

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**1. Contract ID Code  
Firm-Fixed-Price

Page 1 Of 7

2. Amendment/Modification No.

0005

3. Effective Date

2012DEC12

4. Requisition/Purchase Req No.

SEE SCHEDULE

5. Project No. (If applicable)

6. Issued By

U.S. ARMY CONTRACTING COMMAND  
NANCY DULMAGE  
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-11-R-0412

9B. Dated (See Item 11)

2012SEP06

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 Changes Set Forth In Item 14 Are Made In \_\_\_\_\_  
The Contract/Order No. In Item 10A.
- 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

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SECTION A - SUPPLEMENTAL INFORMATION

SOLICITATION NUMBER: W56HZV-11-R-0412

AMENDMENT NUMBER: 0005

The purpose of this amendment is to make the following change to the solicitation:

SECTION C

Revise the language in Section C.4.7 to remove the following:

"If used in the FTFS Kit design, FTFS extinguishing agent holding bags made of cloth or a composite of cloth and other materials shall hold their shape, shall not sag, and shall not allow settling of the FTFS extinguishing agent at the bottom of the bags. Bag stiffeners shall be acceptable for use in meeting this requirement and shall not interfere with the functionality, operation and performance of the FTFS Kit."

\*\*\* END OF NARRATIVE A0006 \*\*\*

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**Name of Offeror or Contractor:**

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

Fuel Tank Fire Suppression (FTFS) Kits for Heavy Tactical Wheeled Vehicles.

C.1 Objective. The objective of this effort is to test and procure external FTFS Kits that will prevent sustained fuel tank fires resulting from ballistic impact for the following models of the Family of Heavy Tactical Vehicle (FHTV) fleet: Heavy Equipment Transporter (HET) A0 & A1, Heavy Expanded Mobility Tactical Truck (HEMTT) A4, Palletized Loading System (PLS) A0 & A1, M915A3, M915A5, M916A3 and the M917A2. Testing (reference E.2) shall include both Contractor testing at certified test labs as well as Government First Article Testing (FAT) at Government test sites. Production shall follow the successful completion of FAT, based on delivery orders.

C.2 FTFS Kit Requirements.

C.2.1 Vehicle Platforms. The Contractor shall develop and produce FTFS Kits for all platforms listed in Table C.2.1 below. As shown in Table C.2.1, some Vehicle Kits contain multiple fuel tank configurations. The Contractor shall produce and deliver the same technical solution for each of the nine fuel tank configurations. The contractor's technical solution, or adaptations of the technical solution, shall meet the dimensions detailed in Section C, Table C.2.1 and the kitting requirements detailed in Section C.2.1.2. Note, contractors may provide identical kit adaptations for the configurations listed below:

