

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. Contract ID Code  
Cost Plus Fixed Fee

Page 1 Of 18

|                                     |                                |   |                                |
|-------------------------------------|--------------------------------|---|--------------------------------|
| 2. Amendment/Modification No.<br>02 | 3. Effective Date<br>2013DEC12 | 4. Requisition/Purchase Req No.<br>SEE SCHEDULE | 5. Project No. (If applicable) |
|-------------------------------------|--------------------------------|---|--------------------------------|

|   |                |  |                |
|---|----------------|--|----------------|
| 6. Issued By<br>U.S. ARMY CONTRACTING COMMAND<br>MICHAEL G. IVKOV<br>WARREN, MICHIGAN 48397-5000<br>HTTP://CONTRACTING.TACOM.ARMY.MIL<br><br>EMAIL: MICHAEL.G.IVKOV@US.ARMY.MIL | Code<br>W56HZV | 7. Administered By (If other than Item 6)<br>DCMA MANASSAS<br>10500 BATTLEVIEW PKWY<br>SUITE 200<br>MANASSAS VA 20109-2342 | Code<br>S2404A |
|---|----------------|--|----------------|

|  |                                     |  |
|--|-------------------------------------|--|
| 8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)<br><br>SCIENCE APPLICATIONS INTERNATIONAL CORPORATION<br>1710 SAIC DR<br>MCLEAN, VA 22102-3701 | <input type="checkbox"/>            | 9A. Amendment Of Solicitation No.                                |
|  | <input type="checkbox"/>            | 9B. Dated (See Item 11)  |
|  | <input checked="" type="checkbox"/> | 10A. Modification Of Contract/Order No.<br>W56HZV-09-D-0153/0004 |
|  | <input type="checkbox"/>            | 10B. Dated (See Item 13)<br>2012SEP25                            |

Code 5UTP8 Facility Code

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers  
 is extended,  is not extended.

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

**12. Accounting And Appropriation Data (If required)**

ACRN: AA NET INCREASE: \$.00

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

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

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

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

SEE SECOND PAGE FOR DESCRIPTION

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

|   |   |  |                               |
|---|---|--|-------------------------------|
| 15A. Name And Title Of Signer (Type or print)                           | 16A. Name And Title Of Contracting Officer (Type or print)<br>JOHN M. HOPFNER<br>JOHN.HOPFNER@US.ARMY.MIL (586)282-7359 |  |                               |
| 15B. Contractor/Offeror<br><br>(Signature of person authorized to sign) | 15C. Date Signed  | 16B. United States Of America<br>By _____ /SIGNED/<br>(Signature of Contracting Officer) | 16C. Date Signed<br>2013DEC12 |

|  |  |                   |                     |
|--|--|-------------------|---------------------|
| <b>CONTINUATION SHEET</b>  | <b>Reference No. of Document Being Continued</b> |                   | <b>Page 2 of 18</b> |
|  | <b>PIIN/SIIN</b> W56HZV-09-D-0153/0004           | <b>MOD/AMD</b> 02 |                     |
| <b>Name of Offeror or Contractor:</b> SCIENCE APPLICATIONS INTERNATIONAL CORPORATION |  |                   |                     |

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: MICHAEL G. IVKOV  
Buyer Office Symbol/Telephone Number: CCTA-ASG-B/(586)282-9754  
Type of Contract: Cost Plus Fixed Fee  
Kind of Contract: Research and Development Contracts  
Type of Business: Large Business Performing in U.S.  
Surveillance Criticality Designator: C  
Weapon System: No Identified Army Weapons Systems

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

MODIFICATION 02

1. The purpose of this bilateral Modification 02 to Task Order 0004 is to extend the Period of Performance from 25 January 2014 to 25 June 2014, realign funds by taking funds off the material CLIN and moving part to labor and part to travel and revise Section C, Scope of Work at no additional cost to the Government.
2. The contract is hereby modified as follows:
  - a. Section B:
    - i. SubCLIN's 0001AA, 0001AB, and 0001AC have been updated to reflect the extended period of performance.
    - ii. CLIN 0001AB (MATERIAL) is decreased in the amount of \$98,822.00 (PRON: R312C207R3) from \$440,867.92 to \$342,045.92.
    - iii. CLIN 0001AF (LABOR) is established and funded in the amount of \$88,624.23 (PRON: R312C207R3) (transferred from CLIN 0001AB) for labor.
    - iv. CLIN 0001AG (TRAVEL) is established and funded in the amount of \$10,197.77 (PRON: R312C207R3) (transferred from CLIN 0001AB) for travel.
  - b. Section C, Scope of Work, has been revised as noted by asterisks.
  - c. Section F.1.1 has been updated to reflect the change in the period of performance.
  - d. Section J, Exhibit A, Contract Data Requirements List, includes an update to CDRL A006 and A007 to reflect the updated delivery dates.
3. Except as specifically provided for in this Modification 02, all other terms and conditions of Contract W56HZV-09-D-0153/0004 remain unchanged and in full force and effect.

