

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. Contract ID Code
Cost Plus Fixed Fee

Page 1 Of 12

| | | | |
|-------------------------------------|--------------------------------|---|--------------------------------|
| 2. Amendment/Modification No. 03 | 3. Effective Date 2014FEB26 | 4. Requisition/Purchase Req No. SEE SCHEDULE | 5. Project No. (If applicable) |
|-------------------------------------|--------------------------------|---|--------------------------------|

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

| | | |
|--|-------------------------------------|--|
| 8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code) SCIENCE APPLICATIONS INTERNATIONAL CORPORATION 1710 SAIC DR 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. W56HZV-09-D-0153/0003 |
| | <input type="checkbox"/> | 10B. Dated (See Item 13) 2012AUG31 |
| 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)

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.**

| | | |
|-------------------------------------|---|--|
| <input type="checkbox"/> | A. This Change Order is Issued Pursuant To: The Contract/Order No. In Item 10A. | The Changes Set Forth In Item 14 Are Made In |
| <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: | Mutual Agreement of the Parties |
| <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) LYNN M. BYRNE LYNN.M.BYRNE@US.ARMY.MIL (586)282-6553 | | |
| 15B. Contractor/Offeror (Signature of person authorized to sign) | 15C. Date Signed | 16B. United States Of America By _____ /SIGNED/ (Signature of Contracting Officer) | 16C. Date Signed 2014FEB26 |

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 2 of 12****PIIN/SIIN** W56HZV-09-D-0153/0003**MOD/AMD** 03**Name of Offeror or Contractor:** SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: LISA M. KOSKI
Buyer Office Symbol/Telephone Number: CCTA-ASG-C/(586)282-9617
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 ***

W56HZV-09-D-0153/0003 Modification 03

1. The purpose of this bilateral Modification 03 is to extend the Period of Performance (PoP) on the base effort and Option 1.
2. As a result of Modification 03, the contract is hereby modified as follows:
 - a. Section B
 - i. CLIN 0001AA performance completion date changed to 30 May 2014.
 - ii. CLIN 0004 performance completion date changed to 30 May 2015.
 - b. Section C
 - i. C.4.2, Final Report due date changed to 30 May 2014.
 - ii. C.5.1.3.1, C.5.1.3.2, C.5.1.3.6.1, Option 1 report dates revised. All revised dates are underlined.
 - c. Section F
 - i. F.1. performance completion date updated. All changes are underlined.
 - ii. F.1.1 performance completion date updated. All changes are underlined.
 - d. Section J, CDRL A007, revised date.
3. As a result of this Modification 03 the total contract amount remains unchanged.
4. Except as provided herein, all other terms and conditions of this contract remain unchanged.

*** END OF NARRATIVE A0004 ***

CONTINUATION SHEET

Reference No. of Document Being Continued
 PIIN/SIIN W56HZV-09-D-0153/0003 MOD/AMD 03

Name of Offeror or Contractor: SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

| ITEM NO | SUPPLIES/SERVICES | QUANTITY | UNIT | UNIT PRICE | AMOUNT | | | | | | |
|---------------|---|---------------|-----------------|--|---|---|-------------|--|--|--|--|
| | SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS | | | | | | | | | | |
| 0001 | Power Brick | | | | | | | | | | |
| 0001AA | <u>BASE EFFORT POWER BRICK</u> | 1 | LO | Estimated Cost Fixed Fee Not to Exceed (Funding) | \$ _____ 762,217.00 \$ _____ 77,704.00 \$ _____ 839,921.00 | | | | | | |
| | SERVICE REQUESTED: Power Brick CLIN CONTRACT TYPE: Cost Plus Fixed Fee PRON: R322C022R3 PRON AMD: 03 ACRN: AA AMS CD: 63300544100 PSC: AC41 | | | | | | | | | | |
| | <u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination | | | | | | | | | | |
| | <u>Deliveries or Performance</u> DLVR SCH PERF COMPL <table border="0"> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>30-MAY-2014</td> </tr> </table> \$ 839,921.00 | <u>REL CD</u> | <u>QUANTITY</u> | <u>DATE</u> | 001 | 1 | 30-MAY-2014 | | | | |
| <u>REL CD</u> | <u>QUANTITY</u> | <u>DATE</u> | | | | | | | | | |
| 001 | 1 | 30-MAY-2014 | | | | | | | | | |
| 0004 | <u>OPTION 1</u> | 1 | LO | Estimated Cost Fixed Fee Not to Exceed (Funding) | \$ _____ 910,946.00 \$ _____ 91,081.00 \$ _____ 1,002,027.00 | | | | | | |
| | SERVICE REQUESTED: SAIC - POWER BRICK CLIN CONTRACT TYPE: Cost Plus Fixed Fee PRON: R33MC019R3 PRON AMD: 06 ACRN: AB AMS CD: 633005441 | | | | | | | | | | |
| | <u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination | | | | | | | | | | |
| | <u>Deliveries or Performance</u> DLVR SCH PERF COMPL <table border="0"> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>30-MAY-2015</td> </tr> </table> \$ 1,002,027.00 | <u>REL CD</u> | <u>QUANTITY</u> | <u>DATE</u> | 001 | 1 | 30-MAY-2015 | | | | |
| <u>REL CD</u> | <u>QUANTITY</u> | <u>DATE</u> | | | | | | | | | |
| 001 | 1 | 30-MAY-2015 | | | | | | | | | |

