATE</u>	001                                      1	30-SEP-2014	1	LO		\$ 729,476.00
DLVR SCH	PERF COMPL										
<u>REL CD</u> <u>QUANTITY</u>	<u>DATE</u>										
001                                      1	30-SEP-2014										
000101	<p><u>SERVICES LINE ITEM</u></p> <p>PRON: R302C284R3    PRON AMD: 02    ACRN: AA                      AMS CD: 665502M4000                      (AMOUNT: \$ 364,988.00)</p>										
000102	<p><u>SERVICES LINE ITEM</u></p> <p>PRON: R312C228R3    PRON AMD: 02    ACRN: AB                      AMS CD: 665502M4000                      (AMOUNT: \$ 364,488.00)</p>										

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>	<b>Page 4 of 10</b>
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<b>Name of Offeror or Contractor:</b> ENDURICA LLC		

B.1 ESTIMATED COST & PAYMENT

B.1.1 The ESTIMATED COST for performance of the work required under this contract is stated in Section B under CLIN 0001, which shall constitute the estimated cost for the purpose of the Contract Clause entitled LIMITATION OF FUNDS, FAR 52.232-22.

B.1.2 The contractor will be paid for the fixed fee stated in Section B under CLIN 0001 for the performance of work under the contract and in accordance with the terms of the Contract Clause entitled FIXED FEE, FAR 52.216-8. The fixed fee together with 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.1.3 Allowable cost shall be determined, and payment thereof shall be provided, in accordance with the Contract Clause hereof entitled ALLOWABLE COST AND PAYMENT, FAR 52.216-7.

B.2 PAYMENT

B.2.1 The contractor may submit public vouchers MONTHLY for payment under this contract. The fee will be payable at the time of reimbursement of cost at the same rate to such cost as the total fee of this contract bears to the total estimated cost thereof, 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 fee hereof on an incremental basis as provided for in the following funding schedule and pursuant to the Contract Clause entitled LIMITATION OF FUNDS, FAR 52.232-22. It is estimated that the incremental amounts are sufficient for the performance of work in each of the cited periods. The Government may, at its discretion, allot such funds on an incremental basis within each fiscal year. The contractor shall so plan and execute the work required by this contract as to expend and/or commit funds compatible with the schedule set forth below. Whenever the contractor has reason to believe that the funds allotted to this contract for any fiscal year are either insufficient or excessive for the performance of work required in that fiscal year, the Government shall be so notified.

B.3.2 FUNDING SCHEDULE

<u>Performance Period</u>	<u>Amount</u>
Date of contract award through twelve (12) months after date of contract award	\$364,988.00
Twelve (12) months plus one (1) day after date of contract award through completion of contract	\$364,488.00****
Total	\$729,476.00****

B.4 FUNDS ALLOTTED: The amount of funds currently allotted to this contract is \$729,476.00\*\*\*\*.

B.5 Contract W56HZV-11-C-0202 is fully funded.

\*\*\*\* Revised by Modification P00004

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	PIIN/SIIN W56HZV-11-C-0202	MOD/AMD P00004
<b>Name of Offeror or Contractor:</b> ENDURICA LLC		

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

STATEMENT OF WORK

C.1. Scope: The goal of this project is to develop software for modeling and simulating fatigue failure of elastomer-polymer components of military ground vehicles, with a primary focus on rubber track components. The final software shall include the ability to model and simulate the following:

C.1.1. Duty cycles of rubber components with multi-axial, variable-amplitude, dynamic loading conditions;

C.1.2. Unique material characteristics of rubber, including temperature effects; and

C.1.3. Self-heating of rubber due to dynamic loading.

C.2. Background:

C.2.1. Elastomer-polymer materials are used for many military ground vehicle components in a variety of engineering applications, such as tires. Of the various elastomer-polymer components, rubber components within track systems, such as backer pads and bushings, are the primary maintenance and cost drivers for military tracked vehicles for two reasons. First, rubber track components have shorter fatigue lifetimes than most other track components. Second, rubber components are critical to the performance of military tracked vehicles if a rubber component fails, or is about to fail, the track system must be repaired before the vehicle can resume operation. Therefore, the reliability, availability, and maintainability of military tracked vehicles are dependent upon the durability of said rubber components.

