

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

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PIIN/SIIN W56HZV-12-C-0318

MOD/AMD P00002

Name of Offeror or Contractor: DIVERSIFIED TECHNICAL SYSTEMS, INC.

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: MONTY MCCLELLAND
Buyer Office Symbol/Telephone Number: CCTA-ASG-B/(586)282-9750
Type of Contract: Firm Fixed Price
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
Contract Expiration Date: 2014SEP26

*** End of Narrative A0000 ***

PURPOSE OF MODIFICATION: EXTEND PERIOD OF PERFORMANCE & UPDATE SCOPE

PRIOR CONTRACT AMOUNT: \$2,393,808.00
CHANGE IN CONTRACT AMOUNT: \$ 0.00
CURRENT CONTRACT ACTION: \$2,393,808.00

1. The purposes of this bilateral contract modification P00002 are to:

- A. Extend the contract's period of performance by 3 months at no additional cost to the Government;
- B. Update the scope of work; and
- C. Add the Contractor Manpower Reporting (CMR) language as Section C.7.

As compensation for the delay in performance, the contractor has agreed to perform additional scope at no additional cost to the Government as underlined in Section C.

2. To accomplish these purposes the contract is changed as follows:

- A. Section B - extend performance completion date on SubCLINs 2001CR, 2002CR, & 2003CR by 3 months from 26-Sept-2014 to 26-Dec-2014.
- B. Section C narrative updated as follows:
 - 1) Sections C.3.1.14, C.3.2.2, & C.3.4.4 added at no additional cost to the Government as consideration for period of performance extension.
 - 2) CMR language added as Section C.7.
 - 3) Not Later Than (NLT) contract completion references updated to twenty-seven months after contract award.
- C. Section F - extend F.11 period of performance timeframe by 3 months from 'twenty-four (24) months' to 'twenty-seven (27) months' after contract award date.

3. As a result of this modification the total contract amount remains UNCHANGED.

4. All other terms and conditions as previously modified remain UNCHANGED and in full force and effect.

*** END OF NARRATIVE A0002 ***

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Name of Offeror or Contractor: DIVERSIFIED TECHNICAL SYSTEMS, INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT						
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS										
2001	Occupant Platform										
2001CR	<p><u>PHASE II - FIRM FIXED PRICE EFFORT</u></p> <p>SERVICE REQUESTED: Occupant Platform CLIN CONTRACT TYPE: Firm Fixed Price PRON: R312C220R3 PRON AMD: 02 ACRN: AA AMS CD: 644775DT700 PSC: AZ11</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>26-DEC-2014</td> </tr> </table> <p style="text-align: right;">\$ 1,293,577.00</p>	DLVR SCH	PERF COMPL	<u>REL CD</u> <u>QUANTITY</u>	<u>DATE</u>	001 1	26-DEC-2014	1	LO		\$ 1,293,577.00
DLVR SCH	PERF COMPL										
<u>REL CD</u> <u>QUANTITY</u>	<u>DATE</u>										
001 1	26-DEC-2014										

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Name of Offeror or Contractor: DIVERSIFIED TECHNICAL SYSTEMS, INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT

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Name of Offeror or Contractor: DIVERSIFIED TECHNICAL SYSTEMS, INC.		

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

STATEMENT OF WORK
 Development of Sensor Technology for Underbody Blast (UBB)
 Live Fire Test and Engineering

C.1 BACKGROUND

The Tank-Automotive Research, Development and Engineering Center (TARDEC) develops, integrates and sustains technology solutions for all manned and unmanned Department of Defense (DoD) ground systems and combat support systems to improve Current Force effectiveness and provide superior capabilities for the Future Force. The Ground Systems Survivability (GSS) Blast Mitigation Interiors Team (BMI) requires improved capabilities to evaluate, optimize, and integrate occupant protection systems into current and future Army ground vehicles that mitigate injury due to underbody blast events. The addition of these capabilities shall create a state-of-the-art laboratory for occupant protection at TARDEC, available to all DoD organizations.

Existing data acquisition technologies do not collect data fast enough to enable accurate evaluation of the response of occupants and technologies during an Underbody Blast (UBB) event. This effort will develop equipment and procedures for testing UBB events more accurately by developing systems capable of recording data at a high rate and developing a Standard Operating Procedure (SOP) for UBB testing.