Name of Offeror or Contractor: SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

Power Brick Development Program
Statement of Work

OBJECTIVE

The objective of this effort is to develop, build, and test high-power modular batteries (hereafter referred to as Power Brick Batteries) for use in pulse power applications.

C.1. REQUIREMENTS

The contractor, acting as an independent contractor and not an agent of the government, shall provide the necessary personnel, facilities, materials and services to complete the effort described below.

C.1.1. Voltage

The Power Brick Batteries shall be charged from an input port and discharged through a separate output port. The Power Brick Battery shall have a charge and discharge voltage of 600 volts (V) in accordance with MIL-PRF-GCS600A.

C.1.2. Energy

The Power Brick Batteries shall provide at least thirty (30) watt hours (Wh) of usable energy.

C.1.3. Power

The Power Brick Batteries shall provide at least five (5), one (1) second duration discharge pulses with an average discharge power of at least twenty (20) kW and a peak power of forty (40) kW.

C.1.4. Size

The Power Brick Batteries shall have a volume less than fifteen (15) liters with a maximum depth of twenty (20) centimeters (cm).

C.1.5. Temperature Range

The full temperature ranges shall be achieved without the use of any active environmental control system. The Power Brick Batteries shall be able to operate over an ambient temperature range of -37 degrees Celsius (C) to 60 C (-35 degrees Fahrenheit (F) to 140 F). The Power Brick Batteries shall be able to be stored over an ambient temperature range of -51 C to +71 C (-60 F to 160 F).

C.1.6. Battery Management System

The Power Brick Batteries shall contain a battery management system (BMS). The BMS system shall provide for cell balancing and status reporting via a Controller-Area Network (CAN) bus. The CAN message structure, fault codes, and addressing shall be mutually agreed to between the contractor and the COR. The BMS shall also provide the following functions and report the following information:

- *State of charge
- *State of health
- *Voltage
- *Current
- *Battery Temperature
- *Error Messages/Indicators

C.1.7. Safety

The Power Brick Batteries shall comply with the safety requirements in MIL-PRF-GCS600A. The Power Brick shall have an electrical contactor in both the high voltage charging and discharging circuits to provide electrical isolation from external sources and loads. The charging circuit shall include a provision to prevent back-feeding the charging power source from the battery. The Power Brick Batteries shall have external warning lights that illuminate whenever either contactor is engaged. The warning lights should be clearly visible to the user. The Power Brick Batteries shall also have safety controls needed to prevent overcharge, overdischarge, short circuit, and over temperature. These safety controls shall self activate, with CAN warning message, when a potential hazard is detected by the battery and shall be software programmable to allow for self reset or user reset when the hazard is removed.

C.1.8. Sand and Dust Requirements

The Power Brick Batteries shall be able to successfully pass the Sand and Dust test per MIL-STD-810G Method 510.4.

C.1.9. Altitude

The Power Brick Batteries shall provide rated power up to 4,000 ft. above sea-level and shall operate up to 12,000 ft above sea-level.

C.1.10. EMI

The Power Brick Batteries shall meet or exceed Electro-Magnetic Interference requirements per MIL-STD-461E, including sections RE 101, RE 102, RS 101, and CE 101.

C.1.11. Shock & Vibration

The Power Brick Batteries shall remain operable after functional shock per MIL STD- 810G 516.5 Procedure I. The Power Brick battery shall also remain functional after average shock level per MIL STD 810G Method 522 Ballistic Shock. The Power Brick Battery shall remain functional after vibration per MIL-STD-810G 514.6 Annex E, Category 24 General Minimum Integrity Test.