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



CONTINUATION SHEET

Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-09-D-0153/0004 MOD/AMD 02

Name of Offeror or Contractor: SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

| ITEM NO | SUPPLIES/SERVICES  | QUANTITY | UNIT | UNIT PRICE | AMOUNT       |
|---------|--|----------|------|------------|--------------|
|         | <p>SERVICE REQUESTED: Ft Carson Fleet Elec<br/>                     CLIN CONTRACT TYPE:<br/>                     Cost No Fee<br/>                     PRON: R312C207R3 PRON AMD: 04 ACRN: AA<br/>                     AMS CD: 63300553D00<br/>                     PSC: AZ11</p> <p><u>Inspection and Acceptance</u><br/>                     INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u><br/>                     DLVR SCH PERF COMPL<br/> <u>REL CD QUANTITY DATE</u><br/>                     001 1 25-JUN-2014</p> <p>\$ 6,497.91</p>  |          |      |            |              |
| 0001AF  | <p><u>LABOR</u></p> <p>SERVICE REQUESTED: Ft Carson Fleet Elec<br/>                     CLIN CONTRACT TYPE:<br/>                     Cost No Fee<br/>                     PRON: R312C207R3 PRON AMD: 04 ACRN: AA<br/>                     AMS CD: 63300553D00</p> <p>Cost only, no fee.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u><br/>                     INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u><br/>                     DLVR SCH PERF COMPL<br/> <u>REL CD QUANTITY DATE</u><br/>                     001 1 25-JUN-2014</p> <p>\$ 88,624.23</p> | 1        | LO   |            | \$ 88,624.23 |
| 0001AG  | <p><u>TRAVEL</u></p> <p>SERVICE REQUESTED: Ft Carson Fleet Elec<br/>                     CLIN CONTRACT TYPE:<br/>                     Cost No Fee<br/>                     PRON: R312C207R3 PRON AMD: 04 ACRN: AA<br/>                     AMS CD: 63300553D00</p> <p>Cost only, no fee.</p>   | 1        | LO   |            | \$ 10,197.77 |



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## SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

FORT CARSON FLEET ELECTRIFICATION  
STATEMENT OF WORK (SOW)Acronyms

AC Alternating Current  
 ARO After receipt of order or contract  
 AWG American Wire Gage  
 C Celsius  
 CDRL Contract Data Requirements List  
 CLIN Contract Line Item  
 DC Direct Current  
 DOD Department of Defense  
 ECU Electronic Control Unit  
 EMC Electro-Magnetic Conduction  
 EMI Electro-Magnetic Interference  
 G2V Grid to Vehicle  
 GFE Government Furnished Equipment  
 IEC International Electrotechnical Commission  
 ISO Independent System Operator  
 JCTD Joint Capability Technology Demonstration  
 KPP Key Performance Parameter  
 kW and kWh kilo-Watts and kilo-Watt hours  
 LiON Lithium Ion  
 MIL-STD Military Standard  
 NAC National Automotive Center  
 NEMA - National Electrical Manufacturer Association  
 OEM Original Equipment Manufacturer  
 OSD Office of the Secretary of Defense  
 PEV Plug-in Electric Vehicle  
 PHEV Plug-in Hybrid Electric Vehicle  
 PJM ISO in Pennsylvania, New Jersey, and Maryland  
 POC Point of Contact  
 PV Photo Voltaic  
 SAE Society of Automotive Engineers  
 SOC State of Charge  
 SOW Statement of Work  
 SPIDERS Smart Power Infrastructure Demonstration for Energy Reliability and Security  
 TARDEC Tank Automotive Research, Development and Engineering Center  
 TBD To be determined  
 UL Underwriters Laboratories  
 V2G Vehicle to Grid  
 VAC Volts Alternating Current  
 VDC Volts Direct Current  
 VVO Volt/VAR optimization

## Fort Carson Fleet Electrification

## C.1 Purpose

The purpose of this project is to facilitate and contribute to the electrification of the US Army Base Fort Carson, CO (Fort Carson) non-tactical vehicle fleet. This effort includes:

- Supply a PEV capable of bi-directional DC power flow as well as support unidirectional AC. \*
- Supply of unidirectional Electric Vehicle Supply Equipment (EVSE) capable of SAE J1772 Level II AC.
- Continue to evolve the grid services performed by the non-tactical PEV fleet. PEV includes plug-in hybrid electric vehicles and plug-in electric vehicles.
- Battery charging of PEVs
- Aggregation of a larger fleet for greater net grid services impact for peak shaving, regulation (voltage/power/frequency), energy storage, and ride-thru energy.
- Data collection of the PEV fleet for comparison versus conventional vehicles.
- Analysis of the impact of grid services on component and system life of the PEV.

A graphical representation of key grid services modes is shown in Attachment 001: Figure 1 relative to installation power demand versus time. The PEV fleet will be used to demonstrate these capabilities on Fort Carson in a cyber secure environment.

## C.2 Objective

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The overall objective is to increase the size of the effective fleet and to further validate the fiscal and grid stabilization value of a non-tactical electric vehicle fleet with cyber secure bi-directional electrical power connectivity for performing grid services in addition to the vehicle's normal mobility requirements. This statement of work (SOW) covers the requirements of electrified fleet mobility and the equipment to support the fleet and grid services that the fleet will be used for besides mobility. Attachment 001: Figure 2 shows the basic elements of the system that include the vehicle, vehicle connectivity, Converter, Aggregator, installation's grid, utility grid, microgrid controller for the installations grid, and communications signals.

The Converters will support power transfer to and from PEVs. The Converters will utilize and demonstrate the emerging SAE standards for grid-connected vehicles communication and power management (SAE J2836, J2847, J2931, and J2953) and the SAE standard for the physical connection between the PEV and Converter (SAE J1772 combo connector). The PEV and Converters will be aggregated to demonstrate bi-directional electrical grid services on the Fort Carson microgrid. Attachment 001: Figure 3 provides a graphic of the PEV (noted as Vehicles), Converters (noted as Bi-directional converter), and microgrid. The Fort Carson microgrid is planned to include more than just the five vehicles as noted in Attachment 001: Figure 3.

In addition, Attachment 001: Figure 3 shows the various modes of operation that will be demonstrated. The Aggregator for the Converters provides communications and control outside of the System. The Aggregator communicates with each Converter, captures and analyzes utility power meter data, communicates with the installation microgrid, and responds to Independent System Operator (ISO) fast frequency regulation signal.

The PEVs will participate through the Converters and Aggregator as a system for power management between the electrical grid and the PEV fleet to manage vehicle state of charge (SOC) and grid services.