C.2.2. Currently, no commercial or government software exists that can accurately predict the fatigue life of rubber components used in military tracked vehicles. This is partly due to the fact that rubber features complex and highly nonlinear material response characteristics and partly due to the high loads and temperatures that rubber components experience during military tracked vehicle duty cycles. While modeling and simulation software can be used to assess and improve the design of metallic components for increasing fatigue life, this is not true for rubber components. Instead, rubber component improvements are typically made by performing numerous laboratory and field tests on multiple prototypes of various designs, which is a costly and time-consuming process.

C.2.3. During this effort, the contractor shall develop and validate modeling and simulation software for predicting the fatigue life of rubber components .

C.3. Definitions:

C.3.1. The fatigue life modeling and simulation software developed under previous work by the contractor, including the Phase I effort for this SBIR project, will be referred to herein as the software.

C.3.2. The Abaqus commercial finite element analysis (FEA) software will be referred to herein as Abaqus.

C.4. Tasks: The contractor shall perform the following tasks, independent of government supervision or control:

C.4.1. The contractor shall modify the software by adding the capability to represent the effects of temperature changes on material parameters as a function of temperature values, following a scheme consistent with the tabular function format used in Abaqus. At a minimum, the software shall include temperature-dependent material parameters of the hyperelastic stress-strain algorithms. The software shall allow for the tabular function to be generated by reading in an external data file.

C.4.2. The contractor shall add an algorithm to the software for calculating the increase in the temperature of a rubber component from the internal heat generation that occurs when dynamic loading conditions are applied to said component.

C.4.3. The contractor shall modify the software by establishing an interface to feed strain history results directly from one (1) or more files in the Abaqus Output Database (ODB) file format to the software.

C.4.4. The contractor shall modify the software by establishing an interface to export fatigue life results directly from the software to one (1) or more files in the Abaqus ODB file format.

C.4.5. The contractor shall modify the software so that graphical plots of material parameters used in the modeling algorithms can be generated. At a minimum, the software shall be capable of generating a set of separate, two-dimensional plots for each material property versus each independent variable.

C.4.6. The contractor shall add a material database capability to the software so that the modeling and simulation parameters

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required for a given rubber material can be saved, stored, and retrieved for future use. For each material in said database, the source of the material properties (e.g., journal article or test report) shall be cited with the data for that material.

C.4.7. The contractor shall modify the software to include the capability to generate graphical plots, which summarize the fatigue failure events predicted for each simulated loading case. The output data shown in the plots shall display the ranking of each fatigue failure event according to its relative contribution to the overall damage and the times at which each event reached its maximum and minimum loading extremes.

C.4.8. The contractor shall develop testing procedures required for experimentally determining the material properties that are required by the software for predicting fatigue life. At a minimum, the experimentally determined material properties shall include the effects of mechanical fatigue threshold, initial flaw size, and temperature on the tested material.

C.4.9. The contractor shall validate the software by comparing fatigue life predictions from the software to experimental fatigue test results of a rubber track component, similar to a track backer pad used on military tracked vehicles.

C.4.9.1. The contractor shall perform experimental fatigue life testing of said rubber component and use the results to determine the effects of variations in testing parameters on the fatigue life. These testing parameters shall include the maximum load, the loading rate, and the operating temperature of the rubber component. The contractor shall perform no fewer than five (5) tests for each parameter.

C.4.9.2. The contractor shall record the testing setup and procedure in the Scientific and Technical report, in accordance with Deliverable C.5.5. At a minimum, the (component geometry and material properties, the test equipment and fixturing, and the loading conditions shall be recorded.

C.4.9.3. For each fatigue life test in Task C.4.9.1, the contractor shall create and run a finite element simulation with the software. The contractor shall record these simulation results and compare them to the test results from task C.4.9.1 within the Scientific and Technical report, in accordance with Deliverable C.5.5.

C.5. Deliverables/Performance:

C.5.1. Teleconferences: The contractor shall hold monthly teleconferences with the Contracting Officers Representative (COR) to discuss progress status on this contract. The first teleconference shall be held no later than 30 days after contract award. Subsequent teleconferences shall be held on a monthly basis thereafter.

C.5.2. Project Status Briefings and Software Demonstrations: The contractor shall hold a meeting with the COR once every six (6) months. During said meetings, the contractor shall present a briefing on project status and demonstrate the latest version of the software. The first meeting shall be held no later than six (6) months after contract award. Subsequent meetings shall be held once every six (6) months thereafter. The contractor shall provide a copy of the briefing materials as part of the Contractors Progress Status and Management Report (see C.5.3) for the month in which the meeting was held.