Table C.2.1 Vehicle Platform Information

Common Configuration	Fuel Tank Location	*Diameter	*Length	*Width	*Height	*Capacity	Vehicle Model
Configuration 1	Drivers Side	28.75	60	RT/NA	RT/NA	155	HEMTT A4
Configuration 2	Drivers Side	28.75	60	RT/NA	RT/NA	155	M983A4
							HEMTT LET
Configuration 3	Drivers Side	28.75	58.13	RT/NA	RT/NA	150	M1070 A0 HET
Configuration 3	Drivers Side	28.75	58.13	RT/NA	RT/NA	150	M1070 A1 HET
Configuration 4	Drivers Side	ST/NA	40.25	24.56	26.25	100	M1074 A0 PLS
Configuration 4	Drivers Side	ST/NA	40.25	24.56	26.25	100	M1075 A0 PLS
Configuration 4	Drivers Side	ST/NA	40.25	24.56	26.25	100	M1074 A1 PLS
Configuration 4	Drivers Side	ST/NA	40.25	24.56	26.25	100	M1075 A1 PLS
Configuration 5	Drivers Side	25.24	32.5	RT/NA	RT/NA	60	M915A5
None	NFTP	NA	NA	NA	NA	NA	M915A3
None	NFTP	NA	NA	NA	NA	NA	M916A3
None	NFTP	NA	NA	NA	NA	NA	M917A2
None	NFTP	NA	NA	NA	NA	NA	HEMTT A4
None	NFTP	NA	NA	NA	NA	NA	M983A4
							HEMTT LET
<u>PASSENGER SIDE TANK</u>							
Configuration 7	Passenger Side	28.75	39.31	RT/NA	RT/NA	100	M1070 A0 HET
Configuration 7	Passenger Side	28.75	39.31	RT/NA	RT/NA	100	M1070 A1 HET
None	NFTP	NA	NA	NA	NA	NA	M1074 A0 PLS
Configuration 8	Passenger Side	ST/NA	67	23.35	13.5	86	M1075 A0 PLS
Configuration 10	Passenger Side	NA	48.75	23.35	13.5	60	M1074 A1 PLS
Configuration 8	Passenger Side	ST/NA	67	23.35	13.5	86	M1075 A1 PLS
Configuration 9	Passenger Side	25.24	32.5	RT/NA	RT/NA	60	M915A5
Configuration 6	Passenger Side	27.50	45	RT/NA	RT/NA	100	M915A3
Configuration 6	Passenger Side	27.50	45	RT/NA	RT/NA	100	M916A3
Configuration 6	Passenger Side	27.50	45	RT/NA	RT/NA	100	M917A2

Codes:

NFTP = No Fuel Tank Present on Passenger Side

NA = Not Applicable

ST/NA = Square Tank/Not Applicable

RT/NA = Round Tank/Not Applicable

\* Diameter, Length, Width, & Height are in inches. Capacity is in gallons.

C.2.1.2 The FTFS Kits shall provide coverage for the vehicles external fuel tanks. The HET, M915A5 and PLS vehicles shall have both drivers side and passengers side external fuel tank protection. All HEMTTs, M915A3, M916A3 and M917A2 shall have only drivers side

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external fuel tank protection, due to the lack of a passenger side fuel tank. The contractor shall provide an identical technical solution for each of the vehicle platforms identified in C.2.1. Each FTFS vehicle Kit shall include all materials necessary to support field installation to include mounting hardware, shipping and packaging material, and installation instructions (CDRL A003 FTFS Kit Instruction Manual). In the case where one kit is applicable to more than one vehicle, the kit shall contain parts and instructions for all applicable vehicles (see C.10.2).

C.2.2 Technical Requirements to be submitted with FAT kits (Production/Configuration Baseline). The Contractor shall provide a technical description for each configuration of FTFS Kit for this procurement. The technical description shall define the products submitted for FAT and shall be a complete drawing package that depicts the product as delivered for FAT (proprietary is acceptable). This will become the Production Baseline technical description. The technical description shall include a design description, system description, specification sheets of all components, Material Safety Data Sheets for fire extinguishing material, the Top Level (Kit) drawing, the physical containment system for any fire extinguishing chemicals, and kit weight. The Top Level (Kit) drawing shall be suitable for updating the Army provisioning/catalog data system. (CDRL A001 Production/Configuration Baseline, IAW DI-SESS-81003D)

C.2.3 Physical Characteristics

C.2.3.1 Paint. The FTFS Kits shall have exterior coloration that matches Tan 686 chip #33446 in accordance with FED-STD-595.

C.2.3.1.1 Paint Application. If the kit requires paint to achieve the color in C.2.3.1, Chemical Agent Resistant Coating (CARC) paint shall be applied IAW MIL-DTL-53072.

C.2.3.2 Dissimilar metals shall not be used in contact with each other unless protected against galvanic corrosion IAW MIL-STD-889.

C.2.3.3 Individual kit components shall not exceed a weight of 74 pounds each, based on the maximum design weight limit for two people lifting an object to a surface greater than five feet above the floor IAW MIL-STD-1472. FTFS Kits shall add no more than 250 pounds per fuel tank when installed.

C.2.3.4 The FTFS Kit shall provide fuel tank coverage on all sides necessary to meet the performance requirements as specified in this SOW.

