

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT1. Contract ID Code
Cost Plus Fixed Fee

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2. Amendment/Modification No.

P00004

3. Effective Date

2014SEP04

4. Requisition/Purchase Req No.

SEE SCHEDULE

5. Project No. (If applicable)

6. Issued By

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

Code

W56HZV

7. Administered By (If other than Item 6)

DCMA PHILADELPHIA
700 ROBBINS AVENUE, BLDG 4-A
P.O. BOX 11427
PHILADELPHIA PA 19111-0427

Code

S3915A

EMAIL: MONTGOMERY.L.MCCLELLAND.CIV@MAIL.MIL

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

NEYA SYSTEMS, LLC
802 WELLINGTON DR
SEVEN FIELDS, PA 16046-8026

9A. Amendment Of Solicitation No.

9B. Dated (See Item 11)

10A. Modification Of Contract/Order No.

W56HZV-11-C-0208

10B. Dated (See Item 13)

2011MAR17

Code 5PSH4

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)

NO CHANGE TO OBLIGATION DATA

**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: _____
Mutual Agreement Between Parties
- 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)

JOHN M. HOPFNER
JOHN.HOPFNER@US.ARMY.MIL (586)282-7359

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)

2014SEP04

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

Buyer Name: MONTY MCCLELLAND
 Buyer Office Symbol/Telephone Number: CCTA-ASG-B/(586)282-9750
 Type of Contract: Cost Plus Fixed Fee
 Kind of Contract: Research and Development Contracts
 Type of Business: Other Small Business Performing in U.S.
 Surveillance Criticality Designator: C
 Weapon System: No Identified Army Weapons Systems

*** End of Narrative A0000 ***

PURPOSE OF MODIFICATION: REVISE SCOPE & CDRLS AND EXTEND POP

PREVIOUS CONTRACT AMOUNT: \$1,386,519.90
 AMOUNT OF THIS ACTION: \$ 0.00
 TOTAL CONTRACT AMOUNT: \$1,386,519.90

1. The purposes of this bilateral modification P00004 are to update and revise the Scope of Work, update and revise the Contract Data Requirements List (CDRLs), and extend the period of performance by 1 month all at no additional cost to the Government.
2. The following sections of the contract are changed as a result of this modification:
 - A. Section B CLIN 0005 updated to extend the performance completion date by 1 month from 16-NOV-2014 to 16-DEC-2014.
 - B. Section C Scope of Work revised to replace the contractor's final demonstration efforts with the contractor's participation in a Manned Unmanned Teaming (MUM-T) demonstration taking place in November 2014 at the Government's request.
 - C. Section F.1 period of performance extended by 1 month from 'forty-four (44) months' to 'forty-five (45) months' after contract award date.
 - D. Section J Exhibit A Contract Data Requirements List updated to include references to new and revised sections of SOW.
3. As a result of this modification P00004, the total contract value remains unchanged.
4. Except as provided herein, all other terms and conditions of contract W56HZV-11-C-0208 remain unchanged.

*** END OF NARRATIVE A0006 ***

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SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 Introduction

C.1.1 The Contractor, acting as an independent contractor and not as an agent of the Government, shall provide the necessary personnel, facilities, materials and services to complete the efforts described in this SBIR Phase II Statement of Work.

C.1.2 In Phase I (W56HZV-10-C-0213), the contractor developed a comprehensive design for a Mission Planning and Management System (MPMS) for Unmanned Ground Vehicles (UGVs) with language translation and graphical user interface. In Phase II, the Contractor will further research, develop and deliver a prototype Mission Planning and Management System (MPMS) for UGVs, as well as an Unmanned Air System that will translate between various representations of the Domain Model, including a Graphical User Interface (GUI) representation, human-readable representation, and machine executable representation that allows a mission planner to express his intent in language he is familiar with. The MPMS will include mission simulation and validation capabilities.

C.2 Tasks

C.2.1 The Contractor shall research, develop, and deliver a Mission Planning and Management System (MPMS) prototype for Unmanned Systems, with language translation and graphical user interface IAW para C.3.6, which shall have the following characteristics and performance capabilities:

C.2.1.1 Mission Language Translation Capability

The MPMS shall include a Domain Specific Language, based on the Tactical Scripting Language (TSL), which was defined in Phase I Final Report. It shall include tools to translate from the TSL to an internal format that is able to be stored within a mission repository, and to an external format for deployment to a robotic asset. The TSL being an internal component shall be documented by a defined grammar using a standard grammar definition technique and the Unified Modeling Language (UML) diagrams.

C.2.1.2 Graphical User Interface (GUI) Development

The MPMS shall include GUIs based on the Phase I Final Report design. Specifically, the MPMS shall include GUI interfaces to a Commercial Off-the-Shelf (COTS) mapping system, a Task Scripting GUI, a Parameter Editing Tool, and a Mission Scheduling Interface.

C.2.1.3 Parameter Distribution and Synchronization

The MPMS shall be capable of changing all dynamic mission parameters at runtime. In this case, there may be an impact on other vehicles and assets that depend on Mission Start Time, and therefore, dissemination of this information, and analysis of impact, is necessary. The ability of the MPMS shall accomplish the dynamic mission parameter activities characterized using diagrams defined by the Object Management Group (OMG) Unified Modeling Language (UML) 2.0.