C.5.3. Contractor's Progress Status and Management Report: The contractor shall submit monthly Contractor's Progress Status and Management Reports in accordance with CDRL Data Item number A001. The first report shall be submitted no later than 30 days after contract award. Subsequent reports shall be submitted on a monthly basis thereafter.

C.5.4. Research and Development (R&D) Project Summary: The Contractor shall deliver one (1) draft R&D Project Summary no later than twenty-nine (35)\*\*\* months after contract award and in accordance with CDRL Data Item number A002. The COR will review the draft report and return it with comments to the Contractor within fifteen (15) days of receipt. The Contractor shall submit the final R&D Project Summary within 15 days after receipt of draft.

C.5.5. Scientific and Technical Report: The contractor shall submit a draft of the Final Technical Report no later than thirty-four (34)\*\*\* months after contract award and in accordance with CDRL Data Item number A003. The COR will review and respond within thirty (30) days of receipt. The contractor shall submit the Final Technical Report within thirty (30) days after receipt of draft comments/approval.

C.5.6. Performance and Cost Report: The contractor shall submit monthly Performance and Cost Reports in accordance with CDRL Data Item number A004. The first report shall be submitted no later than 30 days after contract award. Subsequent reports shall be submitted on a monthly basis thereafter.

C.5.7. Software User Manual: The contractor shall deliver one (1) User Manual for the software no later than thirty-six (36)\*\*\* months after contract award and in accordance with CDRL Data Item Number A005. The User Manual for the software shall include a summary of the background and theory for the underlying algorithms, the material characterization test procedures developed in Task C.4.8, format requirements for the input files, and software execution procedures.

C.5.8. Software Product Specification (SPS): The contractor shall deliver the initial SPS, including one (1) executable version of the software, no later than one (1) month after contract award and in accordance with CDRL Data Item number A006. The contractor shall

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deliver the final SPS, including one (1) executable version of the software, no later than thirty-six (36)\*\*\* months after contract award and in accordance with CDRL Data Item number A006.

C.6.      Government-Furnished Equipment/Materials/Property: None.

\*\* Revised Pursuant to Modification P00002

\*\*\* Revised Pursuant to Modification P00004

\*\*\* END OF NARRATIVE C0001 \*\*\*

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## SECTION F - DELIVERIES OR PERFORMANCE

## F.1 PERIOD OF PERFORMANCE

F.1.1 All effort required under this contract, including deliver of the final technical report, shall be completed within thirty (36)\*\*\* months after contract award date.

## F.2 DATA DELIVERABLES

F.2.1 Delivery of data set forth in the contract shall be in accordance with the Contract Data Requirements List, DD Form 1423.

## F.3 MATERIAL/HARDWARE DELIVERABLES

F.3.1 All materials/hardware required to be delivered under the contract shall be delivered FOB Destination to the following address:

U.S. Army TARDEC  
Attn: Matthew Castanier, RDTA-RS / MS 157  
6501 East 11 Mile Road  
Warren, MI 48397-5000

\*\* Revised Pursuant to Modification P00002

\*\*\* Revised Pursuant to Modification P00004

\*\*\* END OF NARRATIVE F0001 \*\*\*

**CONTINUATION SHEET**

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**MOD/AMD** P00004

**Name of Offeror or Contractor:** ENDURICA LLC

SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ MIPR/ <u>ITEM</u>	OBLG <u>STAT</u>	JO NO/ <u>ACCT ASSIGN</u>	<u>ACRN</u>	<u>PRIOR AMOUNT</u>	<u>INCREASE/ DECREASE</u>	<u>CUMULATIVE AMOUNT</u>
000102	R312C228R3 665502M4000	2	12C228	AB \$	364,988.00 \$	-500.00 \$	364,488.00
					NET CHANGE \$	-500.00	

<u>ACRN</u>	<u>ACCOUNTING CLASSIFICATION</u>	<u>INCREASE/ DECREASE</u>
AB 21	12040000016N6N7EP665502255Y S20113	W56HZV \$ -500.00
		NET CHANGE \$ -500.00

	<u>PRIOR AMOUNT OF AWARD</u>	<u>INCREASE/DECREASE AMOUNT</u>	<u>CUMULATIVE OBLIG AMT</u>
NET CHANGE FOR AWARD:	\$ 729,976.00	\$ -500.00	\$ 729,476.00

LINE	<u>ITEM</u>	<u>ACRN</u>	<u>EDI/SFIS ACCOUNTING CLASSIFICATION</u>
000102	AB	21	111220400000 W56HZV 16N6N7E665502M4000255YR312C228R3 12C228 S20113