C.2.3.5 The extinguishing agent shall not include any chemicals prohibited by the Toxic Substances Control Act (TSCA) of 1976.

C.3 FTFS Ballistic Performance Requirements. The contractor shall provide FTFS Kits that meet the requirements of the FTFS Ballistic Performance Specifications, dated 06 May 2008 (classified). To view the FTFS Performance Specifications the Contractor must provide evidence of its security clearance by providing a copy of its Facility Clearance Letter (FCL) signed by a Defense Security Services representative to the Government Contract Specialist listed on the cover page of the solicitation (standard form 33). Security Classification Specification of this requirement is defined in Attachment 0002, Department of Defense Contract Security Classification Specification (DD254) form (see paragraph H.2 Facility and Information Security Clearances, H.3 Security Requirement, and H.4 Safeguarding Classified Information within Industry).

C.4 Environmental Performance

C.4.1 FTFS Kits shall be Petroleum, Oil, and Lubricants (POL) resistant IAW MIL-STD-810, method 504.1 (Contamination of Fluids), Procedure II Intermittent Exposure.

C.4.2 FTFS Kits shall have ultraviolet and sunlight (UV) resistance IAW MIL-STD-810, method 505.5 (Solar Radiation), Procedure II with a test duration of fifty-six (56) twenty-four (24) hour cycles.

C.4.3 FTFS Kits shall have water/rain resistance IAW MIL-STD-810, method 506.5 (Rain), Procedure I.

C.4.4 FTFS Kits shall have humidity resistance IAW MIL-STD-810, method 507.5 (Humidity), Procedure II with a test duration of ten (10) twenty-four (24) hour cycles.

C.4.5 FTFS Kits functionality shall not be degraded when exposed to temperatures from -50 degrees Fahrenheit to 165 degrees Fahrenheit.

C.4.6 FTFS Kits functionality shall not be degraded by the effects of road debris (e.g. rock strike).

C.4.7 Physical Containment. Materials used in the construction of FTFS Kits shall remain stable during use and storage and shall not degrade in durability and performance throughout the range of temperatures identified in C.4.5.

C.5 Operational requirements. FTFS Kits shall be fully operable without vehicle power.

C.6 Interfaces and Commonality. The FTFS Kit shall fit on each tank taking into account any component interference issues, consisting of brackets, fuel lines, wheel fenders, storage boxes, exhaust tubing, and vehicle collision warning sensors. The FTFS Kit shall not

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decrement vehicle system performance. Design of the FTFS Kit shall provide for interchangeability of components.

C.7 Installation requirements. FTFS Kits must be installed on the vehicle without removal of the fuel tank or disconnecting fuel lines and pump wires. The fuel tank brackets can be loosened to adjust or shift the fuel tank in order to install the FTFS Kit. FTFS Kits shall be installable in less than two hours (by two soldiers) per fuel tank with no specialized training and without the use of special tools. Special tools are defined as any tools not included in the General Mechanics Tool Kit (NSN5180-01-548-7634) or the Standard Automotive Tool Set (NSN4910-01-490-6453). FTFS Kits shall provide all hardware for remounting of any removed vehicle equipment.

C.8 Security Requirements

C.8.1 All contractor employees (associated with this contract) must complete Level I OPSEC training per AR 530-1, within 30 calendar days of contract award and new employees within 30 days of their reporting for duty. All contractor employees must complete annual OPSEC awareness training. Level I training is available free of charge at the Interagency OSPEC Support Staff website: [://www.iad.gov/ioss/department/opsec-certification-10065.cfm](http://www.iad.gov/ioss/department/opsec-certification-10065.cfm).

C.8.2 The contractor shall develop an OPSEC Standing Operating Procedure (SOP)/Plan within 90 calendar days of contract award, to be reviewed and approved by the responsible Government OPSEC officer, per AR 530-1, Operations Security. This SOP/Plan will include the Government's critical information, why it needs to be protected, where it is located, who is responsible for it, and how to protect it. In addition, the contractor shall identify an individual who will be an OPSEC Coordinator. The contractor will ensure this individual becomes OPSEC Level II certified per AR 530-1.