Name of Offeror or Contractor: SCIENCE APPLICATIONS INTERNATIONAL CORPORATION**C.1.12. Salt Fog**

The Power Brick Batteries shall meet all functional requirements and show no evidence of degradation after exposure to salt fog in its operational or storage configuration per MIL-STD-810G, Method 509.4, Procedure I.

C.1.13. Battle Override

The Power Brick Batteries shall have a battle override mode which can be activated by the user through CAN control allowing for extended operation which could otherwise damage the battery. All critical safety parameters according to C.1.7 shall not be violated during battle override mode.

C.1.14. Venting

The Power Brick Batteries shall be housed in a metal enclosure with a vent mechanism that prevents the battery from creating a safety issue as described C.1.7.

C.2. TASKS**C.2.1 Tasks**

The contractor shall design, develop, build, and deliver to the government a total of five (5) Power Brick Batteries, meeting the requirements defined in C.1. The Power Brick Batteries shall be delivered to TARDEC according to C.4.5.

C.3. MEETINGS**C.3.1. Start of Work**

The contractor shall plan and conduct a kick-off meeting, via telephone (or in person if mutually agreed between the contractor and the COR), with the COR no later than one (1) month after contract award. At the meeting, the contractor shall explain its intended approach for accomplishing the Statement of Work (SOW). The contractor shall deliver to the government a meeting agenda at least three (3) days prior to the start of work meeting, in accordance with CDRL A001, Conference Agenda. In addition, the contractor shall record all meeting minutes and action items, and shall deliver the meeting minutes and a meeting report within ten (10) days after the start of work meeting, in accordance with CDRL A002, Conference Minutes and CDRL A003, Conference Report, respectively. The contractor shall also deliver any presentation materials used in the start of work meeting to the government within three (3) days after the start of work meeting in accordance with CDRL A005, Presentation Material.

C.3.2. Quarterly Review Meetings

The contractor shall host quarterly meetings at its facility (or at another facility mutually agreed upon by the contractor and the COR), at a date and time mutually agreed upon by the contractor and the COR. At the quarterly meetings, the contractor shall present the progress made during the previous quarter and validate it against the contract SOW, schedule and objectives. The contractor shall deliver to the government a meeting agenda at least three (3) days prior to each quarterly review meeting, in accordance with CDRL A001, Conference Agenda. In addition, the contractor shall record all meeting minutes and action items, and shall deliver the meeting minutes and a meeting report within ten (10) days after each quarterly review meeting, in accordance with CDRL A002, Conference Minutes and CDRL A003, Conference Report, respectively. The contractor shall also deliver any presentation materials used in a quarterly review meeting to the government within three (3) days after the start of work meeting in accordance with CDRL A005, Presentation Material.

C.4. DELIVERABLES**C.4.1. Contract Work Breakdown Structure**

The contractor shall prepare and deliver a contract work breakdown structure for this effort according to CDRL A013, Contract Work Breakdown Structure within one (1) month after contract award.

***C.4.2. Scientific and Technical Reports/Final Technical Report**

The contractor shall prepare and submit a draft scientific and technical report (final report) within ten (10) months after contract award in accordance with CDRL A007. The COR shall review the draft final report and make comments or request revisions within thirty (30) days of receipt. The contractor shall submit the final version of the final report NLT 30 May 2014. The final report replaces the Status Report detailed in CDRL A010 that would be due in the relevant period. The report shall summarize the work completed; significant accomplishments, problems or delays; studies completed during the contract performance period; and test results and their analysis and impact on the program.

C.4.3. Scientific and Technical Reports Summary

The contractor shall prepare and deliver a scientific and technical report summary summarizing the scientific and technical report in C.4.2 in accordance with A014 within twelve (12) months after contract award.

C.4.4. Status Reports

The contractor shall prepare and submit status reports once every 2 months in accordance with CDRL A010, Status Reports. The first report shall be delivered to the COR approximately sixty (60) days after contract award.

C.4.5. Power Brick Battery Deliverables

The contractor shall deliver the five (5) Power Brick Batteries built under C.2.1 to TARDEC for testing within twelve (12) months after

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

contract award.

C.4.6. Cables for Power Brick Batteries

The contractor shall provide one set of 20 foot power output cables with each Power Brick Battery delivered under C.4.5. One end shall be terminated with a connector compatible with the battery system the other end shall be unterminated. The cables shall be stranded copper wire, 6 AWG or larger. Positive cables shall have red jacket material and negative cables shall have black jacket material. The contractor shall also provide two (2) twenty (20) foot long control cables with each Power Brick Battery delivered under C.4.5: (1) One (1) dedicated for battery charging when using contractor control software, and (2) One (1) that supports CAN communications with user-developed software using a DB9 connector and external power connections to the main contactor.

