

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. Contract ID Code
Firm Fixed Price

Page 1 Of 21

2. Amendment/Modification No. 04	3. Effective Date 2015JAN15	4. Requisition/Purchase Req No. SEE SCHEDULE	5. Project No. (If applicable)
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6. Issued By U.S. ARMY CONTRACTING COMMAND DEREK M. DYCIO WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: DEREK.M.DYCIO.CIV@MAIL.MIL	Code W56HZV	7. Administered By (If other than Item 6) DCMA BALTIMORE 217 EAST REDWOOD STREET SUITE 1800 BALTIMORE MD 21202-3375	Code S2101A
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8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code) SURVICE ENGINEERING COMPANY, LLC, THE 4695 MILLENNIUM DR BELCAMP, MD 21017-1505	<input type="checkbox"/>	9A. Amendment Of Solicitation No.
	<input type="checkbox"/>	9B. Dated (See Item 11)
	<input checked="" type="checkbox"/>	10A. Modification Of Contract/Order No. W56HZV-14-D-0056/0003
	<input type="checkbox"/>	10B. Dated (See Item 13) 2014APR30

Code 7T988 Facility Code

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers

is extended, is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendments; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. **FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.** If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. Accounting And Appropriation Data (If required)

ACRN: AB NET INCREASE: \$195,857.04

**13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS
It Modifies The Contract/Order No. As Described In Item 14.**

<input type="checkbox"/>	A. This Change Order is Issued Pursuant To: The Contract/Order No. In Item 10A.	The Changes Set Forth In Item 14 Are Made In
<input type="checkbox"/>	B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).	
<input checked="" type="checkbox"/>	C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of:	
<input type="checkbox"/>	D. Other (Specify type of modification and authority)	

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the Issuing Office.

14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE SECOND PAGE FOR DESCRIPTION

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. Name And Title Of Signer (Type or print)	16A. Name And Title Of Contracting Officer (Type or print) JEFFREY B. YEAGER JEFFREY.B.YEAGER2.CIV@MAIL.MIL (586)282-6200		
15B. Contractor/Offeror (Signature of person authorized to sign)	15C. Date Signed	16B. United States Of America By _____ /SIGNED/ (Signature of Contracting Officer)	16C. Date Signed 2015JAN15

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Name of Offeror or Contractor: SURVICE ENGINEERING COMPANY, LLC, THE

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: DEREK M. DYCIO
Buyer Office Symbol/Telephone Number: CCTA-HBA-T/(586)282-6886
Type of Contract 1: Firm Fixed Price
Kind of Contract: Service Contracts
Type of Business: Large Business Performing in U.S.
Surveillance Criticality Designator: C
Weapon System: No Identified Army Weapons Systems

*** End of Narrative A0000 ***

The purpose of this Modification 04 to W56HZV-14-D-0056 0003 is to:

1. Extend the Period of Performance on Task Order 0003 from 01 May 2014 to 28 February 2015. Section C.1.5 has been updated to reflect this change.
2. SubCLIN 0011AD has been added and funded in the amount of \$177,890.80 in support of this effort.
3. SubCLIN 0011AE has been added and funded in the amount of \$17,966.24 on a not to exceed basis for travel. Attachment 0001. "TRAVEL" has been updated.
4. Task Order 0003 has been increased in the amount of \$195,857.04 from \$1,206,496.22 to \$1,402,353.26.
5. The maximum amount of this IDIQ contract for Live Fire Testing and Evaluation is \$9,000,000.00. Including this modification, \$3,054,605.79 has been awarded on this contract. An amount of \$5,945,394.21 remains available.
6. There are no other changes, as a result of this modification, and all other terms and conditions remain unchanged.

*** END OF NARRATIVE A0005 ***

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Name of Offeror or Contractor: SURVICE ENGINEERING COMPANY, LLC, THE

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT									
0011	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS SURVICE SUPPORT SURVICE Engineering Corporation shall act in accordance with the PWS for Task Order 0003. Period of Performance is 01 May 2014 - 17 October 2014. (End of narrative A001)													
0011AA	<p><u>TASK ORDER 0002 - ORDERING PERIOD ONE</u></p> <p>SERVICE REQUESTED: SURVICE SUPPORT CLIN CONTRACT TYPE: Firm Fixed Price PRON: R34JL09AR3 PRON AMD: 01 ACRN: AA PSC: H223 CUSTOMER ORDER NO: F2VUF03354G001</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> Period of Performance Start Date: 01-MAY-2014 End Date: 17-OCT-2014</p> <table border="0" data-bbox="264 1236 769 1310"> <tr> <td>DLVR SCH</td> <td></td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>2</td> <td>17-OCT-2014</td> </tr> </table> <p style="text-align: right;">\$ 726,496.22</p>	DLVR SCH		PERF COMPL	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	2	17-OCT-2014	2	LO		\$ 726,496.22
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<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>												
001	2	17-OCT-2014												
0011AB	<p><u>TASK ORDER 0003 - ORDERING PERIOD ONE</u></p> <p>SERVICE REQUESTED: SURVICE CLIN CONTRACT TYPE: Firm Fixed Price PRON: R34JL812R3 PRON AMD: 01 ACRN: AA PSC: H223 CUSTOMER ORDER NO: F2VUF03354G001</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> Period of Performance Start Date: 01-MAY-2014</p>	1	LO		\$ 460,718.54									

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Name of Offeror or Contractor: SURVICE ENGINEERING COMPANY, LLC, THE

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT																		
	<p>End Date: 31-JAN-2015</p> <table border="0"> <tr> <td>DLVR SCH</td> <td></td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>31-JAN-2015</td> </tr> </table> <p style="text-align: right;">\$ 460,718.54</p> <p><u>TASK ORDER 0003 TRAVEL - ORDERING PERIOD ONE</u></p> <p>1</p> <p>SERVICE REQUESTED: SURVICE CLIN CONTRACT TYPE: Firm Fixed Price PRON: R34JL812R3 PRON AMD: 01 ACRN: AA PSC: H223 CUSTOMER ORDER NO: F2VUF03354G001</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> Period of Performance Start Date: 01-MAY-2014 End Date: 31-JAN-2015</p> <table border="0"> <tr> <td>DLVR SCH</td> <td></td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>31-JAN-2015</td> </tr> </table> <p style="text-align: right;">\$ 19,281.46</p> <p>SURVICE Engineering Corporation shall act in accordance with the PWS for Task Order 0003. Period of Performance is 01 May 2014 - 28 February 2015.</p> <p style="text-align: center;">(End of narrative A001)</p>	DLVR SCH		PERF COMPL	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	1	31-JAN-2015	DLVR SCH		PERF COMPL	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	1	31-JAN-2015	1	LO		<p>\$ 19,281.46 ESTIMATED</p>
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001	1	31-JAN-2015																					
0011AD	<p><u>TASK ORDER 0003</u></p> <p>1</p> <p>SERVICE REQUESTED: SURVICE TEST SUPPORT CLIN CONTRACT TYPE: Firm Fixed Price PRON: R35JL006R3 PRON AMD: 01 ACRN: AB PSC: H223 CUSTOMER ORDER NO: F2VUF04350GW01</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p>	1	LO		<p>\$ 177,890.80</p>																		

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Name of Offeror or Contractor: SURVICE ENGINEERING COMPANY, LLC, THE