C.8.3 Contractor shall comply with FAR 52.204-2, Security Requirements. This clause involves access to information classified (Con)fidential, (Sec)ret, or Top (Sec)ret and requires contractors to comply with (1) The Security Agreement (DD Form 441), including the National Industrial Security Program Operating Manual (DoD 5220.22-M); any revisions to DOD 5220.22-M, notice of which has been furnished to the contractor.

C.8.4 All contractor employees, to include subcontractor employees, requiring access to Army installations, facilities and controlled access areas shall complete AT Level I awareness training within 30 calendar days after contract start date or effective date of incorporation of this requirement into the contract, whichever is applicable. The contractor shall submit certificates of completion for each affected contractor employee and subcontractor employee, to the COR or to the contracting officer, if a COR is not assigned, within 10 calendar days after completion of training by all employees and subcontractor personnel. AT level I awareness training is available at the following website: [://atlevel1.dtic.mil/at](http://atlevel1.dtic.mil/at).

C.8.5 Contractor and all associated subcontractors employees shall comply with applicable installation, facility and area commander installation and/or facility access and local security policies and procedures (provided by government representative). The contractor shall also provide all information required for background checks to meet installation access requirements to be accomplished by installation Provost Marshal Office, Director of Emergency Services or Security Office. Contractor workforce must comply with all personal identity verification requirements as directed by DOD, HQDA and/or local policy. In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in contractor security matters or processes.

C.8.6 The contractor and all associated subcontractors shall brief all employees on the local iWATCH program (training standards provided by the requiring activity ATO). This local developed training will be used to inform employees of the types of behavior to watch for and instruct employees to report suspicious activity to the COR. This training shall be completed within 30 calendar days of contract award and within 30 calendar days of new employees commencing performance with the results reported to the COR NLT 7 calendar days after contract award.

C.9 Safety Assessment/Requirements. The Contractor shall provide both a Safety Assessment Report (SAR) (CDRL A002 Safety Assessment Report (SAR), IAW DI-SAFT-80102A) and Health and Hazard Assessment Report (HHAR) (CDRL A005 Hazard Assessment), IAW DI-SAFT-80102B) no later than 90 days after contract award, which shall identify all inherent system hazards that may be expected under all operating and maintenance conditions. The Contractors submission of the SAR and Hazard Assessment shall identify all required Personnel Protection Equipment (PPE) needed during a blast event or clean up from the event. In preparing the Safety Assessment Report, the Contractor shall provide a description and discussion of each potential or actual health hazard issue of concern for each subsystem or component including a Material Safety Data Sheet (MSDS). The manufacturers declared chemical analysis must be submitted to the contracting agency and to the ballistic test agency in accordance with CDRL A002 Safety Assessment Report (SAR).

C.10 Logistics Support. The Contractor shall provide logistics support for the FTFS Kit and plan for Integrated Logistics Support (ILS) reviews as follows:

C.10.1 The Contractor shall provide an Installation Instruction Manual IAW DI-TMSS-80527B (CDRL A003 FTFS Kit Instruction Manual). The manual shall contain all technical information on the assembly, installation, operation, parts, installation tools required, expendable and durable items, and maintenance of the FTFS Kits. Installation instructions shall include FTFS Kit unpacking instructions, an inventory sheet of kit contents, and pictures identifying each kit component for each configuration. The Contractor shall include all findings from Government testing recorded on Test Incident Reports (TIRs) and Failure Analysis Corrective Action Reports (FACARs) that affect the installation instruction manual. The Contractor shall use Appendix A of MIL-PRF-32216 in determining content requirements.

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No specialized training shall be required for soldiers to comprehend kit installation.

C.10.2 FTFS Kits shall have one set of instructions in each kit package. Instructions shall be accessible without unpacking FTFS kit contents from packaging (on top inside). Instructions shall be printed in English. An electronic version (PDF or Microsoft Word format) shall be provided to COR (CDRL A003 FTFS Kit Instruction Manual, IAW DI-TMSS-80527B).