C.4.7. Safe Operation Document

The contractor shall provide a document that details all of the requirements necessary for the safe operation and testing of the Power Brick Batteries developed and produced in accordance with CDRL A019. This document shall include information on cycling parameters and methods, shall include material safety data sheets (MSDSs), and shall be updated and delivered to TARDEC in accordance with CDRL A019 prior to the delivery of any batteries.

C.4.8. Operation & Maintenance Instructions

The contractor shall deliver a document that provides government personnel necessary operating, diagnostic, and repair procedures for using and maintaining the Power Brick Batteries developed and produced in accordance with CDRL A015. This document shall be updated and delivered to TARDEC in accordance with CDRL A015 prior to the delivery of any batteries.

C.4.9. BMS Interface Software

The contractor shall provide Windows\99-compatible, user BMS Interface Software & Documentation per CDRL A021, for battery charging and control of the BMS for the Power Brick Batteries prior to the delivery of any batteries.

C.4.10. BMS Interface Control Document (ICD)

The contractor shall provide a BMS ICD in accordance with CDRL A020 for the Power Brick Batteries within ten (10) months after contract award.

C.4.11. Product Drawing & Electrical Schematics

The contractor shall provide product drawings and electrical schematics for the Power Brick Batteries in accordance with CDRL A012, Product Drawings Models and Associate Lists prior to the delivery of any batteries.

C.4.12. Power Brick Battery Mock-up

The contractor shall deliver to TARDEC one Power Brick Battery Mock-up within twelve (12) months after contract award. The mock-ups shall be weighted to reflect the weight of the actual Power Brick Batteries and shall be of the same construction of the actual Power Brick Batteries. The battery cells used in the mock-ups shall all be dummy cells which have an external appearance indistinguishable from the real cells; however, all other components should be the same as those used in the actual Power Brick Batteries. The mock-ups shall be left unsealed to allow viewing and removal of the interior components of the mock-up.

C.4.13 Battery Management System Deliverables

The contractor shall deliver to the government three (3) battery management systems (BMSs) of the same type, construction, and design as the ones inside the Power Brick Batteries developed in C.2 within eight (8) months after contract award for use in hardware-in-the-loop testing. These BMSs shall be fully functional and shall be modified such that the BMSs can be powered by an external power supply. Additionally, all sensors in the BMS shall be wired for external connection to simulated signals. All current sensors shall be bypassed on the BMS to allow input of a voltage as opposed to a current. The contractor shall provide an equation, table, or graph per CDRL A012, dictating all current sensors output voltages when current is applied over the complete current range of the Power Brick Battery. The contractor shall also provide an equation, table, or graph per CDRL A012, dictating output voltages of all other sensors in respect to their typical input signals. The BMSs shall have a twenty (20) foot cable which is electrically connected to the BMSs sensor inputs on one end and which is terminated with a multi-pin, tool-less disconnect connector on the other end with the mating connector. The BMS shall also have a twenty (20) foot cable for the external power connection which is electrically connected to the BMS on one end and unterminated on the other end. Additionally, the BMS shall have a twenty (20) foot long control cable that supports CAN communications with user-developed software using a DB9 connector and external power connections to the main contactor.

OBJECTIVE OF OPTIONS

The objective of the following options is to assess the maturity of the Power Brick Batteries by subjecting them to technology readiness level (TRL) testing.

C.5. OPTIONS

C.5.1. Option 1: TRL 5 Testing

C.5.1.1. Tasks

The contractor shall build an additional ten (10) Power Brick Batteries, meeting the requirements of C.1 and the design developed in C.2, and shall test these Power Brick Batteries according to C.5.1.1.1 to determine whether the batteries meet a maturity of technology

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readiness level (TRL) 5.