Currently, a commercial product that fulfills all the Governments requirements is not available. Therefore, the development of this specialized test equipment is required.

C.2 OBJECTIVE

The objective of this effort is to develop high sample rate Data Acquisition System (DAS), as defined in Section C.3.1.1. The DAS developed shall be capable of utilization in UBB Live Fire Test and Engineering (LFT&E) events. The DAS shall be fully modular, and capable of being arranged in a variety of configurations. The DAS shall be no bigger than 52 x 90 x 85 millimeters (mm) per nine-channel block and be capable of being fully contained within the vehicle being tested. This effort will be divided into the following tasks:

- C.2.1 Develop an On-Vehicle mega-sample DAS for Government-conducted Vehicle Blast Testing
- C.2.2 Develop a miniaturized version of the mega-sample DAS system
- C.2.3 Develop a six-degree of freedom (6DOF) sensor and software package for calculating three-dimensional (3D) kinematics in testing
- C.2.4 Conduct a study and report on the most advanced level of sensor types, as defined in Section C.3.4.1
- C.2.5 Develop a standard operating procedure (SOP) and test tools for conducting remote site blast testing

C.3 TASKS

The Contractor, as an independent contractor, and not as an agent of the Government, shall provide all necessary labor, materials, supplies, services, facilities and equipment to perform specific work required under this SOW, unless otherwise specified in the SOW.

C.3.1 DEVELOP AN ON-VEHICLE MEGA-SAMPLE DAS FOR GOVERNMENT-CONDUCTED VEHICLE BLAST TESTING

The contractor shall develop and deliver a quantity of two mega-sample DASs with a minimum of 36 channels and with the following capabilities to allow for Government-conducted vehicle blast testing:

- C.3.1.1 Sampling Rate: The DAS shall record data at a rate of one million samples per second per channel (one megahertz (MHz) per channel), as defined in Section C.5.14.
- C.3.1.2 Bandwidth: The DAS shall have an analog bandwidth from Direct Current (DC) (0 hertz (Hz)) to approximately one-fifth the sampling rate.
- C.3.1.3 Anti-Aliasing: The DAS shall automatically select an appropriate anti-alias filter (per SAE J211) based on the sample rate selected by the user.
- C.3.1.4 Record Time and Memory: The DAS shall record for a minimum total time period of three minutes and receive a time zero signal to indicate the time of blast detonation. An acceptable signal format would be contact closure. The DAS shall utilize non-volatile memory to store data collected until it is downloaded to a computer. The memory shall keep the recorded data even if power is lost to the DAS or the DAS is disconnected from the system.

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C.3.1.5 Communications: The DAS shall communicate with standard Microsoft Windows based (Windows Vista or higher) computing systems via Universal Serial Bus (USB) 2.0 and Ethernet, utilizing a standard Registered Jack 45 (RJ45) connector on Category 5 (CAT5) cable.

C.3.1.6 Sensor Support: The DAS shall support (accept and store input from) all sensor types used in vehicles and manikins, including accelerometers, pressure sensors, angular rate sensors, load cells, and strain gauges.

C.3.1.7 Transducer Electronic Data Sheet (TEDS) Support: The DAS shall use auto-identifying electronic identification and conform to the Institute of Electrical and Electronics Engineers (IEEE) 1451.

C.3.1.8 Size: The DAS Sensor Input Module (SIIM) threshold size shall be no larger than 90 x 52 x 85 millimeters (mm) for each nine-channel block.

C.3.1.9 Channel Count: The DAS shall be modularly designed to allow any number of channels to be collected as follows:

C.3.1.9.1 Manikin Tests: up to 384 channels

C.3.1.9.2 Vehicle Tests: up to 3,000 channels

C.3.1.10 Packaging, Connectors, and Blast Durability: The cabling from the sensors to the DAS shall be designed to mount entirely within the interior of a vehicle and manikin versus off-board with cabling to the vehicle. The DAS shall survive a minimum of 50 high acceleration loads up to 4,000 g from blast, crash, and rollover events without damage or degradation of the DAS, connectors, or data without the need for repair or recalibration. Any material required to ensure continued operation of the DAS shall be incorporated internally to the DAS. Additionally, DAS connectors shall remain physically and electrically connected during blast, crash, and rollover events.