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT									
	<p><u>Deliveries or Performance</u> Period of Performance Start Date: 31-JAN-2015 End Date: 28-FEB-2015</p> <table border="0"> <tr> <td>DLVR SCH</td> <td></td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>28-FEB-2015</td> </tr> </table> <p style="text-align: right;">\$ 177,890.80</p>	DLVR SCH		PERF COMPL	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	1	28-FEB-2015				
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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT									
0011AE	<p>CLIN 0011AE is added as a Not To Exceed SubCLIN with \$17,966.24 as the ceiling. Costs for transportation, lodging, meals and incidental expenses incurred by the contractor are allowable subject to the limitations contained in the Federal Travel Regulations and/or Joint Travel Regulations. Allowable travel and per diem charges are governed by FAR Part 31, and are reimbursable by the ordering agency or can be priced as a fixed price item on orders placed under the contract. Travel in performance of a task order will only be reimbursable to the extent authorized by the COR prior to the date when the travel occurs.</p> <p style="text-align: center;">(End of narrative A001)</p> <p><u>TASK ORDER 0003 TRAVEL</u></p> <p>SERVICE REQUESTED: SURVICE TEST SUPPORT CLIN CONTRACT TYPE: Firm Fixed Price PRON: R35JL006R3 PRON AMD: 01 ACRN: AB PSC: H223 CUSTOMER ORDER NO: F2VUF04350GW01</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> Period of Performance Start Date: 31-JAN-2015 End Date: 28-FEB-2015</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">DLVR SCH</td> <td style="width: 30%;">PERF COMPL</td> <td></td> </tr> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>28-FEB-2015</td> </tr> </table> <p style="text-align: right;">\$ 17,966.24</p>	DLVR SCH	PERF COMPL		<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	1	28-FEB-2015	1	LO		<p>\$ <u>17,966.24</u> ESTIMATED</p>
DLVR SCH	PERF COMPL													
<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>												
001	1	28-FEB-2015												

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Name of Offeror or Contractor: SURVICE ENGINEERING COMPANY, LLC, THESECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT
PERFORMANCE WORK STATEMENT (PWS)

Part 1

General Information

1. GENERAL: This is a non-personnel services contract to provide Survivability, Lethality, Vulnerability, Effectiveness, and Suitability Test & Evaluation Engineering Support. The Government shall not exercise any supervision or control over the contract service providers performing the services herein. Such contract service providers shall be accountable solely to the Contractor who, in turn is responsible to the Government.

1.1 Description of Services/Introduction: The contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personal services necessary to perform Survivability, Lethality, Vulnerability, Effectiveness, and Suitability Test & Evaluation Engineering Support as defined in this Performance Work Statement except for those items specified as government furnished property and services. The contractor shall perform to the standards in this contract.

1.2 Background: This requirement is for development of Survivability and Test and Evaluation (T&E) documentation, blast analysis, lethality strategies, assessment plans, detailed test plans and Live Fire Test and Evaluation (LFT&E), test and evaluation to support research and development activities for TARDEC, and test support in area of blast, crash, and rollover evaluation.

1.3 Objectives: The objective of this contract is to support the efforts of the U.S. Department of Defense (DoD) with particular emphasis on test and evaluation for research and development at Tank Automotive Research, Development, and Engineering Center (TARDEC). The contract will provide test, evaluation, and test technology development expertise Survivability, Lethality, Vulnerability, Effectiveness, and Suitability Test & Evaluation Engineering evaluations that will be used to provide the following professional engineering services:

- (a) Test and evaluation support
- (b) Plan development
- (c) Archive data & information
- (d) Test results validation, analysis, and distillation
- (e) Report and briefing support
- (f) Test and test technology development support
- (g) Meeting support
- (h) Verification, Validation & Accreditation support
- (i) Technical inquiry support
- (j) Program coordination support
- (k) Professional training

The goal of this effort is to obtain for TARDEC Physical Simulation & Test (PS&T) and customer elements of the TACOM LCMC Command located at Warren, MI. The focus of the effort is professional engineering support services that provide survivability, lethality, vulnerability, effectiveness and suitability expertise in test and evaluation (including analysis and report generation) and test technology development programs. This expertise is needed to support Family of Special Operations Vehicles (FOSOV) customer system that are conducting research and development and requiring test and evaluation at various test ranges, primarily located at ATC, to insure both timely completion and assured technical quality.

A majority of the work on this contract will be done at the contractors facilities, but a few tasks directed by the order may need closer coordination and require on-site personnel in Warren, MI or Tampa Bay, FL within each of the specified program managers including FOSOV. There may be instances of temporary duty at other facilities and test ranges.

The professional engineering support services will include assisting TARDEC PS&T Engineers through coordination with ATC test officers and AEC evaluators in all aspects of test, evaluation, and analysis, to include: planning, scheduling, execution, preparation and generation of reports and documents, data acquisition, data validation, data reduction, and data management using standard Test and Evaluation (T&E) methodology, and analysis of results using standard engineering and statistical calculations, models, and performance criteria.

The purpose of this contract is to provide non-personal, technical services support, and related resources, to FOSOV, located at the McDill AFB, Tampa Bay, FL, and other DoD or U.S. government agencies, located throughout the United States, with whom TARDEC-PS&T is either supporting or working. Funding will be obligated against the Order and shall be accomplished on an incremental basis.

1.4 Scope: The contractor shall provide TARDEC-PS&T with Test & Evaluation support to include test planning, test execution, results analysis, and development of the Test & Evaluation competency amongst government employees. Services include:

1.4.1 The contractor shall provide test and evaluation expertise in survivability, lethality, vulnerability, effectiveness, and suitability.

1.4.2 The contractor shall provide non-personal, technical services to TARDEC-PS&T, primarily at TARDEC, but also at various test ranges. Primary areas of technical services support include, but are not limited to: assistance in the timely planning, scheduling,

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testing, evaluation, analysis, preparation and generation of reports and documents, data acquisition, data validation, data reduction, and data management using standard T&E methodology, and analysis of results using standard engineering calculations, models, and performance criteria.

1.4.3 The contractor shall provide non-personal, technical services to TARDEC-PS&T to assist in the development, verification, validation, and accreditation of test methodologies, analytical tools, and processes used in support of survivability, lethality, and vulnerability, effectiveness and suitability test and evaluation.

1.4.4 The contractor shall provide non-personal, technical services support to other DoD or U.S. Government agencies with whom TARDEC-PS&T is either supporting or working. Areas of technical services support include, but are not limited to: timely planning; survivability, lethality, and vulnerability, effectiveness and suitability testing, evaluation, and analysis; and preparation and generation of reports and documents.

1.4.5 The contractor shall perform non-personal services as an independent contractor and not as an agent or employee of the U.S. Government.

1.4.6 Technical Requirement. The contractor shall, provide any or all of the following services.

1.4.6.1 Technical Requirement 1 Test and Evaluation Support.

- a. The contractor shall assist TARDEC PS&T Team by providing the survivability, lethality, vulnerability, test and evaluation expertise, and use this expertise to support test officers in: planning, scheduling, preparing, and executing tests in these areas; preparation and generation of reports and documents; data acquisition, validation, reduction, and management using standard T&E methodology; and analysis of test results using standard engineering calculations, models, and performance criteria.
- b. The contractor shall assist TARDEC PS&T Team by providing survivability, lethality, vulnerability, effectiveness and suitability test and evaluation expertise and use this expertise to utilize data obtained from the analysis of previously conducted system program tests, results of the test events, and inputs obtained through modeling and simulation (M&S) to augment or interpret the results of each event. The contractor shall maintain and use M&S capabilities such as Modular Unix'-Based Vulnerability Estimation Suite (MUVES), Stochastic Analysis of Fragmentation Effects (SAFE), Advanced Joint Effectiveness Model (AJEM), Parametric Endo/Exoatmospheric Lethality Simulation (PEELS), and Enhanced Lethality End-Game Simulation (ELEGS) for use in the evaluations of system survivability. Other system-specific M&S capabilities shall be incorporated in the evaluation support at the direction of the Contracting Officer's Representative.