C.5.1.1.1. TRL 5 Testing**C.5.1.1.1.1. TRL5 Test Plan**

The contractor shall prepare and deliver a detailed test plan to the COR outlining the tests to be conducted on the Power Brick Batteries to achieve TRL 5 within one (1) month after exercise of this option, in accordance with CDRL A016. The COR shall review the test plan within fifteen (15) days after receipt and provide concurrence or comment. At a minimum, the plan shall verify and validate the requirements listed in C.1, as well as include the following tests: 1) rate characterization, 2) pulse power, 3) stand, 4) life-cycle capacity, 5) deep-cycle capacity, 6) retention of charge, 7) vibration, 8) altitude, 9) overcharge and thermal runaway, 10) induced short circuit, 11) extreme temperature, 12) impact resistance or drop test, 13) nail penetration, 14) BMS safety, and 15) charge and over-discharge. 7

C.5.1.1.1.2. TRL5 Test Procedure

The contractor shall prepare and deliver a detailed test procedure to the COR for the Power Brick Batteries based on the test descriptions outlined in the test plan at C.5.1.1.1.1, in accordance with CDRL A017 within one (1) month after exercise of this option. The COR shall review the test procedure within fifteen (15) days after receipt and provide concurrence or comment. The test procedure shall describe equipment to be used and contain a detailed description of each test and its implementation. The test procedure shall include data sheets. Each data sheet shall have, at a minimum, the following information: 1) test name and brief description, 2) date of test, 3) name of person performing test, 4) equipment used, 5) date of calibration, 6) results data or a brief description of results, and 7) parameters to be measured and the pass or fail criteria against which the test results will be measured.

C.5.1.1.1.3. TRL5 Testing

Within thirty (30) days of receipt of written COR concurrence of the test plan and the test procedure, the contractor shall perform all of the tests defined in the test plan prepared under task C.5.1.1.1.1 and test procedures prepared under task C.5.1.1.1.2. As part of this testing, the contractor shall produce and deliver digital video, thermal imaging, and photographs in accordance with C.5.1.3.7.

C.5.1.2. Meetings**C.5.1.2.1. Start of Work Meeting**

The contractor shall plan and conduct a start of work meeting, via telephone (or in person if mutually agreed between the contractor and the COR), with the COR no later than one (1) month after exercise of this option. At the meeting, the contractor shall explain its intended approach for accomplishing the scope of work for this option. The contractor shall deliver to the government a meeting agenda at least three (3) days prior to the start of work meeting, in accordance with CDRL A001, Conference Agenda. In addition, the contractor shall record all meeting minutes and action items, and shall deliver the meeting minutes and a meeting report within ten (10) days after the start of work meeting, in accordance with CDRL A002, Conference Minutes and CDRL A003, Conference Report, respectively. The contractor shall also deliver any presentation materials used in the start of work meeting to the government within three (3) days after the start of work meeting in accordance with CDRL A005, Presentation Material.

C.5.1.2.2. Quarterly Review Meetings

The meeting requirements described in C.3.2, Quarterly Review Meetings, shall include the effort described in C.5.1.

C.5.1.3. Deliverables***C.5.1.3.1. Scientific and Technical Reports/Final Technical Report**

The contractor shall prepare and submit a draft addendum to the final report in C.4.2 NLT 30 March 2015 in accordance with CDRL A007, Scientific and Technical Reports. The COR shall review the draft addendum to the final 8 report, make comment and request revision within thirty (30) days after receipt. The contractor shall submit the final version of the addendum to the final report within thirty (30) days after receipt of the COR's comments. The final report replaces the Status Report detailed in CDRL A010 that would be due in the relevant period. The report shall summarize the work completed; significant accomplishments, problems or delays; studies completed during the contract performance period; and test results and their analysis and impact on the program.

***C.5.1.3.2. Scientific and Technical Reports Summary**

The contractor shall prepare and deliver a scientific and technical report summary summarizing the scientific and technical report addendum in C.5.1.3.1 in accordance with A014 NLT 30 May 2015.

C.5.1.3.3. Contract Work Breakdown Structure

The contractor shall prepare and deliver a contract work breakdown structure for this option according to CDRL A013, Contract Work Breakdown Structure within one (1) month after exercise of this option.

C.5.1.3.4. Status Reports

The contractor shall prepare and submit status reports once every 2 months in accordance with CDRL A010, Status Reports. The first report shall be delivered to the COR approximately sixty (60) days after exercise of this option.

C.5.1.3.5. TRL 5 Battery Deliverables

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Any batteries built for TRL 5 testing under task C.5.1.1 that are suitable for further government performance testing (characterization by charge and discharge) after TRL 5 testing is conducted by the contractor (cells that have not been destroyed or damaged) under C.5.1.1.1.3 shall be delivered to TARDEC for testing at the conclusion of TRL 5 testing, or within ten (10) months after exercise of this option, whichever is sooner.