### C.3 Background

The Office of the Secretary of Defense (OSD) has sponsored a Department of Defense (DOD) Plug-in Electric Vehicle Project team to develop planning for electrification of the non-tactical fleet. The mission of the team is to develop a cost neutral to cost positive plan for electrification of the DOD's non-tactical vehicle fleet. Cost neutral meaning that the cost of capital (lease) and operation of the new system along with other savings or revenue generated from the new system is the same as the replacement cost (lease) and operation of the conventional equipment. Cost positive means that the new system cost is less than the conventional system. The system analysis includes the cost of vehicles, vehicle maintenance and repair, installation electricity, fuel, charge equipment/Converter, installation integration, and the revenue generated (utility cost abatement) from grid-connected services. The results of the modeling and the planning have led to the conclusion that the non-tactical electric vehicles ought to be considered as an asset that can be used for more than mobility and that value-added electrical grid connected services are key to meeting the cost goals.

Adoption of PEV has been hampered by their higher incremental purchase cost and the associated time to pay back for the additional investment. Well known is that electrified PEV are capital assets that provide mobility value through lower operational costs that offset the higher incremental cost. However, more often than not, the time to offset the incremental cost is unattractive as a capital investment providing a poor rate of return. Not as well known is that PEV have the potential to provide grid connected services such as frequency regulation, installation peak shaving (demand charge mitigation), VVO, and spinning reserve. Grid connected services are valued in existing markets and the estimates of revenue stream from a PEV participating in providing these grid services is significant. Combining mobility savings and grid services creates a revenue stream that cost justifies the PEV incremental cost much more quickly.

Execution of grid services with PEV's requires bi-directional power transfer between PEV's and the grid. The systems for bi-directional power conversion can be mounted either internally with the vehicle or can be externally mounted at the installation. Internal mounting of equipment for bi-directional power transfer provides the most flexibility to export/import grid synchronous AC power but has disadvantages of cost, weight, package space, grid isolation, and component life. When the vehicle is sold or traded, the internal Converter is part of the vehicle and leaves as well. Externally mounted Converter equipment is used when the vehicle exports/imports battery DC bus power for bi-directional power transfer and is weight/size insensitive, easily isolated with a transformer, potentially lower cost, and the Converter capability remains when the PEV is exchanged. However installation mounted equipment requires the PEV to come-home in order to provide the grid-services. Installation fleet vehicles that have a dedicated use/parking-space are well-suited to installation mounted bi-directional equipment.

For several grid services the rate of revenue is a function of the magnitude of available power delivery. Greater rates of revenue potential are created by greater rates of power transfer. The emerging SAE J1772 Combo Connector standards are being developed to provide two to three times greater power transfer with DC voltages than AC. Therefore, vehicle OEMs are planning high power DC connections between the grid and the PEV to enable fast-charging of vehicles. As a result, this project seeks to use installation mounted, high power, bidirectional DC charging systems to demonstrate the value-added services with PEV fleets.

A potential source of DC to grid synchronous AC power conversion could be the photo voltaic (PV) inverter industry. PV arrays generate DC power and the power is converted to AC by PV inverters. These inverters are already Underwriters Laboratories (UL) certified and readily accepted by utilities as viable connection devices pushing power into utility grids. The key developmental need for PV inverters is enabling bi-directional power transfer and communications between PEV's and installations

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grid resource aggregation systems. Other sources of DC/AC bi-directional conversion also exist.

The SPIDERS JCTD will be demonstrating the cyber-secure operation of a Microgrid at Fort Carson, CO. The use of vehicle power from electrified vehicle systems can provide vital grid management services that stabilize the grid and increase energy security for the Microgrid system. Increasing the number of bidirectional power flow capable electric vehicles allows a fuller demonstration of the capabilities that an electrified fleet can provide for energy security and grid stability.

C.4 Program Tasks

C.4.1 PEV

The contractor shall deliver one (1) PEV that is: \*

C.4.1.1 Modified with the SAE J1772 Level II Combo Connector inlet. In place of the SAE J1772 Level II AC inlet the SAE J1772 Level II Combo Connector inlets will be Government Furnished Equipment (GFE) a list of the other GFE is included in Section C.7.

C.4.1.2 Configured to support SAE J1772 Level II AC charging with an on board charger in the event that bi-directional equipment is unavailable and unidirectional is available.

C.4.1.3 Enabled for bi-directional DC power flow from the vehicles' battery bus with the battery management and other vehicle functions operable as required for fast charging.

C.4.1.4 Configured to actively communicate energy management information to the Converter including Battery.

C.4.1.5 Configured to detect and report State of charge (SOC) information as follows:

C.4.1.5.1 Maximum energy storage, kWh

C.4.1.5.2 Minimum energy storage, kWh

C.4.1.5.3 Limits for current and/or power

C.4.1.5.4 Voltage limit, DC volts

C.4.1.6 Configured to actively communicate vehicle system information to the Converter including:

C.4.1.6.1 Vehicle identification for authentication of the vehicle with the Controller

C.4.1.6.2 Communications protocol per the emerging standards for smart grid communications Smart Energy Profile (SEP) 2.0 and SAE standards for communication and power management as per SAE J2836, J2847, J2931, and J2953

C.4.1.7 Capable of communicating with the Converter via the control pilot connection of the SAE J1772 connector and in-line with emerging SAE standards J2836, J2847, J2931, and J2953.

C.4.1.8 Capable of switching power flow direction quickly (0.004 seconds) and often to support system requests G2V or V2G.

C.4.1.9 Capable of operation in temperatures ranging from -20C to 50C it is allowable for the PEV to manage temperatures (heating/cooling) below -20C and above 40C. \*

C.4.1.10 Designed to be parked and operated outdoors (exposed to the elements 365 days per year).

C.4.1.11 Protected for AC under voltage and AC over voltage and over/under AC frequency for unidirectional charging.