1.4.6.2 Technical Requirement 2 Plan Development. The contractor shall assist TARDEC PS&T Team in preparing test plans (e.g., Detailed Test Plans [DTP], Test and Evaluation Master Plans [TEMP], and OTA Test Plans (OTA TPs), and test technology development plans (e.g., Technology Development and Acquisition Program [TDAP] submissions) to include type of tests, test methodology, required accuracy and precision, proposed schedule, and estimated cost. In addition, the contractor shall provide draft input to the development of and/or preparation of the Early Strategy Reviews (ESR), Concept Initial Product Reviews (CIPR), Lens charts, Rock Drills, System Evaluation Plans (SEP), OTA Evaluation Report, and OTA Assessment Report. As part of this support, the contractor shall comply with Army and DoD directives to ensure that decisions necessary for the acquisition process (Milestones (MS) A through MS C) can be achieved from the system test event, simulation, and analysis results. The contractor shall identify methods or procedures that could be applied early in the procurement process that would increase the robustness of the development program and minimize the requirement for expensive, redundant testing at later stages of the program.

1.4.6.3 Technical Requirement 3 Archive Data & Information. The contractor shall distill test data into validated engineering analyses and derivative program management information and archive all three in the VISION Digital Library (VDL) as required.

1.4.6.5 Technical Requirement 5 Test Results Validation, Analysis, and Distillation Support.

The contractor shall analyze technical data including instrumentation readings, calculations, deficiency reports, graphs, and the like to first confirm its inherent technical quality and accuracy, and second to present the distilled information in as clear and complete a manner as possible using Government-directed formats.

1.4.6.6 Technical Requirement 6 Report and Briefing Support. The contractor shall assist in providing draft documentation inputs to TARDEC PS&T Team. This assistance shall include preparation of draft input to test and evaluation documentation such as interim and draft detailed test plans and final individual subtest or integrated test reports of test program results in Government-directed formats. The contractor shall also organize and develop draft briefing charts and slides in either electronic or hard copy as required by TARDEC PS&T Team to brief test and evaluation strategies, plans, results, analysis of results, and impact on military programs to other DoD agencies or customers. To accomplish this task the contractor shall prepare spreadsheets, graphs, and tables of analyzed data using Microsoft Office, PTC MathCAD, and Adobe Professional Writer (or other software as may be adopted by the U.S. Army as its standard). In addition, the contractor shall also provide assistance to the government in meetings involving ATECs test and evaluation mission. Also see paragraph 3.4 that applies to this requirement.

1.4.6.7 Technical Requirement 7 Test and Test Technology Development Support. The contractor shall provide on-site range support to TARDEC PS&T Team at the test center and at other sites where TARDEC PS&T Team is conducting survivability, lethality, vulnerability, effectiveness, and suitability test and evaluation and test technology development activities. At a minimum, the contractor shall assist, as requested, with a real-time technical analysis of proposed/executed testing and test technology in terms of the test capabilities and

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methodologies to meet objectives (e.g., typically, but not limited to, assessing a systems compliance with customer stipulated performance criteria), and compliance with accepted engineering standards.

a. For professional engineering support services to be provided by the contractor to TARDEC PS&T Team (or any TARDEC PS&T Team customer), the contractor shall prepare a draft report to the TARDEC PS&T Team Contracting Officers Representative (COR), and to the appropriate Program Manager, named in the order, in a Government-directed format formalizing completion of analyses within 60 days or other such period as may be directed in the order or by the TARDEC PS&T Team COR.

b. For professional engineering support services to be provided to TARDEC PS&T Team, the contractor shall prepare a draft report to the TARDEC PS&T Team Contracting Officers Representative (COR), and to the appropriate Program Manager, named in the order, in a Government-directed format formalizing completion of analyses within 60 days or other such period as may be directed in the order or by the TARDEC PS&T Team COR.

c. Also see paragraph 3.4 that applies to this requirement.

1.4.6.8 Technical Requirement 8 - Meeting Support. The contractor shall coordinate, schedule, and facilitate program meetings/briefings with other DoD agencies and their contractors who are cooperating in the specified military system or IUT test and evaluation programs as directed in the order or by the TARDEC PS&T Team COR. The contractor shall assist TARDEC PS&T Team in organizing, planning, and establishing the meeting agenda, inviting key participants, and preparing and distributing minutes of the meeting. The minutes of the meeting shall be reviewed and approved by the COR for TARDEC PS&T Team (or any TARDEC PS&T Team customer) orders. The contractor shall host meetings as required at the contractors facility. Additionally, the contractor shall organize and coordinate critical action items identified during the meetings with the TARDEC PS&T Team COR. The contractor shall also be required to attend meetings and briefings as determined by the COR for TARDEC PS&T Team. Also see paragraph 3.4 that applies to this requirement.

1.4.6.9 Technical Requirement 9 - Verification, Validation, and Accreditation (VV&A) Support. The contractor shall provide the VV&A of techniques and data utilized in assessing the effectiveness, suitability and survivability of weapon systems. This support shall include the comparison of data from previously conducted tests with results obtained from M&S. The contractor shall also investigate and report the applicability of previous VV&A efforts for current test programs. Preparation of V&V reports and plans and accreditation reports and plans IAW AR 5-11, ATEC Regulation 73-21, and DA PAM 5-11 shall also be included in this support. Also see paragraph 3.4 that applies to this requirement.

1.4.6.10 Technical Requirement 10 - Technical Inquiry Support. The contractor shall conduct literature and database searches, as required, identify and obtain reports and data pertinent to TARDEC PS&T Teams planning and execution of system test and evaluations of acquisition programs.

Support may also require the contractor to present training briefings on specific ballistic and non-ballistic survivability-related topics.

1.4.6.11 Technical Requirement 11 - Program Coordination Support. The contractor shall assist TARDEC PS&T Team by providing program coordination for programs being worked under the terms of the contract. The program coordination includes gathering of current program schedules, test events, deliverables, action items from meetings, and the coordination of issues that need to be resolved and/or require response from TARDEC PS&T Team. The contractor shall have the ability to manage multiple timelines and deliverables, and track multiple schedules and multiple deliverables. The contractor shall be responsible for prioritizing work-authorized requirements in accordance with scheduled delivery dates to ensure timeliness and efficiency of contract support.

1.4.6.12 Technical Requirement 12 - Identify Issues. The contractor shall develop draft critical program related issues directly related to the non-ballistic survivability, ballistic vulnerability and lethality (including live fire) and performance of specified systems. These draft issues will be derived from an assessment of the threat, consideration of how the weapon system will be deployed on the battlefield, and analysis of data previously compiled on the system or similar systems. The contractor shall use existing data resources and modeling and simulation techniques to develop ballistic and non-ballistic survivability evaluation and analysis approaches. The contractor shall identify data voids and these voids will be assessed for their importance to the overall system's non-ballistic survivability, ballistic vulnerability and lethality (including live fire) and performance using modeling and simulation tools identified by the Government.

1.4.7 Deliverables. The contractor shall provide the items listed below in a format defined by TARDEC PS&T Team. All documentation products, software products, and other materials shall be presented in draft form and upon receipt of Government comments, shall be finalized, and delivered within 60 days unless otherwise specified in the order or changed by the TARDEC PS&T Team COR.

1.4.7.1 The contractor shall provide monthly updates for each engineer assigned to perform duties as defined in this contract. Progress reports will describe the status of the contractor's efforts to date to include hours worked for each contract personnel, a summary of travel and the associated cost, accomplished activities, planned meetings attended during the period, planned activities over the next thirty (30) day work period, and shortfalls impeding the accomplishment of each order on schedule and within budget. Monthly updates will be in the format designated by CDRLA0001.