C.5.1.3.6. TRL 5 Testing Deliverables

*C.5.1.3.6.1. TRL 5 Testing Final Report

The contractor shall submit a technical report pertaining to all TRL 5 testing, described in C.5.1.1.1 in accordance with CDRL A006, Technical Report Study/Services. This report shall be submitted NLT 30 May 2015.

C.5.1.3.6.2. TRL 5 Test Plan

The contractor shall submit a TRL 5 Test Plan described in C.5.1.1.1.1, in accordance with CDRL A016. This test plan shall be submitted within one (1) month after exercise of this option. 9

C.5.1.3.6.3. TRL 5 Test Procedure

The contractor shall submit a TRL 5 Test Procedure described in C.5.1.1.1.2, in accordance with CDRL A017. This test procedure shall be submitted within one (1) month after exercise of this option.

C.5.1.3.7. Digital Video, Thermal Imaging, and Photograph Deliverables

The contractor shall produce digital video and thermal imaging as required by and in accordance with CDRL A008 for the TRL 5 testing under C.5.1.1.1. The contractor shall also produce digital photographs for all testing under C.5.1.1.1 as required by and in accordance with CDRL A018. The contractor shall deliver the digital video, thermal imaging video, and digital photographs produced during TRL 5 testing under C.5.1.1.1 within eight (8) months after exercise of this option.

C.5.2. Option 2: TRL 6 Testing

C.5.2.1. Tasks

The contractor shall build an additional ten (10) Power Brick Batteries, meeting the requirements of C.1 and the design developed in C.2, and shall test these Power Brick Batteries according to C.5.2.1.1 to determine whether the batteries meet a maturity of technology readiness level (TRL) 6.

C.5.2.1.1. TRL 6 Testing

C.5.2.1.1.1. TRL 6 Test Plan

The contractor shall prepare and deliver a detailed test plan to the COR outlining the tests to be conducted on the Power Brick Batteries within one (1) month after the exercise of this option in accordance with CDRL A016. The COR shall review the test plan within fifteen (15) days after receipt and provide concurrence or comment. At a minimum, the plan shall include the following tests: 1) bulge resistance, 2) electrical resistance compatibility, 3) extreme temperature (hot and cold), 4) high temperature cycling, 5) vibration, 6) altitude, 7) full charge capacity, 8) low temperature capacity, 9) deep cycle capacity, 10) retention of charge, 11) life cycle capacity, 12) overcharge and thermal runaway, 13) short circuit, 14) charge and over discharge, and 15) water fording. The contractor shall conduct these tests, as appropriate, in a metal mock-up box.

C.5.2.1.1.2. TRL 6 Test Procedure

The contractor shall prepare and deliver a detailed test procedure to the COR for the Power Brick Batteries based on the test descriptions outlined in the test plan in accordance with CDRL A017 within one (1) month after exercise of this option. The COR shall review the test procedure within fifteen (15) days after receipt and provide concurrence or comment. The test procedure shall describe equipment to be used and contain a detailed description of each test and its implementation. The test procedure shall include data sheets. Each data sheet shall have, at a minimum, the following information: 1) test name and brief description, 2) date of test, 3) name of person performing test, 4) equipment used, 5) date of calibration, 6) results data or a brief description of results, and 7) parameters to be measured and the pass or fail criteria against which the test results will be measured 10

C.5.2.1.1.3. TRL 6 Testing

Within thirty (30) days of receipt of written COR concurrence of the test plan and the test procedure, the contractor shall perform all of the tests defined in the test plan prepared under task C.5.2.1.1.1 and test procedures prepared under task C.5.2.1.1.2. As part of this testing, the contractor shall produce and deliver digital video, thermal imaging, and photographs in accordance with C.5.2.3.7.

C.5.2.2. Meetings

C.5.2.2.1. Start of Work Meeting

The contractor shall plan and conduct a start of work meeting, via telephone (or in person if mutually agreed between the contractor and the COR), with the COR no later than one (1) month after exercise of this option. At the meeting, the contractor shall explain its intended approach for accomplishing the scope of work for this option. The contractor shall deliver to the government a meeting agenda at least three (3) days prior to the start of work meeting, in accordance with CDRL A001, Conference Agenda. In addition, the contractor shall record all meeting minutes and action items, and shall deliver the meeting minutes and a meeting report within ten (10) days after

| | | |
|---------------------------|--|---------------------|
| CONTINUATION SHEET | Reference No. of Document Being Continued | Page 9 of 12 |
| | PIIN/SIIN W56HZV-09-D-0153/0003 MOD/AMD 03 | |

Name of Offeror or Contractor: SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

the start of work meeting, in accordance with CDRL A002, Conference Minutes and CDRL A003, Conference Report, respectively. The contractor shall also deliver any presentation materials used in the start of work meeting to the government within three (3) days after the start of work meeting in accordance with CDRL A005, Presentation Material.