C.4.1.12 Protected against DC over current, and have DC ground fault detection for bi-directional systems management provided by the GFE connector.\*

C.4.1.13 Capable of supporting grid services to optimize mobility utilization and grid services value. Attachment 001: Table 1 and Table 2 include notational prioritization of operational modes. The tables represent modes for an operational utility electrical grid (Attachment 001: Table 1) and for a non-

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operational utility grid (Attachment 001: Table 2). Note that the priority of PEV grid services support dramatically changes when the utility grid is unavailable to support microgrid operation.

C.4.1.14 Configured to support fault downloads for trouble shooting and maintenance of the grid connected operations.

C.4.1.15 Configured to provide Energy System Cycling The following data in the figures referenced below was developed by the DOD Plug-in Electric Vehicle Project Team and was presented at the Los Angeles Air Force Industry Day on 3 October 2011. This data is designed to provide energy storage information the PEV OEM and Contractor needed to understand impact on the energy management system and supporting vehicle functions.

C.4.1.15.1 Expected cycling of the PEV energy systems is summarized in Attachment 001: Figure 4 for mobility and grid services. Note that the data includes different information for trucks and automobiles. The data includes summarized driving, peak shaving, regulation, and other undefined uses.

C.4.1.15.2 Each PEV shall support ancillary services of peak shaving and regulation. Ancillary services were represented in Attachment 001: Figure 1 - Grid services of V2G systems relative to an aggregated installation power versus time graph DOD Plug-in Electric Vehicle Project Industry Day Los Angeles Air Force Base (Attachment 001: Figure 1) that show them in relation to an installation's power consumption curve versus time of day.

C.4.1.15.3 Peak Power Shaving The PEV energy system cycling associated with peak power shaving is represented in Attachment 001: Figure 5. Peak shaving is local control over vehicle battery power output fed back to the grid to reduce the peak power demand and reduce demand charges of the installation. By having fast response power capacity on the customer side of the meter, the power peaks of the base can be augmented by connected vehicles. Peak shaving may occur in a 20-30 minute period, a few times per month. The data in Attachment 001: Figure 5 is considered conservative.

C.4.1.15.4 Regulation The PEV energy system cycling associated with regulation is represented in Attachment 001: Figure 6. Regulation with PEV occurs when grid connected PEVs/Converters (power sources/sinks) are synchronized to the grid to keep frequency and voltage steady with automated controls that can respond instantly to requested changes to manage regional system loads and correct for normal fluctuations. Frequency regulation tends to have higher value at night (fewer utility supply resources on the grid) but occurs throughout the day. Regulation uses very little battery power (minimal change in SOC and a typical depth of discharge of approximately two percent)

C.4.1.15.5 Other Ancillary Services The PEV energy system cycling associated with other ancillary services is represented in Attachment 001: Figure 7. Other Ancillary Services could represent spinning reserve uses or installation back-up power in the event the utility grid is off line.

C.4.1.16 Provided with a battery capacity of 20 kWh of energy storage minimum (threshold); 40 kWh of energy storage or greater optimal (objective).

C.4.1.17 The vehicle shall be one (1) light duty 16 foot box truck. The light duty box truck shall have Etrack cargo rails tie downs and a light in box connected to a switch located in the box and in the cab. \*

C.4.1.17.1 The vehicles shall have Air Conditioning, Heating, and a Lift Gate. The lift gate shall have a roll guard that stops wheeled containers from rolling off the lift when engaged. \*

C.4.1.18 The Contractor shall perform the following risk reduction engineering in support of development of bidirectional communications and charging capability installed during the SPIDERS JCTD. The contractor shall reduce the risk of bi-directional vehicle technical issues by completion of this additional engineering effort. The additional risk reduction engineering shall consist of:\*

C.4.1.18.1 Engineering and programming of the on-board battery management system to permit access to the high-voltage battery for bidirectional energy transfer.\*

C.4.1.18.2 Engineering of communication messaging between battery management system and bidirectional converters in accordance with the interface control document developed for the

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SPIDERS JCTD demonstration at Fort Carson.\*

C.4.1.18.3 Initial troubleshooting of onboard vehicle messaging versus the Interface Control Document for the SPIDERS JCTD.\*

C.4.1.18.4 Review and test of system operation with SPIDERS JCTD bidirectional Converter at Fort Carson prior to final delivery of vehicle.\*

## C.4.2 Electric Vehicle Supply Equipment (EVSE)

The Contractor shall supply two unidirectional EVSEs for every PEV supplied in accordance with C.5.2. The EVSEs will be used to augment the availability of the bidirectional capable Converters. The EVSEs shall: \*

C.4.2.1 Supply 240 V AC single phase from the grid to the PEV and having a threshold minimum continuous power of 12 kW and an objective supply of 18 kW.

C.4.2.2 Connect to the PEV via the SAE J1772 Level II Connector.

C.4.2.3 Communicate with the vehicle via the control pilot connection of the SAE J1772 connector and in-line with emerging SAE standards J2836, J2847, J2931, and J2953.

C.4.2.4 Support vehicle battery state of charge control via active feedback with the vehicle's battery management system and power control.

C.4.2.5 Support any PEV in accordance with SAE J1772.

C.4.2.6 Communicate with the Aggregator via Ethernet. This can be a direct Ethernet connection supporting IEC 61850-7-420 or a port connectivity compliant with Modbus Extended over TCP/IP using data mapped from IEC 61850-7-420.

C.4.2.7 Support installation cyber security vehicle authentication and activation/de-activation based on vehicle interactivity with the installations systems .

C.4.2.8 Equipped with metering for energy measurement to support billing by vehicle/Converter ability to measure and report energy usage by the PEV to the Aggregator. It is recommended that the Contractor plan for use of utility grade metering to address larger market potential.