1.4.7.2 The contractor shall submit all deliverables specified under the contract, and in orders requiring professional engineering support services be provided to TARDEC PS&T Team (or any TARDEC Customer) to the COR:

Dr. Alexander A. Reid
US Army TACOM-TARDEC
6501 E. 11 Mile Rd

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Name of Offeror or Contractor: SURVICE ENGINEERING COMPANY, LLC, THE

Bldg 215, MS 157
Warren, MI 48397-5000

1.5 Period of Performance: The period of performance shall be as follows:

May 01, 2014 February 28, 2015

1.6 General Information

1.6.1 Quality Control

1.6.1.1 The contractor shall deliver all deliverables under this SOW and resultant orders to the TARDEC PS&T Team COR as specified in Section 1.4.

1.6.1.2 All deliverables, reference materials, information data, equipment, hardware, software and any database programs produced during work under this SOW and resultant order will become the property of the U.S. Government.

1.6.1.3 Government acceptance of each deliverable constitutes acceptance for only that portion of the overall effort. The Government's rejection of a proposed final product indicates the product at issue must be corrected for satisfactory contract performance.

1.6.2 Quality Assurance: The Government has prepared a Quality Assurance Surveillance Plan (QASP) to address the required services. Surveillance shall occur IAW with the QASP. The details of the QASP will be discussed with the awardee at a post-award kick-off meeting. The post award conference/kick-off meeting shall be organized by the offeror and held at an agreed upon location by the awardee and the government, as soon as possible following the award, but no later than 30 working days after contract award. The awardee is to keep the minutes of this conference/meeting. This conference/meeting should be in accordance with the contract, any subsequent attachments and FAR 42.503. The primary purpose of the kick-off meeting is to review the award package with the awardee to clarify any pertinent questions the awardee and the Government may propose and to insure that the awardee has a complete and legible data package as well as a complete understanding of the contracts technical requirements. The purpose of this conference is NOT to make any changes to the contract in any way. The awardee will prepare the agenda for the conference/meeting and coordinate the time with the Contracting Officer, the AEC and the ATC COR to avoid any conflicts.

1.6.3 Recognized Holidays: The contractor shall not perform any duties during the below recognized holidays.

New Years Day	Labor Day
Martin Luther King Jr.s Birthday	Columbus Day
Presidents Day	Veterans Day
Memorial Day	Thanksgiving Day
Independence Day	Christmas Day

1.6.4 Hours of Operation: The contractor is responsible for conducting business, between the hours of 06:00 and 17:00 Monday thru Friday except Federal holidays or when the Government facility is closed due to local or national emergencies, administrative closings, or similar Government directed facility closings. For other than firm fixed price contracts, the contractor will not be reimbursed when the government facility is closed for the above reasons. The Contractor must at all times maintain an adequate workforce for the uninterrupted performance of all tasks defined within this PWS when the Government facility is not closed for the above reasons. When hiring personnel, the Contractor shall keep in mind that the stability and continuity of the workforce are essential.

1.6.5 Place of Performance

1.6.5.1 Performance of services shall be typically at the contractors site(s), but may occasionally be assigned to Governments site(s), when appropriate.

1.6.5.2 The place of performance may not be changed by the TARDEC - Physical Simulation and Test Team COR without the Contracting Officer (CO) issuing a modification to the order if it goes over the amount on the task order or if the order location is listed as to be determined under the order and the cost is unchanged.

1.6.7 Security Requirements: All contractor employees shall possess a minimum of a Secret clearance. Additionally, access to certain programs may require contractor employees to possess a Top Secret (TS) or TS Sensitive Compartmented Information (SCI) clearance. A visit authorization request letter shall be prepared on company letterhead, verified, and signed by the Facility Security Officer (FSO) or Alternate FSO. Contractor personnel performing work under this contract must have a Top Secret facility clearance as prescribed by the DD Form 254, Department of Defense Contract Security Classification Specification, with attached addendum for orders that provide professional engineering support services to TACOM (and all other TACOM elements including TARDEC). The contractor shall also possess a Top Secret facility clearance as prescribed by the DD Form 254 for orders that provide professional engineering support services to TARDEC. Additionally for TACOM, the contractor shall have approved procedures for handling, processing, and storing CNWDI/RD information at a SECRET classification level.

1.6.7.1 PHYSICAL Security: The contractor shall be responsible for safeguarding all government equipment, information and property provided for contractor use. At the close of each work period, government facilities, equipment, and materials shall be secured.

1.6.7.2 Key Control The Contractor shall establish and implement methods of making sure all keys/key cards issued to the Contractor by the Government are not lost or misplaced and are not used by unauthorized persons. NOTE: All references to keys include key cards. No keys issued to the Contractor by the Government shall be duplicated. The Contractor shall develop procedures covering key control that shall be included in the Quality Control Plan. Such procedures shall include turn-in of any issued keys by personnel who no longer require access to locked areas. The Contractor shall immediately report any occurrences of lost or duplicate keys/key cards to the Contracting Officer.

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1.6.7.3 In the event keys, other than master keys, are lost or duplicated, the Contractor shall, upon direction of the Contracting Officer, re-key or replace the affected lock or locks; however, the Government, at its option, may replace the affected lock or locks or perform re-keying. When the replacement of locks or re-keying is performed by the Government, the total cost of re-keying or the replacement of the lock or locks shall be deducted from the monthly payment due the Contractor. In the event a master key is lost or duplicated, all locks and keys for that system shall be replaced by the Government and the total cost deducted from the monthly payment due the Contractor.

1.6.7.4. The Contractor shall prohibit the use of Government issued keys/key cards by any persons other than the Contractors employees. The Contractor shall prohibit the opening of locked areas by Contractor employees to permit entrance of persons other than Contractor employees engaged in the performance of assigned work in those areas, or personnel authorized entrance by the Contracting Officer.

1.6.7.5 Lock Combinations. The Contractor shall establish and implement methods of ensuring that all lock combinations are not revealed to unauthorized persons. The Contractor shall ensure that lock combinations are changed when personnel having access to the combinations no longer have a need to know such combinations. These procedures shall be included in the Contractors Quality Control Plan.

1.6.8 Special Qualifications: The contractor shall provide to the TARDEC - Physical Simulation and Test Team COR written certification attesting to the adequacy of training and experience for all employees assigned to work under the auspices of this contract. Any personnel changes or substitutions shall be made only after review and approval by the TARDEC - Physical Simulation and Test Team COR. The TARDEC - Physical Simulation and Test Team COR, upon reviewing and approving personnel changes, shall provide a written copy of the changes and approval, to the cognizant contracting officer on record.

1.6.8.1 The contractor shall propose a cross section of labor categories and hours sufficient to provide the required services delineated in the SOW. If changes are required based on the content of a specific order or the contractors own analysis of the tasks as they are executed, the contractor may provide alternate labor categories and hours if the total cost to the Government for the specific order remains the same or is less.

1.6.8.2 The contractor shall be required to attend technical coordination meetings as determined by the TARDEC - Physical Simulation and Test Team COR.

1.6.8.3 The following minimum threshold qualifications for each of the consolidated labor categories listed Section B are established by the Government as a means to assure that the contractors workforce meets a reasonable standard for an adequate baseline level of competence.

1.6.8.4 Ten or more years of practical test and evaluation experience in survivability, lethality, and vulnerability testing or in effectiveness or suitability analysis may be offered in lieu of a B.S. degree in Engineering, Physical Science, or related scientific or technical discipline for any of the following consolidated position descriptions that require such a degree to meet the threshold education requirement.

Senior Project Scientist/Engineer/Analyst/Manager or Subject Matter Expert Level III

Experience : A technical or administrative leader with expertise in one or more subject matter areas, attained through advanced education and years of related technical experience in that particular discipline. Has established a reputation for technical excellence in the subject community through various activities, such as peer development and training; technical publications, symposia presentations and/or papers; receipt of awards or certifications; or previous quality work in related or similar endeavors. Possesses the ability to undertake and resolve difficult and highly complex technical projects through research, analysis, and the application of judgment developed from previous experiences. Provides technical insight for addressing problems that are difficult to define, require unconventional or novel approaches, and require sophisticated analytical techniques. Remains abreast of changes in the subject matter area and introduces technological/cutting edge breakthroughs into current efforts when applicable. Provides technical leadership through mentoring and training activities as well as recommending and supporting company-wide technical research policies and programs. Maintains communication with customers and markets existing products, services and company capabilities.