C.5.2.2.2. Quarterly Review Meetings

The meeting requirements described in C.3.2, Quarterly Review Meetings, shall include the effort described in C.5.2.

C.5.2.3. Deliverables

C.5.2.3.1. Scientific and Technical Reports/Final Technical Report

The contractor shall prepare and submit a draft addendum to the final report in C.4.2 within ten (10) months after exercise of this option in accordance with CDRL A007, Scientific and Technical Reports. The COR shall review the draft addendum to the final report, make comment and request revision within thirty (30) days after receipt. The contractor shall submit the final version of the addendum to the final report within thirty (30) days after receipt of the COR's comments. The final report replaces the Status Report detailed in CDRL A010 that would be due in the relevant period.

The report shall summarize the work completed; significant accomplishments, problems or delays; studies completed during the contract performance period; and test results and their analysis and impact on the program.

C.5.2.3.2. Scientific and Technical Reports Summary

The contractor shall prepare and deliver a scientific and technical report summary summarizing the scientific and technical report addendum in C.5.2.3.1 in accordance with A014 within twelve (12) months after exercise of this option. 11

C.5.2.3.3. Contract Work Breakdown Structure

The contractor shall prepare and deliver a contract work breakdown structure for this option according to CDRL A013, Contract Work Breakdown Structure within one (1) month after exercise of this option.

C.5.2.3.4. Status Reports

The contractor shall prepare and submit status reports once every 2 months in accordance with CDRL A010, Status Reports. The first report shall be delivered to the COR approximately sixty (60) days after exercise of this option.

C.5.2.3.5. TRL 6 Battery Deliverables

Any batteries built for TRL 6 testing under task C.5.2.1 that are suitable for further government performance testing (characterization by charge and discharge) after TRL 6 testing is conducted by the contractor (cells that have not been destroyed or damaged) under C.5.2.1.1.3 shall be delivered to TARDEC for testing at the conclusion of TRL 6 testing, or within ten (10) months after exercise of this option, whichever is sooner.

C.5.2.3.6. TRL 6 Testing Deliverables

C.5.2.3.6.1. TRL 6 Testing Final Report

The contractor shall submit a final technical report pertaining to all TRL 6 testing, described in C.5.2.1.1 in accordance with CDRL A006, Technical Report Study/Services. This report shall be submitted twelve (12) months after exercise of this option.

C.5.2.3.6.2. TRL 6 Test Plan

The contractor shall submit a TRL 6 Test Plan described in C.5.2.1.1.1, in accordance with CDRL A016. This test plan shall be submitted within one (1) month after exercise of this option.

C.5.2.3.6.3. TRL 6 Test Procedure

The contractor shall submit a TRL 6 Test Procedure described in C.5.2.1.1.2, in accordance with CDRL A017. This test procedure shall be submitted within one (1) month after exercise of this option.

C.5.2.3.7. Digital Video, Thermal Imaging, and Photograph Deliverables

The contractor shall produce digital video and thermal imaging as required by and in accordance with CDRL A008 for the TRL 6 testing under C.5.2.1.1. The contractor shall also produce digital photographs for all testing under C.5.2.1.1 as required by and in accordance with CDRL A018. The contractor shall deliver the digital video, thermal imaging video, and digital photographs produced during TRL 6 testing under C.5.2.1.1 within twelve (12) months after exercise of this option.

C.5.3. Option 3: Additional Labor Hours for Engineering Services for Power Brick Development

The contractor shall provide up to an additional 2,800 labor hours to complete the scope described in paragraphs C.2 through C.4.

C.5.4. Option 4: Additional Labor Hours for Testing Services for Evaluation

The contractor shall provide up to an additional 2,743 labor hours to complete the scope described in paragraphs C.5.1 and C.5.2.

*Revised by Modification 03

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 10 of 12****PIIN/SIIN** W56HZV-09-D-0153/0003**MOD/AMD** 03

Name of Offeror or Contractor: SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

*** END OF NARRATIVE C0001 ***

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 11 of 12**

PIIN/SIIN W56HZV-09-D-0153/0003

MOD/AMD 03

Name of Offeror or Contractor: SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

SECTION F - DELIVERIES OR PERFORMANCE

*F.1 Period of Performance

The period of performance for CLIN 0001 and all deliverables under CLIN 0001 will be completed by 30 May 2014.

