

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**1. Contract ID Code  
Cost No Fee

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2. Amendment/Modification No.

0002

3. Effective Date

2014JUL18

4. Requisition/Purchase Req No.

SEE SCHEDULE

5. Project No. (If applicable)

6. Issued By

U.S. ARMY CONTRACTING COMMAND  
 PATRICIA ROUSSIN  
 WARREN, MICHIGAN 48397-5000  
 HTTP://CONTRACTING.TACOM.ARMY.MIL

Code

W56HZV

7. Administered By (If other than Item 6)

Code

8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)

9A. Amendment Of Solicitation No.

W56HZV-14-R-0298

9B. Dated (See Item 11)

2014JUL10

10A. Modification Of Contract/Order No.

10B. Dated (See Item 13)

Code

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 2 signed 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)

**13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS**

It Modifies The Contract/Order No. As Described In Item 14.

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

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).

C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of:

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)

15B. Contractor/Offeror

15C. Date Signed

16B. United States Of America

16C. Date Signed

(Signature of person authorized to sign)

By \_\_\_\_\_ /SIGNED/  
(Signature of Contracting Officer)

NSN 7540-01-152-8070

30-105-02

STANDARD FORM 30 (REV. 10-83)

PREVIOUS EDITIONS UNUSABLE

Prescribed by GSA FAR (48 CFR) 53.243

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-14-R-0298 <b>MOD/AMD</b> 0002	<b>Page</b> 2 <b>of</b> 6
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**Name of Offeror or Contractor:**

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: PATRICIA ROUSSIN  
Buyer Office Symbol/Telephone Number: CCTA-ASG-C/(586)282-5722  
Type of Contract: Cost No Fee  
Kind of Contract: Service Contracts

\*\*\* End of Narrative A0000 \*\*\*

1. The purpose of Amendment 0002 is to revise Section C, Description/Specification/Work Statement, by removing paragraph C.7 Security Clearances.
2. FAR 52.204-2 is hereby removed from Section I, Contract Clauses.
3. The closing date of this solicitation will not be extended.

\*\*\* END OF NARRATIVE A0003 \*\*\*

**Name of Offeror or Contractor:**

## SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

## C.1 SCOPE OF WORK (SOW) for WEIGHT REDUCTION EFFORT

C.1.1 The Contractor, as an independent Contractor and not as an agent of the Government, shall furnish the supplies and services for the level of effort (LOE) in section B to accomplish engineering and other related technical services required for the LAV-25 Weight Reduction Effort. The activities performed by the Contractor may be in support of any aspect of TARDECs mission to create a more lightweight, lethal, and survivable fleet.

## C.2 OVERVIEW and GENERAL TASKS/EFFORTS

C.2.1 Overview: Under this SOW, the Contractor will be required to work on furthering the development and implementation of light-weighting technologies into Army platforms. An example is: a brake rotor for a tactical ground vehicle with a ground vehicle weight (GVW) greater than 17,000 pounds made with alternative materials or processes.

C.2.2 Tasks/efforts: The following are the minimum tasks required of the Contractor under this level-of-effort (LOE) contract.

- (1) General Engineering
- (2) Modeling and Simulation (M&S)
- (3) Design and Engineering Analysis
- (4) Engineering Drawings
- (5) Processing
- (6) Optimization
- (7) Testing and Test Support

## C.3 GENERAL ENGINEERING

Work directives may include: feasibility and trade-off studies; concepts; market studies; design efforts; redesign efforts; weight reduction efforts; reengineering efforts; development of hardware; fabrication of hardware, software and prototypes; and necessary testing. The Contractor shall fabricate, procure, install or otherwise provide, on a limited basis, hardware (prototype, development or off-the-shelf) or components, kits and assemblies that may be required to support Work Directive activity. The Contractor shall conduct applied research; develop conceptual and advanced concepts; develop engineering designs; fabricate prototype hardware; and perform laboratory, field and vehicle tests as necessary to conduct and support research and development of additive manufacturing processes for tactical vehicle light-weighting. The Contractor shall provide qualified personnel necessary to support engineering data, test planning, and technical exchange meetings required by each Work Directive. The work performed may also include engineering support for system development.

C.3.1 MODELING and SIMULATION (M&S): When appropriate, the Contractor shall utilize standard modeling and simulation (M&S) tools, including: Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), and Finite Element Analysis (FEA). Any software created, or enhanced for, work directive tasks under this contract shall be delivered to the Government IAW CDRL A005.

C.3.2 DESIGN AND ENGINEERING ANALYSIS: The Contractor shall conduct all analyses required by Work Directive IAW standard commercial practices. Required analyses include: structural analysis; fatigue analysis; failure analyses; cost, schedule and performance analyses.

## C.3.3 ENGINEERING DRAWINGS

C.3.3.1 The Contractor shall prepare and maintain engineering drawings, specifications, and other technical data comprising the configuration baseline for Government-approved projects under this Contract IAW CDRL A008.

C.3.3.2 The Contractor shall provide exploded view drawings of hardware and assemblies required by Work Directives.

C.3.3.3 In order to expedite and make a robust technical data package (TDP), the Contractor shall provide to the Government 3-Dimensional native drawings-CAD drawings. These drawings shall include all data needed to have full control of the CAD files-and 2-Dimensional drawings when required by applicable Work Directive.

## C.3.4 PROCESSING

C.3.4.1 Process Development: The Contractor shall develop all necessary processes to complete tasks pursuant to an issued Work Directive.

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C.3.5 OPTIMIZATION

C.3.5.1 The Contractor shall optimize the components generated under this contract to be manufactured using low-cost tooling and processes.