C.3.1.11 Software: The DAS shall include a software package IAW Section C.5.5 for setting up, monitoring, and downloading and viewing data acquired within the DAS.

C.3.1.12 Training: The contractor shall provide training for up to ten Government personnel not later than (NLT) twenty-seven months after contract award on all aspects of the DAS system to include setup, arming, data collection and downloading, and data analysis. All Government personnel must be trained in a single session; there will be no additional training sessions for Government personnel that are unavailable on the agreed-upon date. Upon completion of the DAS design and test, the contractor shall conduct this training at TARDEC in Warren, Michigan and provide training materials in accordance with (IAW) Section C.5.7.

C.3.1.13 Modeling & Simulation: The contractor shall conduct modeling & simulation (M&S) to verify the DAS developed is capable of (i) selecting the correct anti-alias filter (IAW Section C.3.1.3) and bandwidth (IAW Section C.3.1.2); and (ii) supporting the required channel count (IAW Section C.3.1.9). Resultant data shall be delivered IAW Section C.5.3.

C.3.1.14 The contractor shall perform a system test on the battery element to ensure the battery functions properly and provide these results into a final report IAW Section C.5.14.

C.3.2 DEVELOP A MINIATURIZED VERSION OF THE DAS SYSTEM FOR IN-MANIKIN USE

The contractor shall miniaturize the DAS developed in Section C.3.1 and integrate it into a Hybrid III test manikin (reference Section C.3.2.1.2). The miniaturized DAS shall conform to the following requirements:

C.3.2.1 System Specifications: The miniaturized DAS shall conform to all of the requirements of Task C.3.1 above except as follows:

C.3.2.1.1 Size: The miniaturized DAS SIM threshold size shall be 26 x 31 x 15 mm per three channels of data collection.

C.3.2.1.2 Manikin Integration: The contractor shall integrate the miniaturized DAS into a Government furnished Hybrid III manikin (reference Section 6.0). The integration shall include 72 channels for sensors as well as all cables, distributors and associated equipment for interface with the DAS system in Section C.3.1 (reference Sections C.5.15 and C.5.16). The Government shall provide the sensors to be used for integration NLT 60 days after contract award IAW Section C.6 below.

C.3.2.1.3 Software: The contractor shall update the software package developed under Section C.3.1.11 to reflect the miniaturized DAS and shall deliver the software IAW Section C.5.5.

C.3.2.1.4 Training: The contractor shall provide training for up to ten Government personnel NLT twenty-seven months (dependent upon Government personnel availability) after contract award on all aspects of the miniaturized DAS system to include setup, arming, data collection and downloading, and data analysis. All Government personnel must be trained in a single session; there will be no additional training sessions for Government personnel that are unavailable on the agreed-upon date. Upon completion of the miniaturized DAS design and test, the contractor shall conduct this training at TARDEC in Warren, Michigan and provide training materials IAW Section C.5.7.

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C.3.2.2 The contractor shall perform a temperature study (with armed DAS) and provide test results prior to returning manikin and include these results into a final report IAW Section C.5.16.

C.3.3 DEVELOP A SIX-DEGREE OF FREEDOM (6DOF) SENSOR AND SOFTWARE PACKAGE FOR CALCULATING 3D KINEMATICS IN TESTING

The contractor shall develop a 6DOF sensor and software package for installation in test manikins for recording and calculating 3D kinematics in blast testing, and build and deliver a quantity of three such sensor/software packages. Each sensor package shall be capable of being mounted within the test manikin within the vehicle and accurately recording and calculating the motion of the object it is mounted on during the blast event. Per Section C.3.1.10, the 6DOF sensor shall be designed to mount entirely within the interior of the manikin. The 6DOF package shall conform to the following requirements:

C.3.3.1 System Requirements: The 6DOF package shall conform to all of the requirements of Sections C.3.1.7 and C.3.1.10, except as delineated below:

C.3.3.1.1 Size: The 6DOF package shall be no larger than 19 x 19 x 16 mm.