Education Requirement : Bachelor's Degree in Engineering, Computer Science, Business, Information Systems, or other related scientific or technical discipline.

Alternate Experience :

No Degree	Associate's	Bachelor's		Master's		Ph.D.		
Gen	Spec	Gen	Spec	Gen	Spec	Gen	Spec	G
28	19	23	17	18	15	16	12	1
4	10							

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Senior Project Scientist/Engineer/Analyst/Manager or Subject Matter Expert Level II

Experience : A technical or administrative leader with expertise in one or more subject matter areas, attained through advanced education and years of related technical experience in that particular discipline. Has established a reputation for technical excellence in the subject community through various activities, such as peer development and training; technical publications, symposia presentations and/or papers; receipt of awards or certifications; or previous quality work in related or similar endeavors. Possesses the ability to undertake and resolve difficult and highly complex technical projects through research, analysis, and the application of judgment developed from previous experiences. Provides technical insight for addressing problems that are difficult to define, require unconventional or novel approaches, and require sophisticated analytical techniques. Remains abreast of changes in the subject matter area and introduces technological/cutting edge breakthroughs into current efforts when applicable. Provides technical leadership through mentoring and training activities as well as recommending and supporting company-wide technical research policies and programs. Maintains communication with customers and markets existing products, services and company capabilities.

Education Requirement : Bachelor's Degree in Engineering, Computer Science, Business, Information Systems, or other related scientific or technical discipline.

Alternate Experience :

No Degree	Associate's		Bachelor's		Master's		Ph.D.		
Gen	Spec	Gen	Spec	Gen	Spec	Gen	Spec	Gen	Spec
26	16	21	14	17	12	15	10		
3	8								

Senior Project Scientist/Engineer/Analyst/Manager or Subject Matter Expert

Experience : A technical leader with expertise in one or more subject matter areas, attained through advanced education and years of related technical experience in that particular discipline. Has established a reputation for technical excellence in the subject community through various activities, such as peer development and training; technical publications, symposia presentations and/or papers; receipt of awards or certifications; or previous quality work in related or similar endeavors. Possesses the ability to undertake and resolve difficult and highly complex technical projects through research, analysis, and the application of judgement developed from previous experiences. Provides technical insight for addressing problems that are difficult to define, require unconventional or novel approaches, and require sophisticated analytical techniques. Remains abreast of changes in the subject matter area and introduces technological/cutting edge breakthroughs into current efforts when applicable. Provides technical leadership through mentoring and training activities as well as recommending and supporting company-wide technical research policies and programs. Maintains communication with customers and markets existing products, services and company capabilities.

Education Requirement : Bachelor's Degree in Engineering, Computer Science, Information Systems, or other related scientific or technical discipline.

Alternate Experience :

No Degree	Associate's		Bachelor's		Master's		Ph.D.		
Gen	Spec	Gen	Spec	Gen	Spec	Gen	Spec	Gen	Spec
N/A	N/A	N/A	N/A	15	10	13	8		
1	6								

Project Scientist/Engineer/Analyst/Manager

Experience : A technical or administrative leader with expertise in one or more technical or business-related areas, attained through education and years of related experience in a particular/or related discipline. Has established a reputation of professional excellence through years of quality work in related or similar endeavors and may have accomplishments in activities, such as peer development and training, awards or certifications, or technical publications, symposia presentations and/or papers. Possesses the ability to undertake and resolve difficult and highly complex projects through research, analysis, and the application of judgment developed from previous experience. Addresses problems that are difficult to define, require unconventional or novel approaches, and require sophisticated analytical techniques. Remains abreast of industry changes or changes in a particular field and introduces best practices into current efforts when applicable. Provides leadership through mentoring and training activities as well as recommending and supporting company-wide policies and programs. Maintains communication with customers and markets existing products, services and company capabilities.

Education Requirement : Bachelor's Degree in Engineering, Computer Science, Information Systems, or other related scientific or technical discipline.

Alternate Experience :

No Degree	Associate's	Bachelor's	Master's	Ph.D.

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Gen	Spec	Gen	Spec	Gen	Spec	Gen	Spec
20	10	15	8	12	6	10	5
4							

Senior Scientist/Engineer/Analyst

Experience : A technical or administrative professional with expertise in one or more technical or business related areas, attained through education and years of experience, some of which are in a particular/or related discipline. Is establishing a reputation for professional excellence through quality work in related or similar endeavors and may have accomplishments in activities, such as peer development and training, awards or certifications, or technical publications or papers. Undertakes many routine program/administrative functions and participates in the resolution of difficult and highly complex projects through the application of established practices and procedures, conduct of research and analysis, and the application of judgement developed from previous experience. Addresses problems that are both routine and difficult to define, requiring the application of established and new approaches, and analytical techniques. Remains abreast of industry changes or changes in a particular field and introduces best practices into current efforts when applicable. Provides leadership through continued self-development, mentoring and training activities, as well as recommending and supporting company-wide policies and programs. Maintains communication with customers and markets existing products, services and company capabilities.

Education Requirement : Bachelor's Degree in Engineering, Computer Science, Information Systems, or other related scientific or technical discipline.

Alternate Experience :

No Degree	Associate's	Bachelor's	Master's	Ph.D.
Gen	Spec	Gen	Spec	Gen
15	8	10	6	8
1				

Scientist/Engineer/Analyst

Experience : A technical or administrative professional with experience in one or more technical or business related areas, attained through education or years of experience, some of which must be in a related discipline. Is establishing a track record for professional excellence through quality work in similar endeavors and/or the receipt of certifications. Undertakes routine program/administrative functions and participates in the resolution of more complex program issues through the application of established practices and procedures and conducting research and analysis. Addresses problems that are both routine and difficult to define, requiring the application of established and new approaches, and analytical techniques. Remains abreast of program/project changes or changes in a particular field and recommends best practices for introduction into current efforts when applicable. Continues self-development through a mentoring relationship and by accessing available training activities. Is aware of, and adheres to, company-wide policies and programs making suggestions for improvements. Maintains communication with customers and markets existing products, services and company capabilities.

Education Requirement : Bachelor's Degree in Engineering, Computer Science, Information Systems, or other related scientific or technical discipline.

Alternate Experience :

No Degree	Associate's	Bachelor's	Master's	Ph.D.
Gen	Spec	Gen	Spec	Gen
10	6	8	5	4
0				

1.6.8.5 Labor pool mix and cost estimates [including labor (by individual category, rate(s), quantity, and total labor cost), travel, equipment rental and supplies] will be provided by the contractor to the government within 7 days based on his analysis of any draft proposed requirements received from the government.

1.6.8.6 The contractor will use the consolidated position descriptions as listed in Section B as a template and will provide a separate entry if multiple labor rates apply (i.e., task is expected to extend through a period when a new labor rate goes into effect, or overtime hours and rate for positions in the proposed labor pool mix that are subject to the Fair Labor Standards Act).

1.6.8.7 The contractor will extract the labor rates for the consolidated positions contained in Section B from the attached hourly labor rates for the appropriate period(s) based on the proposed period of performance for the SOW contained in the draft proposed requirement.

1.6.9 Post Award Conference/Periodic Progress Meetings: The Contractor agrees to attend any post award conference convened by the

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contracting activity or contract administration office in accordance with Federal Acquisition Regulation Subpart 42.5. The contracting officer, Contracting Officers Representative (COR), and other Government personnel, as appropriate, may meet periodically with the contractor to review the contractor's performance. At these meetings the contracting officer will apprise the contractor of how the government views the contractor's performance and the contractor will apprise the Government of problems, if any, being experienced. Appropriate action shall be taken to resolve outstanding issues. These meetings shall be at no additional cost to the government.