C.4.2.9 Be immune to the environment for electromagnetic interference (EMI) and electromagnetic conducted (EMC) emissions per MIL-STD-461E or commercially per FCC Part 15 Class A.

C.4.2.10 Have a National Electrical Manufacturers Association (NEMA) type 4 minimum environmental enclosure.

C.4.2.11 Support either pedestal (above ground) mounting or wall mounting.

C.4.2.12 Be capable of operation in temperatures ranging from -30C (-22F) to + 40C (104F). For temperatures below minus 20C and above 40C its allowable for the Converter to manage temperatures (heating/cooling). \*

C.4.2.13 Be protected for AC under voltage, AC over voltage and over/under AC frequency, and DC ground fault detection.

C.4.2.14 Meet the requirements for personal protection systems for electrical vehicle supply circuits per UL2231-1 and particular requirements for protection devices for use in charging systems per UL 2231-2.

## C.4.3 Documentation

The Contractor shall supply electronic documentation for operation and maintenance of the PEV and EVSE's in accordance with CDRL's referenced in this SOW.

## C.4.4 PEV Integration into Fort Carson

The Contractor shall provide three engineering personnel for two man-weeks (total of six man-weeks) of integration and training support at Fort Carson in conjunction with the vehicle delivery and acceptance by the government. \*

## C.4.5 Training

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Training shall be performed by the Contractor in accordance with Section C.5.4. The training will be attended by Ft. Carson personnel designated by the leadership at Ft. Carson. The Contractor shall indicate the number of planned days to complete the various training efforts for each equipment deliverable. The training shall cover:

C.4.5.1 Operator Training - The operators are drivers of the PEV that need to use the EVSE's or Converters for vehicle charging. The goal of the operator training shall be to provide drivers and maintainers with the knowledge and experience to safely operate the PEV, EVSE's or Controllers.

C.4.5.2 Maintainer Training Maintainers are the technicians (maintainers of the PEV.) The goals of technician training are to provide technicians with the knowledge and confidence to safely and economically operate the PEV, to safely perform routine maintenance unique to the PEV and perform Level One Service (including daily, monthly, and life cycle maintenance to correctly charge the vehicle), and perform level one service repair (fault download, component replacement, and support remote trouble shooting by Contractor service personnel).

C.4.5.3 The Contractor shall prepare a report of the results of the driver and technician training seminars. The report shall include objective evidence of the training, participant names, comprehension of training, and training material and shall be in accordance with CDRL A016.

C.4.6 PEV Data Collection Parameters

The Contractor shall collect data regarding the operation of the vehicle for comparison with previously acquired data of the conventional, non-tactical vehicle fleet on the Fort Carson installation. The data shall be collected beginning after the delivery of the PEV through the period of performance. Data collection shall include one week per month minimum with no consecutive weeks of data collection. \*

The data to be collected includes:

C.4.6.1 Distance traveled per trip and day, miles.

C.4.6.2 Vehicle speed versus time, miles per hour versus time one measurement per second minimum.

C.4.6.3 Battery SOC versus miles driven, average kWh/mile.

C.4.6.4 Key-on time, hours.

C.4.6.5 GPS (location) data one measurement per second minimum.

C.4.6.6 Grid connected hours per day.

C.4.6.7 Battery current versus time; one measurement per second minimum. \*

C.4.7 PEV System Life Effect Evaluation

The Contractor shall evaluate the relative impact on PEV battery life and other components as appropriate associated with mobility, and grid services through the period of data collection. The Contractor shall provide recommendations regarding vehicle use, and impact of individual grid services including primarily installation peak power shaving and power regulation. By understanding the combined usage profile for mobility and grid services, the Contractor can evaluate the value of performing these functions in conjunction. This evaluation will be the basis for a report in accordance with Section C.5.6 and CDRL A006. \*

C.4.8 Period of Performance

The contractor shall perform the requirements in the scope within thirty (30) months of task order award. \*

C.4.9 Monthly Contractor Progress, Status, and Management Reports

The contractor shall prepare monthly Contractor's Progress, Status, and Management Report in accordance with Sections C.5.8 and C.6.4 and CDRL A009.

C.4.10 Meetings and Meeting Minutes

The Contractor shall engage in meetings with TARDEC personnel on a weekly basis and prepare the minutes of all scheduled meetings in accordance with CDRL A002. The weekly meeting minutes shall be summarized in the monthly Contractor's Progress,

**Name of Offeror or Contractor:** SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

Status, and Management Report in accordance with Sections C.5.11 and C.6.4 and CDRL A002.

C.4.11 Start of Work Meeting

The contractor shall prepare for and attend one Start of Work Meeting at TARDEC's facilities at the Detroit Arsenal, Michigan in accordance with Sections C.5.9 and C.6.1, and CDRL A002.

C.4.12 Interim Program Review

The contractor shall prepare for and attend one Interim Program Review in accordance with Sections C.5.10 and C.6.2, and CDRL A002.

C.4.13 Final Program Review

The contractor shall prepare for and attend one Final Program Review in accordance with Sections C.5.10 and C.6.3, and CDRL A002.

C.5 Deliverables

C.5.1 PEV

One (1) PEV shall be delivered to Fort Carson for integration into the Fort Carson non-tactical fleet IAW Section C.4.1 twenty-four (24) months after receipt of order (ARO). \*

C.5.2 EVSE's

Two (2) EVSE's shall be delivered to and installed at Fort Carson for integration into the Fort Carson installation IAW Section C.4.2 eighteen (18) months ARO. \*

C.5.3 Fort Carson PEV Integration

The Contractor shall integrate the PEV into Fort Carson installation fleet IAW Section C.4.4 and deliver twenty-four (24) months ARO. \*

C.5.4 Fort Carson PEV Training

The Contractor shall provide training on the operation of the Converter, PEV and system maintenance in accordance with Section C.4.5 and CDRL A016.