C.3.3.1.2 Sensors: The 6DOF package shall consist of six sensors (three accelerometers and three angular rate sensors) mounted to record data in all three axial directions (x-direction, y-direction, and z-direction) and shall be delivered IAW Section C.5.17.

C.3.3.1.3 Sensor ranges: The accelerometers shall have a full scale range of +/- 20,000 g and the angular rate sensors shall have a range of +/- 50,000 degrees per second.

C.3.3.1.4 Sensor Identification: The sensors of the 6DOF package shall have TEDS capability as described in Section C.3.1.7.

C.3.3.1.5 Mounting: The 6DOF package shall be capable of being mounted anywhere within the test manikin, to include the manikin head, manikin arms/hands, and manikin legs/feet. The 6DOF package shall not affect or alter the mass, center of gravity, or behavior of the object it is mounted to during the blast event.

C.3.3.1.6 Data Collection Software: The data collected from the 6DOF package shall be routed to the DAS and feed into the data analysis software per Section C.3.1.11 to collect the data during blast events. The software shall be delivered IAW Section C.5.6.

C.3.3.1.7 Software: The data collected from the 6DOF packages shall be input into an analysis software package IAW Section C.5.5 to analyze, track, and view the motion of the object during the blast event.

C.3.3.1.7.1 The analysis software package shall be capable of analyzing the data collected by the 6DOF packages to determine position, velocity, and acceleration of the object it is mounted to during the blast event.

C.3.3.1.7.2 The analysis software package shall be capable of graphing the position, velocity and acceleration on a 3D graph for the length of the blast event.

C.3.3.1.8 Training: The contractor shall provide training for up to ten Government personnel NLT twenty-seven months (dependent upon Government personnel availability) after contract award on all aspects of the 6DOF packages to include setup, arming, data collection and downloading, and data analysis. All Government personnel must be trained in a single session; there will be no additional training sessions for Government personnel that are unavailable on the agreed-upon date. Upon completion of the 6DOF design and test, the contractor shall conduct this training at TARDEC in Warren, Michigan and provide training materials IAW Section C.5.7.

C.3.4 CONDUCT A STUDY AND REPORT ON THE MOST ADVANCED LEVEL OF SENSOR TYPES, CABLING, SAMPLE RATE, BANDWIDTH AND OTHER REQUIREMENTS

The Contractor shall conduct a study of Commercial Off-the-Shelf (COTS) sensors to determine what sensor types, models, cables, sample rates, and other requirements are appropriate for UBB LFT&E as follows: appropriate meaning the sensors record accurate data, are not damaged during the tests, and can record the peak values of the test data. As part of the study, the Contractor shall perform laboratory and field testing on the selected sensors to assess their performance.

C.3.4.1 The contractor shall develop a test plan to test COTS sensors including accelerometers, pressure sensors, load cells, force gauges, and electronic pulse measuring devices. The contractor shall acquire the types of sensors listed in the table below. The contractor shall develop a test plan IAW Section C.5.1 for evaluating sensor performance. The test plan shall include the COTS sensors proposed for testing, as well as linearity, crosstalk, temperature drift, cabling/noise, and frequency response testing.

<u>Sensor Type</u>	<u>Quantity (No Less Than)</u>
Accelerometer	30
Pressure Transducer	10
Load Cell	10
Angular Rate Sensor	6
Electro-Magnetic Pulse Sensor	12

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Strain Gauge 20

C.3.4.2 The contractor shall acquire the COTS sensors identified after Government review and approval of the test plan and sensor list IAW Section C.3.4.1. Subsequent schedule is dependent upon review and approval of the test plan and sensor list by the Government NLT two weeks of receipt from contractor.

C.3.4.3 The contractor shall test the COTS sensors according to the test plan developed per Section C.3.4.1 and approved per C.3.4.2, and compile the test results into a final report IAW Section C.5.2. The report shall detail tests performed, the performance of each of the sensors, and overall findings and recommendations of which sensors to use in LFT&E events.

C.3.4.4 The contractor shall perform additional sensor testing and analysis to confirm initial results and provide these results into a final report IAW Section C.5.2.