C.4 TESTING AND TEST SUPPORT

C.4.1 The Contractor shall conduct all tests IAW standard commercial practices, unless otherwise directed through Work Directives. These tests shall include: fatigue testing; structural testing; static, dynamic and cyclic loading; tensile testing; compression testing; fracture toughness; other standard commercial tests; and any tests required by applicable Work Directive. IAW CDRL A002, the Contractor shall develop and submit to the COR test plans for approval by the COR.

C.4.2 If testing is to be performed at a Government facility or proving ground, the Contractor shall provide support to the Government IAW individual work directive tasks.

C.5 PROGRAM MANAGEMENT

C.5.1 Data Deliverables: As specified in Exhibit A, DD Form 1423 Contract Data Requirements List (CDRL), data items A001 through A008: The Contractor shall prepare, reproduce, assemble, package and deliver data items, including monthly progress and status reports (costs, schedule, contractual management and work directive status) IAW CDRL A001, test plans IAW CDRL A002, work directive final reports IAW CDRL A003, test results IAW CDRL A004, software IAW CDRL A005, presentation materials IAW CDRL A006, conference and meeting minutes IAW CDRL A007, and product drawings IAW CDRL A008 .

C.5.1.2 Contractors Progress, Status and Management Report, subtitled Monthly Reports: The Contractor shall submit monthly reports IAW CDRL A001. These reports shall provide the Government with the means to evaluate and monitor the progress made by the Contractor in accomplishing assigned tasks under Work Directive in terms of cost and performance.

C.5.1.3 Test Plan: The Contractor shall submit test plans in the Contractors format when directed by the work directive IAW CDRL A002. The test plans shall include the item or system being tested; objective of the testing; the location where testing will be conducted to include the details (description, nomenclature, and serial number) of any equipment to be used; the Contractors name and contract number; a schedule of the testing; the parameters being tested, controlled, and optimized through the testing and experimentation; success and failure criteria that apply; procedure for each test activity; details of any instrumentation to be used; and description of the data to be recorded and how the data will be reduced and analyzed.

C.5.1.4 Scientific and Technical Reports Summary, Subtitled Work Directive Final Reports: The Contractor shall submit Work Directive Final Reports IAW CDRL A003. The reports shall describe the precise nature and results of the tasks pursued under the Work Directive. The reports shall describe the technical issues pertinent to the task and detail the necessary steps, if any, required to further improve the item or study requested in the Work Directive.

C.5.1.5 Contractors Progress, Status and Management Report, subtitled Scientific and Technical Reports: The Contractor shall submit Scientific and Technical Reports IAW CDRL A004. The reports shall describe the precise nature and results of the tasks pursued under the Work Directive. The discussion shall describe the technical issues pertinent to the task completely and detail the necessary steps, if any, required to further improve the item or study requested in the Work Directive.

C.5.1.5.1 Test Results Report: The Contractor shall prepare and provide the COR with test results IAW CDRL A004. The test results will demonstrate the fatigue performance, load carrying capability, thermal expansion, and other properties to determine whether the physical properties of the components tested.

C.5.1.6 Software: The Contractor shall deliver to the Government IAW CDRL A005 any new software, or enhancement to commercially available software, developed in the course of executing tasks under an applicable work directive issued under this Contract.

C.5.1.7 Presentation Materials: The Contractor shall deliver presentation materials within fourteen (14) days of the request, IAW CDRL A006.

C.5.1.8 Record of Conference Minutes: The Contractor shall prepare and provide conference minutes IAW CDRL A007. The Contractor shall develop, generate and provide minutes that document technical information and program information.

C.5.1.8.1 Meeting Minutes: The Contractor shall develop, generate and provide meeting minutes, IAW CDRL A007, that document: technical information; program information; data required to record decisions and agreements reached during COR meetings; any meetings with Government personnel; meetings with subcontractors; and email or telephone discussions during which conclusions or program direction decisions are made, or new information is discovered or clarified.

C.5.1.9 Product Drawings/Models and Associated Lists: The Contractor shall deliver product drawings and associated lists IAW CDRL A008. The Contractor shall deliver these materials within fourteen (14) days of the date of request, or as indicated by applicable Work

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**Name of Offeror or Contractor:**

Directive.

C.5.2 Access to Data: The Contractor agrees to provide access to all records and data. The Government shall have the right to access all records and data, to require delivery of any such records and data, and to retain any delivered records and data.

C.6 MEETINGS

C.6.1 The post-award Start-of-Work meeting shall be convened by the Contractor within seven (7) days after contract award at either the Contractors facility or the Governments facility, at the CORs determination.

C.6.2 The Contractor shall provide administrative support for meetings held at the contractors facility. Location of these meetings shall be held at a mutually-agreed upon site based upon the agenda for said meeting.

C.6.3 The Contractor shall be required to conduct project reviews at the Contractors facility, sub-contractors facility or any Government facility. The Contractor shall attend and take part in those meetings, no more than three (3) per year, and prepare minutes IAW CDRL A007. An agenda will be coordinated between TARDEC and the Contractor prior to contractor-hosted reviews.

C.6.4 Meeting minutes are due within four (4) working days following a meeting, as specified in Exhibit A, IAW CDRL A007. The Contractor shall generate minutes that document technical information and data required to record decisions and agreements reached during meetings to include: meetings with Government personnel; meeting with sub-contractors; and E-mail or telephone discussions during which conclusion or program direction decisions are made, or new information is discovered or clarified.

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

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**Name of Offeror or Contractor:**

SECTION I - CONTRACT CLAUSES

<u>Status</u>	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
I-1 DELETED	52.204-2	SECURITY REQUIREMENTS (AUG 1996) -- ALTERNATE I (APR 1984)	APR/1984