C.2.1.4 Mission Package Validation and Deployment

The MPMS shall be capable of basic validation of the mission prior to deployment of the mission plan. Basic validation is ensuring that missions can be completed within the specified time frame, that assets have the required capabilities, and that missions will not conflict with each other.

C.2.1.5 Society of Automotive Engineers Joint Architecture for Unmanned Systems (SAE JAUS)

The MPMS shall include translation from TSL to the SAE Joint Architecture for Unmanned Systems (JAUS) standard. The contractor shall recommend in the Final Report IAW CDRL A002, extensions to the current set of defined JAUS services to support complex (looping, branching and logical conditional statements as opposed to current simple invariant sequences) UGV mission specification and execution. UGV mission specification shall be recommended by the contractor and approved by the COR. The recommendations shall be developed and delivered as SAE JAUS Request for Enhancement (RFE) documents. The SAE JAUS RFEs shall be discussed with the COR and other government technical experts and be documented in the final technical report IAW CDRL A002.

C.2.1.6 Protocol Development

The MPMS shall include software to translate from TSL to protocols that are required for the Manned Un-Manned Teaming(Ground) (MUM-T(G)) Task 8 experiment to the level necessary to support integration of Full Motion Video (FMV), vehicle status monitoring and position monitoring for the Raven (Small Unmanned Aerial System (SUAS)) and Dismounted Soldier Autonomy Tools (DSAT) (UGV) platforms.. The delivery of the software to translate from TSL to the protocols that are requested for MUM-T(G) shall be included as part of the MPMS source code delivery IAW CDRL A006. Discussion of this translation software shall be included in the bi-monthly progress report IAW CDRL A001, the Research & Development Project Summary IAW CDRL A003, and the Draft & Final Technical Report IAW CDRL A002.

C.2.1.7 Mission Simulation

The MPMS shall include a simulation capability, using a COTS simulation package, which shall be selected by the Contractor from one of Player/Stage, Gazebo, or OpenRAVE.

C.2.1.8 Advanced Capability Development

The contractor shall identify variation points in the Domain Model that will broaden the scope of the MPMS. Identified variation points shall include the potential for interfacing with maritime vehicles (trim tab settings, inability to apply brakes) since they have characteristics and related JAUS services that do not apply to land vehicles, other mapping systems and emerging or evolving standards,

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as well proprietary systems. Variation points to simulation capabilities shall also be identified and provided to the COR within the Bi-monthly Progress Report and Draft and Final Reports IAW CDRL A001 and A002 respectively. Variation points shall be documented using feature models and Universal Modeling Language UML documents. Documentation and discussion of reasoning for identified variation points shall be included in Bi-monthly Progress Report IAW CDRL A001 and the Draft and Final Report IAW CDRL A002.

C.2.1.9 Field Mission Management System

The MPMS shall include a field management system, to allow the field operator or commander to execute simple mission tasks such as starting Tasks, pausing Tasks, and requesting Task status during mission execution. The field mission management system software shall run on Soldier operated controllers.

C.2.1.10 Distributed Command and Control

The MPMS system shall include tools to support the software engineering, specifications, and implementation necessary to command handoff and transition of command and control, and data viewing of payload data (imagery) and platform data (platform status and location) across multiple Field Mission Management Systems. At the payload level, the Contractor shall concentrate on displaying video from a single payload on multiple Field Mission Management System running on Soldier operated controllers.

C.2.2 Unmanned Aerial Systems Control Segment (UCS) Working Group Participation

The Contractor shall be a member of the UCS working group, and develop a strategy for integrating MPMS technology within UCS, which shall be documented in the final technical report IAW CDRL A002. This includes participating (at a minimum, as a liaison member) in working group (WG) meetings (either in person or electronically) and developing work products (UCS Architecture Version 2.1 Domain Model and Data Model description of MPMS technology).

C.2.3 MPMS Service Integration

The Contractor shall recommend three UCS services for integration into MPMS to the COR in the second bi-monthly Interim report; this information shall be due within 120 days after contract award. The COR, shall approve/disapprove these recommendations within 30 days of receipt. If the COR disapproves, the COR shall contact the Contractor and negotiate a mutually agreeable recommendation. Integrating UCS services shall involve specifying client-side interfaces within MPMS, extending TSL to support UCS-protocol interfaces, to show how a high-level task scripting language can be used to access UCS-defined ground control station services.

C.2.4 Software Development Kit

The Contractor shall develop a Software Development Kit (SDK) for MPMS. The purpose of the SDK is to simplify integration of MPMS with existing and legacy platforms and controllers. This SDK shall include the following: 1) Self-contained installer packages for Windows and Linux; 2) A Mission Management Service (MMS) Library Developer Tool to auto-generate MMS interface code supporting custom (3rd party) Robotic Operating System (ROS) services; 3) A Sample Mission Tutorial; and 4) User documentation for task editing, mission generation, and mission execution using MPMS tools.

C.2.5 Testing and Demonstration

The Contractor shall demonstrate the integration of a Mission Management System (MMS).

C.2.5.1 AscTec Pelican Integration

The Contractor shall integrate MMS services on the AscTec Pelican. This integration includes development of MMS-compliant services, with ROS interfaces, for waypoint following, loitering, and simulated object/intruder recognition. This integration effort will allow the AscTec Pelican Unmanned Aerial Vehicle (UAV) to work with the MPMS.