C.3.5 DEVELOP A STANDARD OPERATING PROCEDURE (SOP) AND TEST TOOLS FOR CONDUCTING REMOTE SITE BLAST TESTING.

The contractor shall develop a Standard Operating Procedure (SOP) IAW Section C.5.4 for setting up and conducting blast tests with a focus on reliably and accurately collecting high sample rate vehicle and manikin data. This task will also include the design and build of two sets of accessory items that allow test engineers to monitor the status of the DAS prior to, during, and after the blast event.

C.3.5.1 The SOP developed shall include:

C.3.5.1.1 Recommendations for test setup, including sensor placement locations within the vehicle and mounting, cabling, grounding and database recommendations.

C.3.5.1.2 Recommendations for software preparation, including setup computer/DAS, set sampling rate, DAS checkout/arming procedures and a pre-test checklist.

C.3.5.1.3 Post-test procedures, including data validation and equipment checkout, defined as verifying condition of equipment following the test event, and if any equipment was damaged, determining the effect on the data collected.

C.3.5.2 Communication Equipment: The contractor shall design and build two sets of status communication hardware IAW Section C.5.18 for conducting remote blast testing. The equipment developed shall be ruggedized to be capable of being mounted on the vehicle being tested and surviving test blast events. The communication equipment shall report the current status of the DAS to the test engineer, who will be located in a blast bunker, either visually, or through wireless Ethernet up until the moment of detonation for the blast test.

C.3.5.3 Training: The contractor shall provide training for up to ten Government personnel on all aspects of the SOP and status communication hardware NLT twenty-seven months (dependent upon Government personnel availability) after contract award, including recommended setup configurations, sensor placement locations, mounting, and cabling, test procedures and DAS setup, post-test procedures, data validation and equipment checkout. All Government personnel must be trained in a single session; there will be no additional training sessions for Government personnel that are unavailable on the agreed-upon date. Upon completion of the SOP, the contractor shall conduct this training at TARDEC in Warren, Michigan and provide training materials IAW Section C.5.5.

C.4 MEETINGS

C.4.1 The contractor shall conduct a Start of Work Meeting (SOWM) with the Government NLT ten business days after contract award subject to Government availability. The contractor shall propose a meeting date, and time to the COR. The meeting shall take place at TARDEC in Warren, MI. The contractor shall supply the COR with a list of contractor meeting participants five business days prior to the scheduled meeting date. The Contractor shall submit a Meeting Agenda IAW Section C.5.8, a Project Schedule in accordance with Section C.5.9, Briefing Materials in accordance with Section C.5.10, Meeting Minutes in accordance with Section C.5.11, and a Work Breakdown Structure IAW Section C.5.12.

C.4.2 The contractor shall conduct bi-weekly contract performance reviews via teleconference at the midpoint and before the end of each month, beginning 30 calendar days after contract award. The contractor shall also provide bi-weekly contract performance reports following each review IAW Section C.5.13.

C.5 DELIVERABLES

C.5.1 The contractor shall deliver a draft test plan developed in Section C.3.4.1 above and IAW CDRL A001.

C.5.2 The contractor shall deliver a final technical report developed in Section C.3.4.3 above and IAW CDRL A002.

C.5.3 The contractor shall deliver Modeling & Simulation results resulting from Section C.3.1.13 above and IAW CDRL A013.

C.5.4 The contractor deliver the SOP as described in Section C.3.5 and IAW CDRL A003.

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C.5.5 The contractor shall deliver DAS / miniature DAS control software IAW Sections 3.1.11, C.3.2.1.3, C.3.3.1.7, and CDRL A004. The software shall include unlimited site licenses.

C.5.6 The contractor shall deliver three 6DOF packages (see Section C.5.17) and data analysis software IAW Section C.3.3.1.6 and CDRL A005. The software shall include unlimited site licenses.

C.5.7 The contractor shall provide training materials IAW Sections C.3.1.12, C.3.2.1.4, and C.3.3.1.8 and CDRL A006.

C.5.8 The contractor shall prepare a Start of Work Meeting (SOWM) agenda IAW Section C.4.1 and CDRL A007.

C.5.9 The contractor shall prepare a project schedule IAW Section C.4.1 and CDRL A008.