C.10.3 FTFS Kit Installation Manual Verification. The Contractor shall conduct Install Manual verification by providing a draft Installation Manual as well as demonstrating the install to the Government no later than 120 days after contract award. (CDRL A003 FTFS Kit Instruction Manual)

C.10.3.1 Reserved

C.10.3.2 The Contractor shall schedule the verification. The Contractor shall record, and maintain all changes and updates made during the verification.

C.10.3.3 All verification findings from C.10.3.2 shall be incorporated by the Contractor into the Final Installation Manual and delivered to the Government for review within 14 calendar days, or less, after the verification. (CDRL A003 FTFS Kit Instruction Manual)

C.10.3.4 Within 14 calendar days after delivery of the Final Installation Manual (see C.10.3.3), the Government will review and provide the Contractor any changes that need to be incorporated.

C.10.3.5 All verification findings and follow-up comments from the Governments review of the Draft Installation Manual shall be incorporated by the Contractor into final copies and made available for final approval by the Government, within 14 calendar days of receipt of Government comments. (CDRL A003 FTFS Kit Instruction Manual)

C.10.4 One logistics review shall be scheduled by the Contractor in conjunction with the Start of Work meeting. Up to two additional logistics reviews shall be scheduled by the Contractor during development of the draft Installation manual.

C.11 Configuration Management. The Contractor shall be responsible for managing the Government approved FAT configurations of the FTFS Kits. The Contractor shall establish a production configuration baseline and the Government may validate the baseline by performing a Physical Configuration Audit (PCA). The production configuration baseline identifies and documents the functional and physical characteristics of the Kits. The Government reserves the right to conduct a PCA at any time.

C.11.1 Engineering Change Proposals (ECPs). The Contractor shall submit an Engineering Change Proposal (ECP) in accordance with CDRL A006 (DI-CMAN-80639C) for Government approval before making any changes to the Production Baseline configuration of a FTFS Kit. The Contractor shall submit supporting rationale and a complete detailed cost analysis for each change. The submittal shall be accompanied by drawings, sketches, and other technical data necessary for the Government to perform a complete evaluation and provide the Contractor with a final decision.

C.11.2 Request for Deviations (RFDs). The Contractor may seek temporary relief from a particular contract requirement before, during, or after manufacture without affecting a change to the applicable technical data. The Contractor shall submit these variances or requests for relief electronically in the form of a Request for Deviation (RFD) in accordance with CDRL A007 Request for Deviation, (DI-CMAN-80640C). Nonconforming production FTFS Kits resulting from manufacturing error shall not be delivered to the Government unless an RFD has been processed and approved by the Government in accordance with the requirements of this contract. Requests for Deviation approval are not automatic or guaranteed. RFDs requested that affect ballistic integrity will not be considered. Variances to deviate from requirements are for the benefit of the Contractor and consideration offered for acceptance of the proposed RFD shall be attached as part of the RFD.

C.11.2.1 Effectivity Certification. Changes resulting from RFDs shall be incorporated into production through contract modification. Actual cut-in of these changes shall be at a single end item cut-in point. Each RFD shall be applied to the production line at one time in its entirety.

C.11.2.2 Supporting Data. Sufficient supporting data to evaluate the proposed request to deviate or waive requirements, legible and in electronic format, such as drawings, supplemental drawings, sketches, specifications, e-mail messages, manufacturers data sheets, shall be included with all RFDs.

C.12 Start of Work Meeting. The contractor shall host a start of work meeting at its facility within 15 days after contract award in accordance with FAR clause 52.204-4003 Start of Work Meeting. The Contractor shall at a minimum invite the PCO and Contract Specialist identified on the face page of this contract, and the Administrative Contracting Officer (ACO). The PCO, Contract Specialist and ACO shall be given at least ten days advance notice of the time, date, and location of the start of work meeting. The preferred method of notification is by email.

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