C.2.5.2 Prototype Integration and Demonstration

The Contractor shall demonstrate via video the integration of a Mission Management System (MMS) service on a LAGR platform, provided by the Contractor (which will not be delivered to the Government), and an AscTec Pelican UAV(purchased under this effort) at least 60 days before the end of the period of performance IAW para C.3.3. Additionally, the Contractor shall demonstrate via video the implementation of MMS capabilities on both robots, and shall perform testing of MMS capabilities using a test course as determined and agreed upon by both COR and Contractor, for both hardware and software. This demonstration and test will occur at the Neya Systems Pittsburgh facility. A video of the demonstration and a final report (which includes a section that details how the test was performed along with the outcomes of the test) shall be delivered to the COR at least 30 days before the end of the period of performance. The video shall be in the .wmv format and shall be delivered IAW CDRL A007. The final report shall be delivered IAW CDRL A002.

C.2.6 Draft and Final Technical Report

The Contractor shall prepare and submit a draft and final technical report addressing all the technical information concerning the MPMS, described in Section C.2 IAW CDRL A002. The report shall include the results of all tests performed on the system, technical specifications, source code and diagrams of all components of the system, and instructions detailing the operation of all delivered software and hardware.

C.2.7 Prototype System

The Contractor shall create and deliver, IAW paragraphs C.2.1 and C.4.3, a prototype system to the COR within 15 days after the period of performance. The delivered system shall be capable of all functions described in Section C.2. The contractor shall be responsible for shipping the Prototype System to the Government COR.

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C.2.8 Draft and Final Research and Development (R&D) Project Summary Report

The Contractor shall deliver, IAW CDRL A003, one draft "SBIR Phase II R&D Project Summary" one month prior to the end of the period of performance. The COR will review the draft project summary and return it to the Contractor within 15 days of receipt with comments. The Contractor shall submit, IAW CDRL A003, one final "SBIR Phase II R&D Project Summary" within 15 days after receipt of draft comments.

C.2.9 Bi-monthly (every other month) Progress Report

The first Bi-monthly Progress Report is due 60 days after contract award and shall be submitted to the COR every other month thereafter IAW CDRL A001. The reports shall include a list of tests performed, changes to the technical specifications, source code and diagrams of all components in the system.

C.3 Meetings

C.3.1 Start of Work Meeting/Kick-off Meeting

The Contractor shall plan and conduct a one-day kickoff meeting at TARDEC within 30 days after contract award. The Contractor shall contact the COR a minimum of two weeks in advance to coordinate the meeting. The Contractor shall provide a Meeting Agenda to the COR within 10 days of the Kick-off Meeting IAW CDRL A004. Within the Agenda, the contractor shall explain their intended approach for accomplishing the contract SOW. Meeting Minutes shall be provided to the COR within 10 days after the meeting IAW CDRL A005.

C.3.2 Interim Progress Review

The Contractor shall plan and conduct one interim progress review (IPR) meeting, which shall be held at TARDEC 12 months after contract award. The Contractor shall contact the COR a minimum of two weeks in advance to coordinate the meeting. The Contractor shall provide a Meeting Agenda to the COR within 10 days of the Interim Progress Review IAW CDRL A004. Within the Agenda, the Contractor shall describe their progress to date and their plans for completing the contract SOW. Meeting Minutes shall be provided to the COR within 10 days after the meeting IAW CDRL A005.

C.3.3 Final Meeting and Demonstration

The Contractor shall participate in the Manned Unmanned Teaming (Ground) (MUM-T(G)) Limited Operational Evaluation (LOE) at Ft. Benning, currently scheduled to occur between November 10, 2014 to November 21, 2014. The contractor shall participate in this event with one (1) senior software engineer and one (1) software engineer for two weeks. A trip report shall be delivered to the COR within 10 days after the LOE IAW CDRL A005.

C.4 Deliverables

C.4.1 Deliverable of Bi-monthly (every other month) Progress Reports

Bi-monthly Progress Reports shall be delivered IAW CDRL A001 and paragraphs C.2.1.8 and C.2.8.

C.4.2 Deliverable of Draft and Final Technical Report

Draft and Final Technical Report shall be delivered IAW CDRL A002 and paragraphs C.2.1.5, C.2.1.8, C.2.2, and C.2.5.

C.4.3 Deliverable of Prototype

Prototype System shall be delivered to the COR IAW paragraphs C.2 and C.2.6.

C.4.4 Deliverable of R&D Project Summary Report

R&D Project Summary Report shall be delivered IAW CDRL A003 and paragraph C.2.7. The Contractor shall reference the tailored DID DI-MISC-81612A.

C.4.5 Deliverable of Meeting Agenda

Meeting Agenda shall be delivered IAW CDRL A004 and paragraphs C.3.1, C.3.2, and C.3.3.

C.4.6 Deliverable of Meeting Minutes

Meeting Minutes shall be delivered IAW CDRL A005 and paragraphs C.3.1, C.3.2, and C.3.3. C.5. Phase II Enhancement Background.

C.5.1 In Phase I (W56HZV-10-C-0213), the Contractor developed a comprehensive design for a Mission Planning and Management System (MPMS) for UGVs with language translation and graphical user interface. The design began with use cases, based on identified mission scenarios from which requirements were derived. The requirements lead to a Domain Model that captured entities, attributes, and relationships that exist within the MPMS. The Contractor then developed a Domain Specific Language, called the Tactical Scripting Language, which allows human readable (but machine parseable) representations of UGV missions. Additionally, the Contractor identified extensions required to UGV standards such as the Joint Architecture for Unmanned Systems (JAUS) to allow these standard interfaces to be used for more advanced mission planning tasks.