C.5.10 The contractor shall prepare SOWM briefing materials IAW Section C.4.1 and CDRL A009.

C.5.11 The contractor shall prepare SOWM minutes IAW Section C.4.1 and CDRL A010.

C.5.12 The contractor shall prepare a WBS IAW Section C.4.1 and CDRL A011.

C.5.13 The contractor shall prepare bi-weekly reports IAW Section C.4.2 and CDRL A012.

C.5.14 The contractor shall deliver two complete 36 channel data acquisition systems (DAS) meeting all the requirements of Section C.3.1 above to TARDEC NLT twenty-seven months after contract award. The systems delivered shall include all components, cables and controllers for DAS utilization.

C.5.15 The contractor shall deliver one miniaturized 72 channel DAS meeting all the requirements of Section C.3.2.1.2 to TARDEC NLT twenty-seven months after contract award.

C.5.16 The contractor shall integrate the miniaturized DAS developed in Section C.3.2.1.2 into a Government furnished Hybrid III test manikin using Government furnished sensors. The contractor shall return the test manikin to the Government no later than twenty four months after contract award for further test and evaluation.

C.5.17 The contractor shall deliver three 6DOF packages meeting all requirements of Section C.3.3.1.2 to TARDEC NLT twenty-seven months after contract award.

C.5.18 The contractor shall deliver two sets of status and communication hardware developed in Section C.3.5.2 above to TARDEC NLT twenty-seven months after contract award.

C.6 GOVERNMENT FURNISHED PROPERTY AND INFORMATION

Specific Government Furnished Property and Information to be provided is/are as follows:

<u>Item</u>	<u>Acq. Value</u>	<u>Quantity</u>	<u>Serial No.</u>	<u>Date Provided</u>
Hybrid III Test Manikin, including sensors for DAS integration	\$250,000	1	N/A	NLT 60 DAC
Blast/Crash Events Information	N/A	1	N/A	SOWM (IAW Section C.4.1)

C.7 Contractor Manpower Reporting

C.7.1 The contractor shall report all contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the U.S. Army via a secure data collection site. The contractor is required to completely fill in all required data fields using the Army CMR site, which you can access by clicking on the "Department of Army CMRA" link from the following gateway web address: <http://www.ecmra.mil/>

C.7.2 Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year, beginning with 2013. Contractors may direct questions to the Army CMR help desk, which can be contacted using the "Send an email" link on the right side of the sign-in screen at the Army CMR site.

C.7.3 Additional information can be found in the clause in this contract entitled CONTRACTOR MANPOWER REPORTING (52.237-4000).

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SECTION F - DELIVERIES OR PERFORMANCE

F.1 PERIOD OF PERFORMANCE

F.1.1 All effort required under this contract, including delivery of the final technical report, shall be completed within twenty-seven (27) months after contract award date.

F.1.2 If there is any conflict between Section B and Section F of this contract, Section F will prevail.

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:

ATTN: Christopher Felczak
Ground Systems Survivability RDECOM TARDEC
6501 E. 11 Mile Rd.
Attn: RDTA-RS/MS 263
Warren, MI 48397-5000

F.4 CONTRACT PHASES

F.4.1 Phase I

Start of Work Meeting Agenda IAW CDRL A007
Project Schedule IAW CDRL A008
Start of Work Briefing Materials IAW CDRL A009
Start of Work Meeting Minutes IAW CDRL A010
Work Breakdown Structure IAW CDRL A011
Bi-Weekly Reports up to 150 DAC IAW CDRL A012
Modeling & Simulation Report IAW CDRL A013
Completion of tasks under Statement of Work Section C.3.4 - 150 DAC

F.4.2 Phase II

Sensor Study Draft Test Plan IAW CDRL A001
Sensor Study Final Report IAW CDRL A002
Blast Standard Operating Procedure IAW CDRL A003
DAS Control Software IAW CDRL A004
6DOF Data Analysis Software IAW CDRL A005
Training Materials IAW CDRL A006
Bi-Weekly Reports after 150 DAC to contract completion IAW CDRL A012
All remaining Statement of Work tasks not completed during Phase I - IAW delivery dates listed in Statement of Work, Section C.

*** END OF NARRATIVE F0001 ***