1.6.10 Contracting Officer Representative (COR): The (COR) will be identified by separate letter. The COR monitors all technical aspects of the contract and assists in contract administration. The COR is authorized to perform the following functions: assure that the Contractor performs the technical requirements of the contract; perform inspections necessary in connection with contract performance; maintain written and oral communications with the Contractor concerning technical aspects of the contract; issue written interpretations of technical requirements, including Government drawings, designs, specifications; monitor Contractor's performance and notifies both the Contracting Officer and Contractor of any deficiencies; coordinate availability of government furnished property, and provide site entry of Contractor personnel. A letter of designation issued to the COR, a copy of which is sent to the Contractor, states the responsibilities and limitations of the COR, especially with regard to changes in cost or price, estimates or changes in delivery dates. The COR is not authorized to change any of the terms and conditions of the resulting order.

1.6.11 Identification of Contractor Employees: All contract personnel attending meetings, answering Government telephones, and working in other situations where their contractor status is not obvious to third parties are required to identify themselves as such to avoid creating an impression in the minds of members of the public that they are Government officials. They must also ensure that all documents or reports produced by contractors are suitably marked as contractor products or that contractor participation is appropriately disclosed. Contractors will be required to obtain and display appropriate identification for each of the government installations they will be required to perform their duties upon.

1.6.12 Contractor Travel

1.6.12.1 The contractor will travel in accordance with Attachment 0001. Travel shall not exceed the cost stated on the task order. Under no circumstances shall the contractor incur travel costs in excess of the normalized total amount for travel under the contract, without written approval from the Contracting Officer.

1.6.13 Organizational Conflict of Interest: Contractor and subcontractor personnel performing work under this contract may receive, have access to or participate in the development of proprietary or source selection information (e.g., cost or pricing information, budget information or analyses, specifications or work statements, etc.) or perform evaluation services which may create a current or subsequent Organizational Conflict of Interests (OCI) as defined in FAR Subpart 9.5. The Contractor shall notify the Contracting Officer immediately whenever it becomes aware that such access or participation may result in any actual or potential OCI and shall promptly submit a plan to the Contracting Officer to avoid or mitigate any such OCI. The Contractor's mitigation plan will be determined to be acceptable solely at the discretion of the Contracting Officer and in the event the Contracting Officer unilaterally determines that any such OCI cannot be satisfactorily avoided or mitigated, the Contracting Officer may effect other remedies as he or she deems necessary, including prohibiting the Contractor from participation in subsequent contracted requirements which may be affected by the OCI.

PART 2**DEFINITIONS & ACRONYMS****2. DEFINITIONS AND ACRONYMS:****1.4. DEFINITIONS:**

1.4.1. CONTRACTOR. A supplier or vendor having a contract to provide specific supplies or service to the government. The term used in this contract refers to the prime.

1.4.2. CONTRACTING OFFICER. A person with authority to enter into, administer, and or terminate contracts, and make related determinations and findings on behalf of the government. Note: The only individual who can legally bind the government.

1.4.3. CONTRACTING OFFICER'S REPRESENTATIVE (COR). An employee of the U.S. Government appointed by the contracting officer to administer the contract. Such appointment shall be in writing and shall state the scope of authority and limitations. This individual has authority to provide technical direction to the Contractor as long as that direction is within the scope of the contract, does not constitute a change, and has no funding implications. This individual does NOT have authority to change the terms and conditions of the contract.

1.4.4. DEFECTIVE SERVICE. A service output that does not meet the standard of performance associated with the Performance Work Statement.

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- 1.4.5. DELIVERABLE. Anything that can be physically delivered but may include non-physical things such as meeting minutes.
- 1.4.7. KEY PERSONNEL. Contractor personnel that are evaluated in a source selection process and that may be required to be used in the performance of a contract by the Key Personnel listed in the PWS. When key personnel are used as an evaluation factor in best value procurement, an offer can be rejected if it does not have a firm commitment from the persons that are listed in the proposal.
- 1.4.7. PHYSICAL SECURITY. Actions that prevent the loss or damage of Government property.
- 1.4.8. QUALITY ASSURANCE. The government procedures to verify that services being performed by the Contractor are performed according to acceptable standards.
- 1.4.9. QUALITY ASSURANCE Surveillance Plan (QASP). An organized written document specifying the surveillance methodology to be used for surveillance of contractor performance.
- 1.4.10. QUALITY CONTROL. All necessary measures taken by the Contractor to assure that the quality of an end product or service shall meet contract requirements.
- 1.4.11. SUBCONTRACTOR. One that enters into a contract with a prime contractor. The Government does not have privity of contract with the subcontractor.
- 1.4.12. WORK DAY. The number of hours per day the Contractor provides services in accordance with the contract.
- 1.4.12. WORK WEEK. Is defined as Monday through Friday, unless specified otherwise.

1.4.7. ACRONYMS:

ACOR	Alternate Contracting Officer's Representative
AFARS	Army Federal Acquisition Regulation Supplement
AR	Army Regulation
CCE	Contracting Center of Excellence
CFR	Code of Federal Regulations
CONUS	Continental United States (excludes Alaska and Hawaii)
COR	Contracting Officer Representative
COTR	Contracting Officer's Technical Representative
COTS	Commercial Off the Shelf
DA	Department of the Army
DD250	Department of Defense Form 250 (Receiving Report)
DD254	Department of Defense Contract Security Requirement List
DFARS	Defense Federal Acquisition Regulation Supplement
DMDC	Defense Manpower Data Center
DOD	Department of Defense
FAR	Federal Acquisition Regulation
GSS	Ground System Survivability
HIPAA	Health Insurance Portability and Accountability Act of 1996
KO	Contracting Officer
LFT&E	Live Fire Test and Evaluation
OCI	Organizational Conflict of Interest
OCONUS	Outside Continental United States (includes Alaska and Hawaii)
OCP	Occupant Centric Platform
ODC	Other Direct Costs
PAM	Pamphlet
PIPO	Phase In/Phase Out
POC	Point of Contact
PRS	Performance Requirements Summary
PS&T	Physical Simulation and Test
PWS	Performance Work Statement
QA	Quality Assurance
QAP	Quality Assurance Program
QASP	Quality Assurance Surveillance Plan
QC	Quality Control
QCP	Quality Control Program

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TACOM	Tank-automotive & Armaments Command
TARDEC	Tank-Automotive Research, Development and Engineering Center
TE	Technical Exhibit
T&E	Test and Evaluation

PART 3
GOVERNMENT FURNISHED PROPERTY, EQUIPMENT, AND SERVICES

3. GOVERNMENT FURNISHED ITEMS AND SERVICES:

3.1. Services: The Government will provide supporting documents relevant to the execution of required tasks to the contractor within ten (10) working days after receiving the request. All Government furnished reference material, information; data, equipment, hardware, and software provided to the contractor under this statement of work remain the property of the U.S. Government.

3.2 Facilities: The Government will provide access to meetings, briefings, orientations, and on-site test activities as needed. The Government will provide all contractors working at a Government site with office space.

3.3 Utilities: The Government will ensure all utilities in the facility will be available for the contractors use in performance of tasks outlined in this PWS. If utilities are furnished, the following is required: The Contractor shall instruct employees in utilities conservation practices. The contractor shall be responsible for operating under conditions that preclude the waste of utilities, such as turning off the water faucets or valves after using the required amount.

3.4 Equipment: The Government will provide supplies, copiers, fax machines, telephone service, laboratory and/or Automatic Data Processing Equipment (ADPE) facilities, and equipment, as required. The Government will provide all equipment, including Automatic Data Processing (ADP) equipment, necessary for the completion of orders assigned to a Government site under the purview of this SOW.