C.5.2 In Phase II, the Contractor continues to research, develop and deliver a prototype Mission Planning and Management System (MPMS) for UGVs, as well as for other Unmanned Systems that will translate between various representations of the Domain Model, including a GUI representation, human-readable representation, and machine executable representation, which allows a mission planner to express his intent in language he is familiar with. As part of the Phase II effort, the Contractor developed a Mission Management Service (MMS)

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which explicitly coordinates robotic services to implement a mission plan. The MPMS will include mission simulation and validation capabilities.

C.5.3 Now, under this Phase II Enhancement, the Contractor shall perform the work effort outlined beginning in paragraph C.6 immediately below.

C.6 Research & Development Requirements

The Phase II enhancement will address a gap in the development of MPMS with regard to integration with existing fielded control systems and platforms. The contractor shall:

C.6.1 Develop TARDEC/DCS (Defense Contracting Services) WMI (Warfighter Machine Interface)-based mission planner UI (user interface) Software, as follows:

C.6.1.1 The Contractor shall develop software that enables the MPMS Task Editor to integrate with the DCS SSMI (Simplified Soldier Machine Interface) Framework. Discussion of the software for the MPMS Task Editor shall be included in the bi-monthly progress report IAW CDRL A001, the Research & Development Project Summary IAW CDRL A003, and the Draft & Final Technical Report IAW CDRL A002. The delivery of the MPMS Task Editor Software shall be included as part of the MPMS source code delivery IAW CDRL A006.

C.6.1.2 The Contractor shall develop the MPMS Task Scheduler and port it to a custom widget compatible with the DCS SSMI Framework. Discussion of the MPMS Task Scheduler shall be included in the bi-monthly progress report IAW CDRL A001, the Research & Development Project Summary IAW CDRL A003, and the Draft & Final Technical Report IAW CDRL A002. The delivery of the MPMS Task Scheduler software shall be included as part of the MPMS source code delivery IAW CDRL A006.

C.6.1.3 The Contractor shall develop the MPMS Mission Parameter Editor and port it to a custom widget compatible with the DCS SSMI Framework. Discussion of the MPMS Mission Parameter Editor shall be included in the bi-monthly progress report IAW CDRL A001, the Research & Development Project Summary IAW CDRL A003, and the Draft & Final Technical Report IAW CDRL A002. The delivery of the MPMS Mission Parameter Editor Software shall be included as part of the MPMS source code delivery IAW CDRL A006.

C.6.1.4 The Contractor shall integrate existing WMI geographic feature editing capabilities into a Mission Planning Geofeature Editor, adding capabilities to provide for mission parameter editing and visualization. Discussion of integration of the WMI geographic feature editor into the Mission Planning Geofeature Editor shall be included in the bi-monthly progress report IAW CDRL A001, the Research & Development Project Summary IAW CDRL A003 and the Draft & Final Technical Report IAW CDRL A002. The delivery of the Mission Planning Geofeature Editor software shall be included as part of the MPMS source code delivery IAW CDRL A006.

C.6.1.5 The Contractor shall develop a WMI-based mission planner UI using DCSs SSMI Framework which integrates the Task Editor, Task Scheduler, Mission Parameter Editor, Geographic feature Editor and associated controls for I/O (Input/Output) relating to Mission Plans and Mission Tasks. Discussion of the WMI-based mission planner UI shall be included in the bi-monthly progress report IAW CDRL A001, the Research & Development Project Summary IAW CDRL A003, and the Draft & Final Technical Report IAW CDRL A002. The delivery of the WMI-based mission planner UI software shall be included as part of the MPMS source code delivery IAW CDRL A006.

C.6.1.6 The Contractor shall develop DCS-Switch data types and interfaces for data sharing internal to the UI among each of the UI controls. Discussion of the DCS-Switch data types shall be included in the bi-monthly progress report IAW CDRL A001, the Research & Development Project Summary IAW CDRL A003, and the Draft & Final Technical Report IAW CDRL A002. The delivery of the DCS-Switch data types and interfaces software shall be included as part of the MPMS source code delivery IAW CDRL A006.

C.6.2 Develop DCS-SSMI Interface Modules for Interoperability with existing systems

C.6.2.1 The Contractor shall develop an MMS WMI interface module which interfaces between DCS-Switch and RS-JPO IOP (Robotic Systems-Joint Project Office Interoperability Profile) messaging protocols. Discussion of the MMS WMI interface module shall be included in the bi-monthly progress report IAW CDRL A001, the Research & Development Project Summary IAW CDRL A003, and the Draft & Final Technical Report IAW CDRL A002.

C.6.2.2 The Contractor shall develop an MMS WMI interface module which interfaces between DCS-Switch and Robotic Operating System (ROS) messaging protocols. Discussion of the interface module between the messaging protocols shall be included in the Research & Development Project Summary IAW CDRL A003, the Draft & Final Technical Report IAW CDRL A002, and the bi-monthly progress report IAW CDRL A001.