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**Reference No. of Document Being Continued**

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**MOD/AMD** P00004

**Name of Offeror or Contractor:** ENDURICA LLC

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>
Exhibit A	CONTRACT DATA REQUIREMENTS LIST (DD FORM 1423)	02-OCT-2013		

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: Reports  
D. SYSTEM/ITEM: Fatigue Life Modeling and Simulation of Elastomer-Polymer Materials  
E. CONTRACT/PR NO.: W56HZV-10-C-0201  
F. CONTRACTOR: Endurica LLC

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1. DATA ITEM NO: A001  
2. TITLE OF DATA ITEM: Contractor's Progress Status and Management Report  
3. SUBTITLE: Monthly Reports  
4. AUTHORITY: DI-MGMT-80227(T) (see 16a. below)  
5. CONTRACT REFERENCE: C.5.3  
6. REQUIRING OFFICE: RDTA-RS / MS 157  
7. WAWF/DD250 REQ: LT  
8. APP CODE: N/A  
9. DIST. STATEMENT REQUIRED: B  
10. FREQUENCY: Monthly  
11. AS OF DATE: Date of Contract Award  
12. DATE OF FIRST SUB: 30 Days after Date of Contract Award  
13. DATE OF SUBS. SUB: Monthly Thereafter  
14. DISTRIBUTION ADDRESSEES: submit reports electronically to the e-mail addresses shown immediately below:  
a. Matthew Castanier, Contracting Officer's Representative (COR)  
matthew.p.castanier.civ@mail.mil  
b. Andrew Pomorski, Contract Specialist\*\*\*  
andrew.g.pomorski.civ@mail.mil\*\*\*  
c. Cognizant Administrative Contracting Officers Representative (ACO)  
See Section G of the Contract  
15. TOTAL:  
16. REMARKS: DI-MGMT-80227 is tailored by deleting 10.2, 10.3(j) 10.3(k), and 10.3(l).  
17. PRICE GROUP:  
18. ESTIMATED TOTAL PRICE:

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1. DATA ITEM NO: A002  
2. TITLE OF DATA ITEM: Research and Development (R&D) Project Summary  
3. SUBTITLE:  
4. AUTHORITY:  
5. CONTRACT REFERENCE: C.5.4  
6. REQUIRING OFFICE: RDTA-RS / MS 157  
7. WAWF/DD250 REQ: DD  
8. APP CODE: A  
9. DIST. STATEMENT REQUIRED: A  
10. FREQUENCY: See Item 16  
11. AS OF DATE: Date of Contract Award  
12. DATE OF FIRST SUB: See Item 16  
13. DATE OF SUBS. SUB: See Item 16  
14. DISTRIBUTION ADDRESSEES: submit reports electronically to the e-mail addresses shown immediately below:

- a. Matthew Castanier, Contracting Officer's Representative (COR)  
matthew.p.castanier.civ@mail.mil
- b. Andrew Pomorski, Contract Specialist\*\*\*  
andrew.g.pomorski.civ@mail.mil\*\*\*
- c. Cognizant Administrative Contracting Officers Representative (ACO)  
See Section G of the Contract
- d. See Item 16.c

15. TOTAL:

16. REMARKS:

a. The contractor must submit a publicly releasable SBIR Phase II R&D Project Summary at the end of contract. The summary is an unclassified, non-sensitive, and non-proprietary summation of results that is intended for public viewing on the Army SBIR / STTR Small Business Portal. It should address the Data Item requirements on a summary basis and must not exceed 700 words.

b. Since the Department of Defense (DOD) will be publishing the summary, it must not contain any proprietary, classified, or ITAR restricted data. The summary must be submitted electronically and be in HTML format and include the following:

- i. A summation of the Phase I results;
- ii. A description of the technology being developed;
- iii. The anticipated DoD and/or non DoD customer;
- iv. The plan to transition the SBIR technology to the customer;
- v. The anticipated application/benefits for government and/or private sector use; and
- vi. An image depicting the developed technology.

c. The Contractor shall deliver one (1) draft "SBIR Phase II R&D Project Summary" 35\*\*\* months after contract award. The COR shall review the draft report and return it to the Contractor within fifteen (15) days of receipt with comments. The Contractor shall submit one (1) final "SBIR Phase II R&D Project Summary" within fifteen (15) days after receipt of draft comments (36\*\*\* months after contract award) and shall submit the final summary report in accordance with the format and instructions posted within the Army SBIR Small Business Portal at <https://portal.armysbir.army.mil/SmallBusinessPortal/Default.aspx>.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