3.5 Materials: The Government will Standard Operating Procedures and Policies.

PART 4
CONTRACTOR FURNISHED ITEMS AND SERVICES

4. CONTRACTOR FURNISHED ITEMS AND RESPONSIBILITIES:

4.1 General: The Contractor shall furnish all supplies, equipment, facilities and services required to perform work under this contract that are not listed under Section 3 of this PWS.

4.2 Secret Facility Clearance: The contractor shall possess and maintain a SECRET facility clearance from the Defense Security Service. The Contractors employees, performing work in support of this contract shall have been granted a SECRET security clearance from the Defense Industrial Security Clearance Office.

4.3. Materials: The Contractor shall provide all employees working at a contractor site with furnish materials, supplies, and equipment necessary to meet the requirements under this PWS.

4.4. Equipment: The Contractor shall provide all employees working at a contractor site with office space, supplies, reproduction, telephone service, laboratory and/or ADPE facilities, and equipment, as required. The contractor will procure equipment for systems assigned by order to be developed that involve hardware and software. Such procurement will be authorized by either being specifically listed in the order awarded in the Equipment, Rental, and Supplies section or must be approved in advance by the TARDEC PS&T COR. Once these systems are delivered to and accepted by the Government, ownership will be passed to the Government.

PART 5
SPECIFIC TASKS

5. Specific Tasks:

5.1. Basic Services.
Services include:

5.1.1 The contractor shall provide test and evaluation expertise in survivability, lethality, vulnerability, effectiveness, and suitability.

5.1.2 The contractor shall provide non-personal, technical services to TARDEC-PS&T, primarily at TARDEC, but also at various test ranges. Primary areas of technical services support include, but are not limited to: assistance in the timely planning, scheduling, testing, evaluation, analysis, preparation and generation of reports and documents, data acquisition, data validation, data reduction, and data management using standard T&E methodology, and analysis of results using standard engineering calculations, models, and

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performance criteria.

5.1.3 The contractor shall provide non-personal, technical services to TARDEC-PS&T to assist in the development, verification, validation, and accreditation of test methodologies, analytical tools, and processes used in support of survivability, lethality, and vulnerability, effectiveness and suitability test and evaluation.

5.1.4 The contractor shall provide non-personal, technical services support to other DoD or U.S. Government agencies with whom TARDEC-PS&T is either supporting or working. Areas of technical services support include, but are not limited to: timely planning; survivability, lethality, and vulnerability, effectiveness and suitability testing, evaluation, and analysis; and preparation and generation of reports and documents.

5.1.5 The contractor shall perform non-personal services as an independent contractor and not as an agent or employee of the U.S. Government.

5.1.6 The contractor shall provide survivability, lethality, and vulnerability, effectiveness and suitability test and evaluation competency development to the PS&T Team through the use of on the job training, formal training courses, and development of best practices.

5.1.7 Technical Requirement. The contractor shall, provide any or all of the following services.

5.1.7.1 Technical Requirement 1 Test and Evaluation Support.

a. The contractor shall assist TARDEC PS&T Team by providing the survivability, lethality, vulnerability, test and evaluation expertise, and use this expertise to support test officers in: planning, scheduling, preparing, and executing tests in these areas; preparation and generation of reports and documents; data acquisition, validation, reduction, and management using standard T&E methodology; and analysis of test results using standard engineering calculations, models, and performance criteria.

b. The contractor shall assist TARDEC PS&T Team by providing survivability, lethality, vulnerability, effectiveness and suitability test and evaluation expertise and use this expertise to utilize data obtained from the analysis of previously conducted system program tests, results of the test events, and inputs obtained through modeling and simulation (M&S) to augment or interpret the results of each event. The contractor shall maintain and use M&S capabilities such as Modular Unix'-Based Vulnerability Estimation Suite (MUVES), Stochastic Analysis of Fragmentation Effects (SAFE), Advanced Joint Effectiveness Model (AJEM), Parametric Endo/Exoatmospheric Lethality Simulation (PEELS), and Enhanced Lethality End-Game Simulation (ELEGS) for use in the evaluations of system survivability. Other system-specific M&S capabilities shall be incorporated in the evaluation support at the direction of the Contracting Officer's Representative.

5.1.7.2 Technical Requirement 2 Plan Development. The contractor shall assist TARDEC PS&T Team in preparing test plans (e.g., Detailed Test Plans [DTP], Test and Evaluation Master Plans [TEMP], and OTA Test Plans (OTA TPs), and test technology development plans (e.g., Technology Development and Acquisition Program [TDAP] submissions) to include type of tests, test methodology, required accuracy and precision, proposed schedule, and estimated cost. In addition, the contractor shall provide draft input to the development of and/or preparation of the Early Strategy Reviews (ESR), Concept Initial Product Reviews (CIPR), Lens charts, Rock Drills, System Evaluation Plans (SEP), OTA Evaluation Report, and OTA Assessment Report. As part of this support, the contractor shall comply with Army and DoD directives to ensure that decisions necessary for the acquisition process (Milestones (MS) A through MS C) can be achieved from the system test event, simulation, and analysis results. The contractor shall identify methods or procedures that could be applied early in the procurement process that would increase the robustness of the development program and minimize the requirement for expensive, redundant testing at later stages of the program.

5.1.7.3 Technical Requirement 3 Archive Data & Information. The contractor shall distill test data into validated engineering analyses and derivative program management information and archive all three in the VISION Digital Library (VDL) as required.

5.1.7.5 Technical Requirement 5 Test Results Validation, Analysis, and Distillation Support.

The contractor shall analyze technical data including instrumentation readings, calculations, deficiency reports, graphs, and the like to first confirm its inherent technical quality and accuracy, and second to present the distilled information in as clear and complete a manner as possible using Government-directed formats.

5.1.7.6 Technical Requirement 6 Report and Briefing Support. The contractor shall assist in providing draft documentation inputs to TARDEC PS&T Team. This assistance shall include preparation of draft input to test and evaluation documentation such as interim and draft detailed test plans and final individual subtest or integrated test reports of test program results in Government-directed formats. The contractor shall also organize and develop draft briefing charts and slides in either electronic or hard copy as required by TARDEC PS&T Team to brief test and evaluation strategies, plans, results, analysis of results, and impact on military programs to other DoD agencies or customers. To accomplish this task the contractor shall prepare spreadsheets, graphs, and tables of analyzed data using Microsoft Office, PTC MathCAD, and Adobe Professional Writer (or other software as may be adopted by the U.S. Army as its standard). In addition, the contractor shall also provide assistance to the government in meetings involving ATECs test and evaluation mission. Also see paragraph 3.4 that applies to this requirement.

5.1.7.7 Technical Requirement 7 Test and Test Technology Development Support. The contractor shall provide on-site range support to TARDEC PS&T Team at the test center and at other sites where TARDEC PS&T Team is conducting survivability, lethality, vulnerability, effectiveness, and suitability test and evaluation and test technology development activities. At a minimum, the contractor shall assist,

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as requested, with a real-time technical analysis of proposed/executed testing and test technology in terms of the test capabilities and methodologies to meet objectives (e.g., typically, but not limited to, assessing a systems compliance with customer stipulated performance criteria), and compliance with accepted engineering standards.

a. For professional engineering support services to be provided by the contractor to TARDEC PS&T Team (or any TARDEC PS&T Team customer), the contractor shall prepare a draft report to the TARDEC PS&T Team Contracting Officers Representative (COR), and to the appropriate Program Manager, named in the order, in a Government-directed format formalizing completion of analyses within 60 days or other such period as may be directed in the order or by the TARDEC PS&T Team COR.

b. For professional engineering support services to be provided to TARDEC PS&T Team, the contractor shall prepare a draft report to the TARDEC PS&T Team Contracting Officers Representative (COR), and to the appropriate Program Manager, named in the order, in a Government-directed format formalizing completion of analyses within 60 days or other such period as may be directed in the order or by the TARDEC PS&T Team COR.

c. Also see paragraph 3.4 that applies to this requirement.