C.6.3 Mission Pack Development

C.6.3.1 The Contractor shall develop between two(2) to four(4) mission packs to enable rapid development of MPMS-based missions, focused on MUM-T(G) requirements which are set forth in the MUM-T(G) Limited Objective Experiment(LOE) Plan. The MUM-T LOE Plan shall be delivered to the contractor at the time of contract award. Mission packs include mission task editor templates, groups of relevant services, signals, and mission parameters. These will be demonstrated in simulation. Mission packs will be developed for scenarios that are based on the Operational View 1 (OV-1) as described in the MUM-T(G) LOE set of OV-1s, which are set forth in the MUM-T(G) Limited Objective Experiment Plan. The MUM-T LOE Plan shall be delivered to the contractor at

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the time of contract award. The specific mission packs developed will simulate the following OV-1 tasks:

(a) Fixed Site Protection (OV-1 Task 5), utilizing ground sensors, inspection SUAS, and a response UGV.

(b) Route Reconnaissance and Clearance (OV-1 Task 7), using a surveillance SUAS, an inspection micro Vertical-Takeoff and Landing (VTOL) SUAS and an unmanned Common Robotic System-Individual (CRS-I) Explosive Ordnance Disposal (EOD) platform launched from a Squad Multi-Purpose Equipment Transport (SMET).

(c) Forward Tactical Resupply (OV-1 Task 8), including the DSAT UGV and an SUAS (Raven) for surveillance and overwatch.

Discussion of the mission packs shall be included in the bi-monthly progress report IAW CDRL A001, the Research and Development Project Summary IAW CDRL A003, and the Draft & Final Technical Report IAW CDRL A002. The mission packs shall be included as part of the MPMS source code delivery IAW CDRL A006.

C.6.4 Mission Progress Monitoring

C.6.4.1 The Contractor shall develop service simulation models that enable mission progress monitoring by estimating future state of the platform using current mission state as input to the simulation model. Under this effort, the Contractor, in conjunction with the Government COR, shall select three services (e.g., TraverseTo, DetectIntruder, PayloadController) not later than 60 days after contract award and develop predictive simulations of these services, to be used for mission progress monitoring. Discussion of the identified services shall be included in the bi-monthly progress report IAW CDRL A001, the Draft and Final Report IAW CDRL A002, and the Research and Development Project Summary IAW CDRL A003.

C.6.5 Hardware Integration and Demonstration

C.6.5.1 The Contractor shall integrate the MPMS/WMI combination on relevant OCU (operator control unit) hardware (e.g. the emerging prototype Tactical Robot Controller (TRC), if TRC hardware is provided as GFE). If TRC hardware is not provided as GFE, then the contractor shall assemble an integrated MPMS/WMI on an OCU using hardware available in-house. Discussion of the TRC hardware or integrated MPMS/WMI shall be included in the bi-monthly progress report IAW CDRL A001, the Draft and Final Technical Report IAW CDRL A002, and the Research and Development Project Summary IAW CDRL A003.

C.6.5.2 The Contractor shall develop MMS service interface extensions for integration onto a relevant robot platform (to be selected, in conjunction with the Government COR, from one of the following: NEYA CANINE (Collaborative Autonomous Navigation in a Networked Environment) Platform, QinetiQ TALON\99, RS-JPO (Robotic Systems Joint Project Office) emerging ESR (Engineer Squad Robot) Prototype. Selection will be made by the COR at time of integration based on availability of platforms and associated integration complexity). Documentation and discussion of reasoning for identified platform shall be included in the bi-monthly progress report IAW CDRL A001, the Research & Development Project Summary IAW CDRL A003, and the Draft and Final Report IAW CDRL A002.

C.6.5.3 The Contractor shall demonstrate task-level mission monitoring within the Forward Tactical Resupply task as part of the MUM-T(G) LOE OV-1 Task 8. The MUM-T LOE Plan shall be delivered to the contractor at the time of contract award. The specific mission pack to be demonstrated as a part of the MUM-T(G) LOE will be selected and developed in conjunction with the Government COR. The mission packs shall be included as part of the MPMS source code delivery IAW CDRL A006.

C.7 Meetings

C.7.1 Start of Work Meeting/Kick-off Meeting

The Contractor shall plan and conduct a one-day kickoff meeting at TARDEC within 30 days after award of modification P00003. The Contractor shall contact the COR a minimum of two weeks in advance to coordinate the meeting. The Contractor shall provide a Meeting Agenda to the COR at least 10 days prior to the Kick-off Meeting IAW CDRL A004. Within the Agenda, the contractor shall explain their intended approach for accomplishing the contract SOW added by modification P00003. Meeting Minutes shall be provided to the COR within 10 days after the meeting IAW CDRL A005.

C.7.2 Interim Progress Review

The Contractor shall plan and conduct one interim progress review (IPR) meeting, which shall be held at TARDEC 9 months after award of modification P00003. The Contractor shall contact the COR a minimum of two weeks in advance to coordinate the meeting. The Contractor shall provide a Meeting Agenda to the COR at least 10 days prior to the Interim Progress Review IAW CDRL A004. Within the Agenda, the Contractor shall describe their progress to date and their plans for completing the contract SOW. Meeting Minutes shall be provided to the COR within 10 days after the meeting IAW CDRL A005.

C.7.3 Final Meeting and Demonstration

The Contractor shall plan and conduct the final meeting and a software/hardware demonstration one month before contract completion, at Ft. Benning, in conjunction with the MUM-T(G) LOE. The Contractor shall contact the COR a minimum of two weeks in advance to coordinate the meeting. The meeting shall include a demonstration that the MPMS is capable of all performance specifications described in Section C.6. The Contractor shall provide a Meeting Agenda to the COR within 10 days of the Final Meeting and Demonstration IAW CDRL A004. Meeting Minutes shall be provided to the COR within 10 days after the meeting IAW CDRL A005.