C.5.5 Fort Carson Operational Demonstration Support

REMOVED. \*

C.5.6 Report on Demonstration and Value of the Vehicle based Grid Services

The Contractor shall provide a report IAW CDRL A006 on the demonstrated grid services performed and the value of the services performed on Fort Carson IAW Section C.4.7. This report shall include the results of the driver and technician training seminars including objective evidence of the training, participant names, comprehension of training and training material IAW Section C.4.5.3.

C.5.7 Documentation

The Contractor shall supply a technical report for Converter installation, set-up, operation, and maintenance of the system in accordance with Section C.4.1.15.2 and CDRL A006. The contractor shall deliver this report within twenty one months ARO. \*

C.5.8 Monthly Contractor Progress, Status, and Management Reports

The Contractor shall electronically deliver a monthly Contractor's Progress, Status, and Management Report in accordance with Sections C.4.9 and C.6.4, and CDRL A009.

C.5.9 Start of Work Meeting

The Contractor shall deliver the elements of the Start of Work/Kick-off Meeting as outlined in Section C.4.11 above, Section C.6.1 below, and in accordance with CDRL A002.

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## C.5.10 Interim and Final Program Reports

The Contractor shall electronically deliver:

C.5.10.1 One (1) Final Report in accordance with Sections C.4.13 and C.6.3, and CDRL A007.

C.5.10.2 One (1) Interim Report in accordance with Sections C.4.12 and C.6.2, and CDRL A007.

## C.5.11 Meetings and Meeting Minutes

The Contractor shall deliver minutes of all scheduled meetings IAW Section C.4.10 and CDRL A002.

## C.6 Meetings

## C.6.1 Project Planning and Management

Start of Work/Kick-Off Meeting: The Contractor shall schedule and conduct a Start of Work meeting within 150 days after date of task order award IAW Sections C.4.11, and CDRL A002. The meeting will be held at TARDEC, unless both parties mutually agree to an alternate location. Meeting deliverables shall include:

- All proposed aspects of their planned work.
- A plan for accomplishing the task order requirements and milestones.
- Timeline of the project (broken down by each Task as itemized in the task order).
- Financial breakdown of the project
- Points of Contact (POC's), POC contact information, and respective project responsibilities
- Program and task order management
- Status of the project, open issues

## C.6.2 Interim Program Review:

The contractor shall initiate, plan, coordinate, and conduct an Interim Program Review within eighteen (18) months after the date of the task order award. The meeting will be held at TARDEC, unless both parties mutually agree to an alternate location. At the meeting, the contractor shall present the progress to date, open issues, and financial report in accordance with Sections C.4.12 and C.5.11, and CDRL A002. \*

## C.6.3 Final Program Review:

The contractor shall initiate, plan, coordinate, and conduct a Final Program Review. The meeting location will be at TARDEC within thirty (30) months after the date of task order award, unless both parties mutually agree to an alternate location in accordance with Sections C.4.13 and C.5.11, and CDRL A002. \*

## C.6.4 Weekly Meetings and Monthly Reporting

The contractor shall coordinate and perform weekly update meetings with TARDEC and provide a monthly summary of these meetings in form of action items managed, schedule, completion of schedule elements, man power applied, issues captured, and sub-contractor performance in accordance with Sections C.4.10 and C.5.8, and CDRL A002.

## C.7 Government Furnished Equipment

## C.7.1 SAE J1772 Level II Combo Connectors

The SAE J1772 Level II Combo Connectors will be provided 14 months after task order award as follows: \*

C.7.1.1 One plug (grid side) will be provided for the Contractor's vehicle simulation and development activity. Each plug comes with a 25 foot long Charge Plug with #2AWG Cable for DC+/DC-; 6AWG cable for physical earth (PE); 4x 18AWG for signal cable for connection into the Converter.

C.7.1.2 One inlet (vehicle side) per vehicle will be provided for the Contractor's integration into the PEV plus one additional for development needs. Each inlet includes a 150 Amp DC and 30 Amp AC Vehicle Inlet with #2AWG Cable for DC+/DC-; 6AWG cable for PE; 2x 18AWG for signal; 2x 10AWG for AC L1/N; 3 ft total cable length; Right Angle Cable Exit; plus Integral Latch Lock.

## C.7.2 Converters

Fort Carson will have a total of five Converters installed on the microgrid. More will be added as funding allows.

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Each converter will support communications with the PEV, PEV battery charging, bi-directional power flow, and a maximum power capability threshold of 40 kW, and objective of 60 kW. All Converters will be in use on Fort Carson during the task order period and will remain Government property. All Converters will be equipped with a SAE J1772 II Combo Connector plug.

C.7.3 Fort Carson EVSE Mounting

C.7.3.1 Mounting Pads or wall mounting points will be provided for the integration/mounting of the EVSE's into the installation microgrid.

C.7.3.2 Power Cable Connectivity from the EVSE's to the microgrid will be provided.

C.7.3.3 The single Ethernet connections between the EVSE's and the Aggregator will be provided.

EVSE Mounting includes coordination with Ft. Carson personnel who will authorize, approve, and accept the EVSE installation and who will facilitate the installation team access to Ft. Carson and the coordination of supporting services (power and Ethernet) during the installation process and testing.\*

C.7.4 Conventional Vehicle Data

C.7.4.1 Data on the duty cycle normally performed by conventional vehicles on Fort Carson shall be provided by the Government eight (8) months after contract award.

C.7.5 SPIDERS Interface Control Document \*

C.7.5.1 The Government will provide the approved version of the Interface Control Document for Vehicle to Grid Communications developed as part of the SPIDERS Demonstration. \*

C.8 Option 1

C.8.1 Option 1: Deliver one bidirectional PEV and EVSE system

If the Contracting Officer exercises Option 1 the Contractor shall perform the following:

C.8.1.1 The Contractor shall deliver one (1) PEV that meets the requirements listed in section C.4.1 and its subsections. The contractor shall deliver the PEV to Fort Carson, Colorado six (6) months after exercise of Option 1.