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- 1. DATA ITEM NO: A003
  - 2. TITLE OF DATA ITEM: Scientific and Technical Report
  - 3. SUBTITLE: Draft/Final Technical Report
  - 4. AUTHORITY: DI-MISC-80711A(T) (see 16a. below)
  - 5. CONTRACT REFERENCE: C.5.5
  - 6. REQUIRING OFFICE: RDTA-RS / MS 157
  - 7. WAWF/DD250 REQ: DD
  - 8. APP CODE: A
  - 9. DIST. STATEMENT REQUIRED: B
  - 10. FREQUENCY: See Item 16
  - 11. AS OF DATE: Date of Contract Award
  - 12. DATE OF FIRST SUB: See Item 16
  - 13. DATE OF SUBS. SUB: See Item 16
  - 14. DISTRIBUTION ADDRESSEES: submit reports electronically to the e-mail addresses shown immediately below:
    - a. Matthew Castanier, Contracting Officer's Representative (COR)  
matthew.p.castanier.civ@mail.mil
    - b. Andrew Pomorski, Contract Specialist\*\*\*  
andrew.g.pomorski.civ@mail.mil\*\*\*
    - c. Cognizant Administrative Contracting Officers Representative (ACO)  
See Section G of the Contract

15. TOTAL:

16. REMARKS:

a. DI-MISC-80711A is tailored by deleting 10.2.

b. The Draft of the Final Technical Report shall be delivered 34\*\*\* months after date of contract award. The draft report shall include a completed Standard Form (SF) 298 (Report Documentation Page) as the report's cover sheet. The Government will review and respond within 30 days of receipt. The contractor shall submit the Final Technical Report (with the completed SF 298) within 30 days

after receipt of draft comments/approval.

c. You may download the SF 298 form, from the following internet address:

[http://www.dtic.mil/dtic/pdf/submit/SF0298\\_fillable.pdf](http://www.dtic.mil/dtic/pdf/submit/SF0298_fillable.pdf)

d. Instructions for completing the SF 298 are provided in Attachment 001 to the contract.

e. 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, TARDEC has final responsibility for assigning a distribution statement. The contractor shall mark the actual report itself in accordance with the appropriate legends set forth in DFARS 252.227-7018, "RIGHTS IN NONCOMMERCIAL TECHNICAL DATA AND COMPUTER SOFTWARE -- SMALL BUSINESS INNOVATIVE RESEARCH (SBIR) PROGRAM".

Block 13 (Abstract) of the SF 298 must include the first sentence, "Report developed under SBIR contract for topic (insert topic number)." 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."

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

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1. DATA ITEM NO: A004  
2. TITLE OF DATA ITEM: Performance and Cost Report  
3. SUBTITLE:  
4. AUTHORITY: DI-FNCL-80912  
5. CONTRACT REFERENCE: C.5.6  
6. REQUIRING OFFICE: RDTA-RS / MS 157  
7. WAWF/DD250 REQ: LT  
8. APP CODE: N/A  
9. DIST. STATEMENT REQUIRED: B  
10. FREQUENCY: Monthly  
11. AS OF DATE: Date of Contract Award  
12. DATE OF FIRST SUB: 30 Days after Date of Contract Award  
13. DATE OF SUBS. SUB: Monthly Thereafter  
14. DISTRIBUTION ADDRESSEES: submit reports electronically to the e-mail addresses shown immediately below:  
a. Matthew Castanier, Contracting Officer's Representative (COR)  
matthew.p.castanier.civ@mail.mil  
b. Andrew Pomorski, Contract Specialist\*\*\*  
andrew.g.pomorski.civ@mail.mil\*\*\*  
c. Cognizant Administrative Contracting Officers Representative (ACO)  
See Section G of the Contract  
15. TOTAL:  
16. REMARKS:  
17. PRICE GROUP:  
18. ESTIMATED TOTAL PRICE:

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1. DATA ITEM NO: A005

2. TITLE OF DATA ITEM: Software User Manual  
3. SUBTITLE: User Manual Deliverable  
4. AUTHORITY: DI-IPSC-81443A  
5. CONTRACT REFERENCE: C.5.7  
6. REQUIRING OFFICE: RDTA-RS / MS 157  
7. WAWF/DD250 REQ: N/A  
8. APP CODE: N/A  
9. DIST. STATEMENT REQUIRED: C  
10. FREQUENCY: See Item 16  
11. AS OF DATE: Date of Contract Award  
12. DATE OF FIRST SUB: See Item 16  
13. DATE OF SUBS. SUB: See Item 16  
14. DISTRIBUTION ADDRESSEES: submit electronically to the e-mail addresses shown immediately below:

Matthew Castanier, Contracting Officer's Representative (COR)  
matthew.p.castanier.civ@mail.mil

or hardcopy / physical end items to the address shown immediately below:

U.S. Army TARDEC  
Attn: Matthew Castanier, RDTA-RS / MS 157  
6501 East 11 Mile Road  
Warren, MI 48397-5000

15. TOTAL:  
16. REMARKS:

a. The contractor shall deliver one (1) Software User Manual as specified in the Statement of Work, Section C of the contract, no later than 36\*\*\* months after contract award.

b. The contractor shall deliver the Software User Manual electronically via email, CD, or DVD.

17. PRICE GROUP:  
18. ESTIMATED TOTAL PRICE:

- 
1. DATA ITEM NO: A006  
2. TITLE OF DATA ITEM: Software Product Specification (SPS)  
3. SUBTITLE: Software Deliverable  
4. AUTHORITY: DI-IPSC-81441A  
5. CONTRACT REFERENCE: C.5.8  
6. REQUIRING OFFICE: RDTA-RS / MS 157  
7. WAWF/DD250 REQ: DD  
8. APP CODE: N/A  
9. DIST. STATEMENT REQUIRED: D  
10. FREQUENCY: See Item 16  
11. AS OF DATE: Date of Contract Award  
12. DATE OF FIRST SUB: See Item 16  
13. DATE OF SUBS. SUB: See Item 16  
14. DISTRIBUTION ADDRESSEES: submit electronically to the e-mail addresses shown immediately below:

Matthew Castanier, Contracting Officer's Representative (COR)  
matthew.p.castanier.civ@mail.mil

or hardcopy / physical end items to the address shown immediately below:

U.S. Army TARDEC  
Attn: Matthew Castanier, RDTA-RS / MS 157  
6501 East 11 Mile Road  
Warren, MI 48397-5000

15. TOTAL:

16. REMARKS:

a. DI-IPSC-81441A is tailored by deleting 3.2, 4, and 6.

b. The contractor shall deliver all software developed under this contract as specified in the Statement of Work, Section C of the contract, no later than 36\*\*\* months after contract award.

c. The contractor shall provide executable code for all software developed under this contract as well as other components of the software previously developed exclusively at private expense, whether commercial or non-commercial. In the case of such software components developed other than under this contract; the contractor shall also deliver any transferable licenses required for use of such component software.

d. The COR is responsible for accepting or rejecting the deliverable software.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

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\*\*\*\*\* THE FOLLOWING INSTRUCTIONS APPLY TO ALL REPORTS DELIVERABLE UNDER THE CONTRACT \*\*\*\*\*

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

(1) Files readable using these Microsoft\* Office XP or Microsoft\* Office 2007 & lower Products: Word, Excel, or PowerPoint. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print or scan images of spreadsheets are not acceptable. Please see security note below for caution regarding use of macros.

(2) Files in Adobe PDF (Portable Document Format). When scanning documents, scanner should be set to 200 dots per inch.

(3) Files in HTML (Hypertext Markup Language) Format. HTML documents must not contain active links to Internet websites or web pages for reference information. 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 to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten (10) calendar days before the draft report's due date. All alternate methods must be at no cost to the Government.

NOTE. Macros: The virus scanning software used by our e-mail systems cannot always distinguish a macro from a virus. Therefore, sending a macro embedded in an e-mail message or an e-mail attachment may cause the e-mail report to be quarantined.

d. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, another acceptable medium is a CD or a DVD. Identify the software application and version used to create each file submitted.

(1) E-MAIL. Maximum size of each e-mail message shall be ten (10) megabytes. 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) CD or DVD to be delivered via U.S. Mail or other carrier. The Contractor shall label all submitted disks with the Contract number, the Contractor's name and address, and a contact's phone number. Exterior mailing envelopes containing disks must be addressed to the following address:

U.S. Army TARDEC  
Attn: Matthew Castanier, RDTA-RS / MS 157  
6501 East 11 Mile Road  
Warren, MI 48397-5000

NOTE: Please select only one type of electronic media to transmit each report. For instance, do not submit a report via e-mail and CD.

\* Registered Trademark

\*\* Revised Pursuant to Modification P00002

\*\*\* Revised Pursuant to Modification P00004