C.8 Meetings

C.8.1 Start of Work Meeting/Kick-off Meeting

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Name of Offeror or Contractor: NEYA SYSTEMS, LLC

The Contractor shall plan and conduct a one-day kickoff meeting via telecom within 30 days after award of modification P00004. The Contractor shall contact the COR a minimum of two weeks in advance to coordinate the meeting. The Contractor shall provide a Meeting Agenda to the COR at least 10 days prior to the Kick-off Meeting IAW CDRL A004. Within the Agenda, the contractor shall explain their intended approach for accomplishing the contract SOW added by modification P00004. Meeting Minutes shall be provided to the COR within 10 days after the meeting IAW CDRL A005.

C.8.2 Final Meeting and Demonstration

The Contractor shall plan and conduct the final meeting and a software/hardware demonstration as described in paragraph C.7.3.

C.9 Deliverables

C.9.1 Except as identified below, other requirements and deliverables for this Phase II enhancement modification shall be the same as those applicable to the basic Phase II contract, to include (i) bimonthly program status reports, in accordance with paragraph C.2.1.6, C.6.1.1, C.6.1.2, C.6.1.3, C.6.1.4, C.6.1.5, C.6.1.6, C.6.2.1, C.6.2.2, C.6.3.1, C.6.4.1, C.6.5.1, C.6.5.2, and C.8.1 above, and CDRL A001; (ii) meeting agenda prior to meetings, in accordance with paragraph C.7.1, C.7.2, C.7.3 and C.8.1 above, and CDRL A004; (iii) meeting minutes after meetings, in accordance with paragraph C.3.3, C.7.1, C.7.2, C.7.3 and C.8.1 above, and CDRL A005; (iv) a draft and final technical report for the Phase II enhancement effort in accordance with paragraph C.2.1.6, C.6.2.2, C.2.5.2, C.6.1.1, C.6.1.2, C.6.1.3, C.6.1.4, C.6.1.5, C.6.1.6, C.6.3.1, C.6.4.1, C.6.5.1, C.6.5.2, and C.8.1 above, and CDRL A002, and (v) a Research & Development Project Summary for the Phase II enhancement effort, in accordance with paragraph C.6.1.1, C.6.1.2, C.6.1.3, C.6.1.4, C.6.1.5, C.6.1.6, C.6.2.1, C.6.3.1, C.6.2.2, C.6.4.1, C.6.5.1, C.6.5.2 and C.8.1 above, and CDRL A003, (vi) MPMS source code and documentation in accordance with paragraph C.2.1.6, C.6.3.1, C.6.5.3, C.6.1.1, C.6.1.2, C.6.1.3, C.6.1.4, C.6.1.5, C.6.1.6 and C.8.2 above and CDRL A006, (vii) MPMS video in accordance with C.2.5.2 above and CDRL A007.

C.9.2 Deliverables unique to this Phase II enhancement effort include (i) the MPMS software, which shall consist of the MPMS Task Editor as described in C.6.1.1, the MPMS Task Scheduler as described in C.6.1.2, the Mission Parameter Editor as described in C.6.1.3, the Mission Planning Geofeature Editor as described in C.6.1.4, the WMI-based mission planner UI as described in C.6.1.5, and the DCS-Switch data types as described in C.6.1.6. All these components of the MPMS software shall be delivered to the COR on a CD, as per CDRL A006; and (ii) the UAV Pelican which shall be delivered to the COR no later than the end of the contract performance period.

C.9.3 Deliverables unique to the Phase II enhancement modification effort include: (i) the software needed to translate from TSL to the protocols required for the MUM-T Task 8 experiment as described in C.2.1.6, (ii) a video to demonstrate the integration and testing of the MMS service as described in C.2.5.2, and (iii) the mission packs as described in C.6.3.1.

*** END OF NARRATIVE C0001 ***

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SECTION F - DELIVERIES OR PERFORMANCE

F.1 PERIOD OF PERFORMANCE

F.1.1 All effort required under this contract, including delivery of the final technical report, shall be completed by 16 December 2014, forty-five (45) months after contract award date.

F.2 DATA DELIVERABLES

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

F.3 MATERIAL/HARDWARE DELIVERABLES

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

US Army TARDEC
ATTN: Melissa Cinpinski, RDTA-RS, MS 264
6501 E. 11 Mile Rd.
Warren, MI 48397-5000

*** END OF NARRATIVE F0001 ***

CONTINUATION SHEET

Reference No. of Document Being Continued

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MOD/AMD P00004

Name of Offeror or Contractor: NEYA SYSTEMS, LLC

SECTION J - LIST OF ATTACHMENTS

<u>List of</u> <u>Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number</u> <u>of Pages</u>	<u>Transmitted By</u>
Exhibit A	CONTRACT DATA REQUIREMENTS LIST (DD FORM 1423)	16-MAR-2011	004	EMAIL

CONTRACT DATA REQUIREMENT LIST

Form Approval OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

- A. CONTRACT LINE ITEM NO.: 0001
- B. EXHIBIT: A
- C. CATEGORY.....: TDP
- D. SYSTEM/ITEM.....: UGV Language Translation and Graphical User Interface
- E. CONTRACT/PR NO.: SBIR Phase II Enhancement
- F. CONTRACTOR.....: Neya Systems, LLC.