5.1.7.8 Technical Requirement 8 - Meeting Support. The contractor shall coordinate, schedule, and facilitate program meetings/briefings with other DoD agencies and their contractors who are cooperating in the specified military system or IUT test and evaluation programs as directed in the order or by the TARDEC PS&T Team COR. The contractor shall assist TARDEC PS&T Team in organizing, planning, and establishing the meeting agenda, inviting key participants, and preparing and distributing minutes of the meeting. The minutes of the meeting shall be reviewed and approved by the COR for TARDEC PS&T Team (or any TARDEC PS&T Team customer) orders. The contractor shall host meetings as required at the contractors facility. Additionally, the contractor shall organize and coordinate critical action items identified during the meetings with the TARDEC PS&T Team COR. The contractor shall also be required to attend meetings and briefings as determined by the COR for TARDEC PS&T Team. Also see paragraph 3.4 that applies to this requirement.

5.1.7.9 Technical Requirement 9 - Verification, Validation, and Accreditation (VV&A) Support. The contractor shall provide the VV&A of techniques and data utilized in assessing the effectiveness, suitability and survivability of weapon systems. This support shall include the comparison of data from previously conducted tests with results obtained from M&S. The contractor shall also investigate and report the applicability of previous VV&A efforts for current test programs. Preparation of V&V reports and plans and accreditation reports and plans IAW AR 5-11, ATEC

Regulation 73-21, and DA PAM 5-11 shall also be included in this support. Also see paragraph 3.4 that applies to this requirement.

5.1.7.10 Technical Requirement 10 - Technical Inquiry Support. The contractor shall conduct literature and database searches, as required, identify and obtain reports and data pertinent to TARDEC PS&T Teams planning and execution of system test and evaluations of acquisition programs.

Support may also require the contractor to present training briefings on specific ballistic and non-ballistic survivability-related topics.

5.1.7.11 Technical Requirement 11 - Program Coordination Support. The contractor shall assist TARDEC PS&T Team by providing program coordination for programs being worked under the terms of the contract. The program coordination includes gathering of current program schedules, test events, deliverables, action items from meetings, and the coordination of issues that need to be resolved and/or require response from TARDEC PS&T Team. The contractor shall have the ability to manage multiple timelines and deliverables, and track multiple schedules and multiple deliverables. The contractor shall be responsible for prioritizing work-authorized requirements in accordance with scheduled delivery dates to ensure timeliness and efficiency of contract support.

5.1.7.12 Technical Requirement 12 - Identify Issues. The contractor shall develop draft critical program related issues directly related to the non-ballistic survivability, ballistic vulnerability and lethality (including live fire) and performance of specified systems. These draft issues will be derived from an assessment of the threat, consideration of how the weapon system will be deployed on the battlefield, and analysis of data previously compiled on the system or similar systems. The contractor shall use existing data resources and modeling and simulation techniques to develop ballistic and non-ballistic survivability evaluation and analysis approaches. The contractor shall identify data voids and these voids will be assessed for their importance to the overall system's non-ballistic survivability, ballistic vulnerability and lethality (including live fire) and performance using modeling and simulation tools identified by the Government.

5.2 CONTRACTOR MANPOWER REPORTING (CMR): The Office of the Assistant Secretary of the Army (Manpower & Reserve Affairs) operates and maintains a secure Army data collection site where the Contractor shall report ALL Contractor manpower (including subcontractor manpower) required for performance of this contract. The Contractor shall completely fill in all the information in the format using the following web address <https://Contractormanpower.army.pentagon.mil>. The required information includes: (1) Contracting Office, Contracting Officer, Contracting Officers Technical Representative (COTR) or also know as the Contracting Officers Representative (COR); (2) Contract number, including task and delivery order number; (3) Beginning and ending dates covered by reporting period; (4) Contractor's name, address, phone number, e-mail address, identity of Contractor employee entering data; (5) Estimated direct labor hours (including sub-Contractors); (6) Estimated direct labor dollars paid this reporting period (including sub-Contractors); (7) Total payments (including sub-Contractors); (8) Predominant Federal Service Code (FSC) reflecting services provided by Contractor (and separate predominant FSC for each sub-Contractor if different); (9) Estimated data collection cost; (10) Organizational title associated with the Unit Identification Code (UIC) for the Army Requiring Activity (the Army Requiring Activity is responsible for providing the Contractor with its UIC for the purposes of reporting this information); (11) Locations where Contractor and sub-Contractors perform the work (specified by zip code in the United States and nearest city, country, when in an overseas location, using standardized nomenclature provided on website); (12) Presence of deployment or contingency contract language; and (13) Number of

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Contractor and sub-Contractor employees deployed in theater this reporting period (by country). As part of its submission, the Contractor shall provide the estimated total cost (if any) incurred to comply with this reporting requirement. Reporting period shall be the period of performance not to exceed 12 months ending September 30 of each government fiscal year and must be reported by 31 October of each calendar year. Contractors may use a direct XML data transfer to the database server or fill in the fields on the website. The XML direct transfer is a format for transferring files from a Contractors system to the secure website without the need for separate data entries for each required data element at the website. The specific formats for the XML direct transfer may be downloaded from the website.

PART 6

APPLICABLE PUBLICATIONS

6. APPLICABLE PUBLICATIONS (CURRENT EDITIONS)

6.1. The Contractor must abide by all applicable regulations, publications, manuals, and local policies and procedures to include:

MIL STD 810G
ATEC PAM 73-1
ATEC REG 73-1
AR 73-1
DA PAM 73-1
Defense Acquisition Guidebook
DoD 5000.01
DoD 5000.02
DoD Strategic Plan For DoD T&E Resources
JCIDS Manual
DAU Test and Evaluation Management Guide
DUSA-TE The 2013-2014 Army Test and Evaluation Enterprise Strategy

*** END OF NARRATIVE C0001 ***

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SECTION G - CONTRACT ADMINISTRATION DATA

LINE	MIPR/ <u>ITEM</u>	OBLG <u>STAT</u>	JO NO/ <u>ACCT ASSIGN</u>	ACRN	PRIOR AMOUNT	INCREASE/ <u>DECREASE</u>	CUMULATIVE <u>AMOUNT</u>
0011AD	R35JL006R3 F2VUF04350GW01	1		AB \$	0.00 \$	177,890.80 \$	177,890.80
0011AE	R35JL006R3 F2VUF04350GW01	2		AB \$	0.00 \$	17,966.24 \$	17,966.24
NET CHANGE						\$ 195,857.04	

ACRN	ACCOUNTING CLASSIFICATION	INCREASE/ <u>DECREASE</u>
AB 97	5030056SFSD552SP24J64BN57815 00000F387700	\$ <u>195,857.04</u>
NET CHANGE		\$ 195,857.04

	PRIOR AMOUNT <u>OF AWARD</u>	INCREASE/DECREASE <u>AMOUNT</u>	CUMULATIVE <u>OBLIG AMT</u>
NET CHANGE FOR AWARD:	\$ 1,206,496.22	\$ 195,857.04	\$ 1,402,353.26

LINE	ACRN	EDI/SFIS ACCOUNTING CLASSIFICATION
0011AD	AB 97	1517030056SF F87700 SD552SPN5781524J64B 00000F387700 F2VUF04350GW01
0011AE	AB 97	1517030056SF F87700 SD552SPN5781524J64B 00000F387700 F2VUF04350GW01

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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 0001	TRAVEL	29-APR-2014	001	EMAIL