C.8.1.2 The Contractor shall deliver one (1) EVSE that meets the requirements listed in Section C.4.2 and its subsections. The contractor shall deliver and install the EVSE to Fort Carson, Colorado five (5) months after exercise of Option 1.

C.8.1.3 The Contractor shall provide training on the delivered PEV and EVSE as required in section C.4.5.

C.8.1.4 The Contractor shall provide data collection on the PEV as required in Section C.4.6 and its subdivisions. The data collection shall begin upon delivery of the PEV and occur through the period of performance of Option 1 as stated in Section C.8.1.6.

C.8.1.5 One SAE J1772 Level II Combo Connector as described in Section C.7.1 shall be provided by the Government within one month of exercise of Option 1.

C.8.1.6 The period of performance of Option 1 is twelve (12) months from the exercise date.

\* Changed by Modification 02

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**CONTINUATION SHEET****Reference No. of Document Being Continued****Page 15 of 18****PIIN/SIIN** W56HZV-09-D-0153/0004**MOD/AMD** 02

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

**CONTINUATION SHEET****Reference No. of Document Being Continued****Page 16 of 18****PIIN/SIIN** W56HZV-09-D-0153/0004**MOD/AMD** 02**Name of Offeror or Contractor:** SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

## SECTION F - DELIVERIES OR PERFORMANCE

## F.1 PERIOD OF PERFORMANCE

F.1.1 The base period of performance for Task Order 0004 will be twenty one (21) months after the Task Order award date. \*

F.1.2 If exercised, Task Order 0004 will have one (1) twelve (12) month Option period of performance beginning from the exercise date.

\* Changed by Modification 02

\*\*\* END OF NARRATIVE F0001 \*\*\*

**CONTINUATION SHEET**

**Reference No. of Document Being Continued**

**PIIN/SIIN** W56HZV-09-D-0153/0004 **MOD/AMD** 02

**Name of Offeror or Contractor:** SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

SECTION G - CONTRACT ADMINISTRATION DATA

| LINE       | PRON/<br>AMS CD/<br>MIPR/<br><u>ITEM</u> | OBLG<br><u>STAT</u> | JO NO/<br><u>ACCT ASSIGN</u> | ACRN  | PRIOR AMOUNT  | INCREASE/<br>DECREASE | CUMULATIVE<br>AMOUNT |
|------------|--|---------------------|------------------------------|-------|---------------|-----------------------|----------------------|
| 0001AB     | R312C207R3<br>63300553D00                | 1                   | 12C207                       | AA \$ | 440,867.92 \$ | -98,822.00 \$         | 342,045.92           |
| 0001AF     | R312C207R3<br>63300553D00                | 2                   | 12C207                       | AA \$ | 0.00 \$       | 88,624.23 \$          | 88,624.23            |
| 0001AG     | R312C207R3<br>63300553D00                | 2                   | 12C207                       | AA \$ | 0.00 \$       | 10,197.77 \$          | 10,197.77            |
| NET CHANGE |  |                     |                              |       |               | \$ 0.00               |                      |

| ACRN       | ACCOUNTING CLASSIFICATION                    | INCREASE/<br>DECREASE |
|------------|--|-----------------------|
| AA         | 21 12040000016N6N7EP633005255Y S20113 W56HZV | \$ 0.00               |
| NET CHANGE |  | \$ 0.00               |

| NET CHANGE FOR AWARD: | PRIOR AMOUNT<br>OF AWARD | INCREASE/DECREASE<br>AMOUNT | CUMULATIVE<br>OBLIG AMT |
|-----------------------|--------------------------|-----------------------------|-------------------------|
| \$                    | 641,861.14               | \$ 0.00                     | \$ 641,861.14           |

| LINE   | ACRN | EDI/SFIS ACCOUNTING CLASSIFICATION                                    |
|--------|------|---|
| 0001AB | AA   | 21 111220400000 W56HZV 16N6N7E63300553D00255YR312C207R3 12C207 S20113 |
| 0001AF | AA   | 21 111220400000 W56HZV 16N6N7E63300553D00255YR312C207R3 12C207 S20113 |
| 0001AG | AA   | 21 111220400000 W56HZV 16N6N7E63300553D00255YR312C207R3 12C207 S20113 |

**CONTINUATION SHEET**

**Reference No. of Document Being Continued**

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**PIIN/SIIN** W56HZV-09-D-0153/0004

**MOD/AMD** 02

**Name of Offeror or Contractor:** SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

SECTION J - LIST OF ATTACHMENTS

| <u>List of</u><br><u>Addenda</u> | <u>Title</u>                           | <u>Date</u> | <u>Number</u><br><u>of Pages</u> | <u>Transmitted By</u> |
|----------------------------------|--|-------------|----------------------------------|-----------------------|
| Exhibit A                        | CONTRACT DATA REQUIREMENTS LIST (CDRL) | 10-DEC-2012 |                                  | DATA                  |

CONTRACT DATA REQUIREMENTS LIST Form Approved

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.: D. SYSTEM/ITEM.....: TARDEC Omnibus Services
- B. EXHIBIT : A E. CONTRACT/PR NO.:
- C. CATEGORY.....: F. CONTRACTOR.....:

- 
- 1. DATA ITEM NO. ....: A002
  - 2. TITLE OF DATA ITEM : Conference Minutes
  - 3. SUBTITLE .....
  - 4. AUTHORITY .....: DI-ADMIN-81250A
  - 5. CONTRACT REFERENCE: Statement of Work Sections C.4.9, C.4.10, C.4.11, C.4.12, C.5.9, C.5.11 C.6.1, C.6.2. C.6.3, C.6.4
  - 6. REQUIRING OFFICE .: RDTA-RS MS121
  - 7. DD250 REQ ..... : LT
  - 8. APP CODE ..... : N/A
  - 9. DIST. STATEMENT REQUIRED:N/A
  - 10. FREQUENCY :Please See Block 16
  - 11. AS OF DATE: Date of Meeting
  - 12. DATE OF FIRST SUB: See Block 16
  - 13. DATE OF SUBS. SUB: See Block 16