- 1. DATA ITEM NO: A001
- 2. TITLE OF DATA ITEM: Contractor's Progress, Status, and Management Report
- 3. SUBTITLE: Bi-monthly Progress Reports
- 4. AUTHORITY: DI-MGMT-80227 (T)
- 5. CONTRACT REFERENCE: C.2.1.6, C.2.1.8, C.2.9, C.4.1, C.6.1.1, C.6.1.2, C.6.1.3, C.6.1.4, C.6.1.5, C.6.1.6, C.6.2.1, C.6.2.2, C.6.3.1, C.6.4.1, C.6.5.1, C.6.5.2 and C.9.1
- 6. REQUIRING OFFICE: RDTA-RS
- 7. WAFW/DD250 REQ: LT
- 8. APP CODE: N/A
- 9. DIST. STATEMENT REQUIRED.: B
- 10. FREQUENCY: Bi-monthly (every other month)
- 11. AS OF DATE: Date of Award
- 12. DATE OF FIRST SUB.: 60 DAC
- 13. DATE OF SUBS. SUB.: Bi-monthly from block 12

14. DISTRIBUTION	A. ADDRESSEES	B. COPIES:	DRAFT	FINAL
	Melissa Cinpinski, COR, melissa.a.cinpinski.civ@mail.mil			1
	Monty McClelland, Buyer, montygomery.l.mcclelland.civ@mail.mil			1
	Michael Milteer, ACO, michael.milteer@dcma.mil			1
		15. TOTAL:		3

- 16. REMARKS:
 - a. The Contractor shall deliver bi-monthly progress reports. The first report is due by 60 days after the contract award date.
 - b. Complete the reports IAW Data Item Description (DID) DI-MGMT-80227, "Contractor's Progress, Status, and Management Report." The COR is responsible for accepting or rejecting the "Contractor's Progress, Status, and Management Reports."
 - c. Tailoring: Delete paragraphs 10.2, 10.3 k, and l from DID DI-MGMT-80227.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE :

- 1. DATA ITEM NO.: A002
- 2. TITLE OF DATA ITEM.: Scientific and Technical Reports
- 3. SUBTITLE: Draft and Final Technical Reports
- 4. AUTHORITY: DI-MISC-80711A(T)
- 5. CONTRACT REFERENCE: C.2.1.5, C.2.1.6, C.2.1.8, C.2.2, C.2.5.2, C.2.6, C.4.2, C.6.1.1, C.6.1.2, C.6.1.3, C.6.1.4, C.6.1.5, C.6.1.6, C.6.2.1, C.6.2.2, C.6.3.1, C.6.4.1., C.6.5.1, C.6.5.2 and C.9.1
- 6. REQUIRING OFFICE...: RDTA-RS
- 7. WAFW/DD250 REQ.....: DD
- 8. APP CODE.....: N/A
- 9. DIST. STATEMENT REQUIRED.: B

- 10. FREQUENCY.....: See Block 16
- 11. AS OF DATE.....: See Block 16
- 12. DATE OF FIRST SUB.: See Block 16
- 13. DATE OF SUBS. SUB.: See Block 16

14. DISTRIBUTION	A. ADDRESSEES	B. COPIES:	DRAFT	FINAL
	Melissa Cinpinski, COR, melissa.a.cinpinski.civ@mail.mil			1
	Monty McClelland, Buyer, montygomery.l.mcclelland.civ@mail.mil			1
	Michael Milteer, ACO, michael.milteer@dcma.mil			1
		15. TOTAL:		3

16. REMARKS:

a. The Contractor shall deliver one draft "Scientific and Technical Report," one month prior to the end of the period of performance. The draft report shall include a completed Standard Form (SF) 298 (Report Documentation Page) as the report's cover sheet. The COR will review the draft report and return it to the Contractor within 14 days of receipt with comments or concurrence. The Contractor shall incorporate any COR comments and recommended changes, and submit one final "Scientific and Technical Report" (with the completed SF 298) within 14 days after receipt of COR comments.

b. Complete the reports IAW DID DI-MISC 80711A, "Scientific and Technical Reports." The COR is responsible for accepting or rejecting the draft and final reports, and for submitting the approved final report to the Defense Technical Information Center (DTIC), in Ft. Belvoir, VA.

c. Instructions for completing the SF 298 are provided in Attachment 001 to the contract and the form can be found at <http://www.dtic.mil/dtic/submit/howtosubmit/howtosubmit.html>.

Here are some additional instructions for completing the SF 298 form that apply when submitting reports under the SBIR Program:

For each unclassified report, the Contractor shall fill in Block 12a (Distribution/Availability Statement) of the SF 298 with one of the following statements:

- (a) Approved for public release; distribution unlimited.
- (b) Distribution authorized to U.S. Government Agencies only; contains proprietary information

d. Tailoring: Delete paragraph 10.2 from DID DI-MISC-80711A.

Note: After reviewing the Contractor's entry in Block 12a, TARDEC has final responsibility for assigning a distribution statement. The contractor shall mark the actual report itself in accordance with the appropriate legends set forth in DFARS 252.227-7018, "RIGHTS IN NONCOMMERCIAL TECHNICAL DATA AND COMPUTER SOFTWARE -- SMALL BUSINESS INNOVATIVE RESEARCH (SBIR) PROGRAM".

Block 13 (Abstract) of the SF 298 must include the first sentence, "Report developed under SBIR contract for topic (insert topic number)." The abstract must identify the purpose of the work and briefly describe the work carried out, the finding or results, and the potential applications of the effort. Since the Department of Defense (DOD) will be publishing the abstract, it must not contain any proprietary or classified data.