14. DISTRIBUTION ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Steven Eick, FTR, EMAIL: steven.t.eick.civ@mail.mil

15. TOTAL: 1

16. REMARKS:

- a. Meeting Minutes shall be supplied within three days after the weekly meeting.
- b. Meeting Minutes shall be supplied within five days after the Interim Program Review and Final Program Review.
- c. Meeting Minutes shall be supplied within three days after the Start of Work Meeting.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

- 
- 1. DATA ITEM NO. ....: A006
  - 2. TITLE OF DATA ITEM : Technical Report Study/Services
  - 3. SUBTITLE .....
  - 4. AUTHORITY .....: DI-MISC-80508B
  - 5. CONTRACT REFERENCE: Sections C.5.6, C.5.7
  - 6. REQUIRING OFFICE .: RDTA-RS, MS121
  - 7. DD250 REQ ..... : DD
  - 8. APP CODE ..... : A
  - 9. DIST. STATEMENT REQUIRED: N/A
  - 10. FREQUENCY :One Time
  - 11. AS OF DATE:10 Months after contract award
  - 12. DATE OF FIRST SUB: 17 months after contract award \*
  - 13. DATE OF SUBS. SUB: N/A

14. DISTRIBUTION ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Steven Eick, FTR, EMAIL: steven.t.eick.civ@mail.mil

Michael Ivkov, Contract Specialist, EMAIL: michael.g.ivkov.civ@mail.mil

AS DESIGNATED IN INDIVIDUAL TASK ORDERS.

15. TOTAL: 2

16. REMARKS:

- a. Contractor Format is acceptable
- b. Written approval by FTR on report content required
- c. Government permitted 15 business days for review prior to written approval

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

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- 1. DATA ITEM NO. ....: A007
- 2. TITLE OF DATA ITEM : Scientific and Technical Reports
- 3. SUBTITLE .....
- 4. AUTHORITY .....: DI-MISC-80711A
- 5. CONTRACT REFERENCE: Statement of Work Sections C.5.10, C.5.10.1,C.5.10.2,
- 6. REQUIRING OFFICE .: RDTA-RS, MS121
- 7. DD250 REQ ..... : DD
- 8. APP CODE ..... : A
- 9. DIST. STATEMENT REQUIRED:N/A
- 10. FREQUENCY : Twice
- 11. AS OF DATE: One week Prior to Delivery of Report
- 12. DATE OF FIRST SUB: 17 months after Contract Award \*
- 13. DATE OF SUBS. SUB: 20 months after Contract Award \*

14. DISTRIBUTION ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Steven Eick, FTR, EMAIL: steven.t.eick.civ@mail.mil  
Michael Ivkov, Contract Specialist, EMAIL: michael.g.ivkov.civ@mail.mil

AS DESIGNATED IN INDIVIDUAL TASK ORDERS.

15. TOTAL: 4

16. REMARKS:

- a. Contractor Format is acceptable
- b. Written approval by FTR on report content required
- c. Government permitted 15 business days for review prior to written approval

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

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- 1. DATA ITEM NO. ....: A009
- 2. TITLE OF DATA ITEM : Contractor's Management and Status Report
- 3. SUBTITLE .....
- 4. AUTHORITY .....: DI-MGMT-80227
- 5. CONTRACT REFERENCE: Statement of Work Section C.4.8, C.5.8
- 6. REQUIRING OFFICE .: RDTA-RS, MS121
- 7. DD250 REQ ..... : LT
- 8. APP CODE ..... : N/A
- 9. DIST. STATEMENT REQUIRED:
- 10. FREQUENCY : Monthly unless specified otherwise
- 11. AS OF DATE: Contract Award
- 12. DATE OF FIRST SUB: 1 Month after Contract Award
- 13. DATE OF SUBS. SUB: 1 Month after previous submission

14. DISTRIBUTION ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Steven Eick, FTR, EMAIL: steven.t.eick.civ@mail.mil

Michael Ivkov, Contract Specialist, EMAIL: michael.g.ivkov.civ@mail.mil

AS DESIGNATED IN INDIVIDUAL TASK ORDERS.

15. TOTAL:24

16. REMARKS:

a. Contractor Format is Acceptable

b. Date of submission of Monthly Report is permitted to be submitted three working days prior to Date of submission or three working days after Date of submission without Penalty. Any submission outside this timeframe shall be considered non-compliant.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

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- 1. DATA ITEM NO. ....: A016
- 2. TITLE OF DATA ITEM: Training Materials
- 3. SUBTITLE .....
- 4. AUTHORITY .....
- 5. CONTRACT REFERENCE: Statement of Work Section C.4.5.3, C.5.4
- 6. REQUIRING OFFICE...: RDTA-RS MS 121
- 7. WAWF/DD250 REQ\ '85 . : LT
- 8. APP CODE .....
- 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 ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Steven Eick, FTR, EMAIL: steven.t.eick.civ@mail.mil  
Michael Ivkov, Contract Specialist, EMAIL: michael.g.ivkov.civ@mail.mil

15. TOTAL: 5

16. REMARKS:

- a. DI-ADMN-81249A is tailored by deleting 10.2.1.2
- b. Training Materials shall be supplied within five (5) days after the training is held.
- c. Distribution shall be made in Microsoft Office Documents.
- d. Contractor format is acceptable.
- e. Government shall have 10 days to review submission prior to submitting written approval.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

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\* Changed by Modification 02