Block 14 (Subject Terms) of the SF 298 must include the term "SBIR Report."

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

- 1. DATA ITEM NO.....: A003
- 2. TITLE OF DATA ITEM.: Research and Development (R&D) Project Summary
- 3. SUBTITLE.....: N/A
- 4. AUTHORITY.....: DI-MISC-81612B
- 5. CONTRACT REFERENCE.: C.2.1.6, C.2.8, C.4.4, C.6.1.1, C.6.1.2, C.6.1.3, C.6.1.4, C.6.1.5, C.6.1.6, C.6.2.1, C.6.2.2, C.6.3.1, C.6.4.1, C.6.5.1, C.6.5.2 and C.9.1
- 6. REQUIRING OFFICE...: RDTA-RS
- 7. DD250 REQ.....: DD
- 8. APP CODE.....: N/A
- 9. DIST. STATEMENT REQUIRED.: A
- 10. FREQUENCY.....: See Block 16
- 11. AS OF DATE.....: See Block 16
- 12. DATE OF FIRST SUB.: See Block 16

13. DATE OF SUBS. SUB.: See Block 16

14. DISTRIBUTION	A. ADDRESSEES	B. COPIES:	DRAFT	FINAL
Melissa Cinpinski, COR,	melissa.a.cinpinski.civ@mail.mil			1
Monty McClelland, Buyer,	montgomery.l.mcclelland.civ@mail.mil			1
Michael Milteer, ACO,	michael.milteer@dcma.mil			1
15. TOTAL:				3

16. REMARKS:

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

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

b. The Contractor shall deliver one draft "SBIR Phase II R&D Project Summary" one month prior to the end of the period of performance. The COR will review the draft project summary and return it to the Contractor within 15 days of receipt with comments or concurrence. The Contractor shall incorporate any COR comments and recommended changes, and shall submit one final "SBIR Phase II R&D Project Summary" within 15 days after receipt of draft comments.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE :

1. DATA ITEM NO.:	A004			
2. TITLE OF DATA ITEM:	Meeting Agenda			
3. SUBTITLE	Conference Agenda			
4. AUTHORITY	DI-ADMN-81249A (T)			
5. CONTRACT REFERENCE:	C.3.2, C.4.5, C.7.1, C.7.2, C.7.3, C.8.1, and C.9.1			
6. REQUIRING OFFICE..:	RDТА-RS			
7. WAWF/DD250 REQ\ '85 . .:	LT			
8. APP CODE	N/A			
9. DIST. STATEMENT REQUIRED:	N/A			
10. FREQUENCY :	See block 16			
11. AS OF DATE:	See block 16			
12. DATE OF FIRST SUB:	See block 16			
13. DATE OF SUBS. SUB:	See block 16			
14. DISTRIBUTION	A. ADDRESSEES	B. COPIES:	DRAFT	FINAL
Melissa Cinpinski, COR,	melissa.a.cinpinski.civ@mail.mil			1
Monty McClelland, Buyer,	montgomery.l.mcclelland.civ@mail.mil			1
15. TOTAL:				2

16. REMARKS:

- a. DI-ADMN-81249A is tailored by deleting 10.2(e), 10.2(g) and 10.2(h)
- b. Meeting Agenda shall provided to the COR within 10 days prior to the meeting.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO.:	A005			
2. TITLE OF DATA ITEM:	Meeting Minutes			
3. SUBTITLE	N/A			
4. AUTHORITY	DI-ADMN-81250A			
5. CONTRACT REFERENCE:	C.3.1, C.3.2, C.3.3, C.4.6, C.7.1, C.7.2, C.7.3, C.8.1, and C.9.1			
6. REQUIRING OFFICE..:	RDТА-RS			
7. WAWF/DD250 REQ\ '85 . .:	LT			
8. APP CODE	N/A			
9. DIST. STATEMENT REQUIRED:	N/A			
10. FREQUENCY :	See block 16			
11. AS OF DATE:	See block 16			
12. DATE OF FIRST SUB:	See block 16			

***** THE FOLLOWING INSTRUCTION APPLIES TO ALL REPORTS DELIVERABLE UNDER THE CONTRACT *****

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

(1) Files readable using these Microsoft* Office XP or Microsoft* Office 2002 & lower Products: Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print or scan images of spreadsheets are not acceptable. Please see security note below for caution regarding use of macros.

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

(3) Files in HTML (Hypertext Markup Language) Format. HTML documents must not contain active links to Internet websites or web pages for reference information. All linked information must be contained within your electronic report, and be accessible offline.

(4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten (10) calendar days before the draft report's due date. All alternate methods must be at no cost to the Government.

(5) Please note that we can no longer accept .zip files due to increasing security concerns.

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

Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, another acceptable media is a 650 megabyte CD ROM. Identify the software application and version used to create each file submitted.

(1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Previously "zipped" files were accepted, but due to security concerns these zipped attachments cannot be received through our mail system. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

(2) 650 MEGABYTE CD ROM to be delivered via U.S. Mail or other carrier. The Contractor shall label all submitted disks with the Contract number, the Contractor's name and address, and a contact's phone number. Exterior mailing envelopes containing disks must be addressed to the following address:

U.S. Army TARDEC
Melissa Cinpinski
RDTA-RS/MS 264
6501 East 11 Mile Road
Warren, MI 48397-5000

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

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