*F.1.1
All effort required under the base contract, including delivery of the final technical report, shall be completed no later than 30 May 2014. Option 1 shall be completed by 30 May 2015. Option 3 shall be completed by 29 May 2014.

*Revised by Modification 03

*** END OF NARRATIVE F0001 ***

CONTINUATION SHEET

Reference No. of Document Being Continued

Page 12 of 12

PIIN/SIIN W56HZV-09-D-0153/0003

MOD/AMD 03

Name of Offeror or Contractor: SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

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 | 19-FEB-2014 | | |

CDRLs

CONTRACT DATA REQUIREMENTS 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 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
- B. EXHIBIT:
- C. CATEGORY:
- D. SYSTEM/ITEM:
- E. CONTRACT/PR NO.:
- F. CONTRACTOR:

- 1. DATA ITEM NO.: A001
- 2. TITLE OF DATA ITEM: Conference Agenda
- 3. SUBTITLE:
- 4. AUTHORITY (Dt of Acq Document No.): DI-ADMIN-81249A
- 5. CONTRACT REFERENCE: C.3.1, C.3.2, C.5.1.2.1, C.5.2.2.1
- 6. REQUIRING OFFICE: RDTA-RS
- 7. DD250 REQ: LT
- 8. APP CODE:
- 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

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Laurence Toomey, COR, Email:laurence.m.toomey2.civ@mail.mil
Lisa Koski, Contract Specialist, Email:lisa.m.koski.civ@mail.mil
Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

- 15. TOTAL: One copy to each addressee listed in block 14.

- 16. REMARKS:

- a. The contractor shall deliver to the government a meeting agenda at least three (3) days prior to any start of work meeting or any quarterly review meeting required by the base effort or any option.
- b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-ADMIN-81249A, "Conference Agenda" The COR is responsible for accepting or rejecting the Conference Agenda.

- 17. PRICE GROUP:
- 18. ESTIMATED TOTAL PRICE:

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

1. DATA ITEM NO.: A002
2. TITLE OF DATA ITEM: Conference Minutes
3. SUBTITLE:
4. AUTHORITY (Dt of Acq Document No.): DI-ADMIN-81250A
5. CONTRACT REFERENCE: C.3.1, C.3.2, C.5.1.2.1, C.5.2.2.1
6. REQUIRING OFFICE: RDTA-RS
7. DD250 REQ: LT
8. APP CODE:
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
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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

- a. The contractor shall record all meeting minutes and action items, and shall deliver the meeting minutes within ten (10) days after any start of work meeting or quarterly meeting required under the base scope or options.
- b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-ADMIN-81250A, "Conference Minutes" The COR is responsible for accepting or rejecting the Conference Minutes.

17. PRICE GROUP:
18. ESTIMATED TOTAL PRICE:

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

1. DATA ITEM NO.: A003
2. TITLE OF DATA ITEM: Conference Report
3. SUBTITLE:
4. AUTHORITY (Dt of Acq Document No.): DI-ADMIN-81308A
5. CONTRACT REFERENCE: C.3.1, C.3.2, C.5.1.2.1, C.5.2.2.1
6. REQUIRING OFFICE: RDTA-RS
7. DD250 REQ: LT
8. APP CODE:
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
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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

- a. The contractor shall prepare and deliver a meeting report within ten (10) days after any start of work meeting or quarterly meeting required under the base scope or options.
- b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-ADMIN-81308A, "Conference Report" The COR is responsible for accepting or rejecting the Conference Report.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

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

- 1. DATA ITEM NO.: A004
- 2. TITLE OF DATA ITEM: Reserved
- 3. SUBTITLE:
- 4. AUTHORITY (Dt of Acq Document No.):
- 5. CONTRACT REFERENCE:
- 6. REQUIRING OFFICE:
- 7. DD250 REQ:
- 8. APP CODE:
- 9. DIST. STATEMENT REQUIRED:
- 10. FREQUENCY:
- 11. AS OF DATE:
- 12. DATE OF FIRST SUB:
- 13. DATE OF SUBS.SUB:

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16. REMARKS:

17. PRICE GROUP:

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

- 1. DATA ITEM NO.: A005
- 2. TITLE OF DATA ITEM: Presentation Material
- 3. SUBTITLE:
- 4. AUTHORITY (Dt of Acq Document No.): DI-ADMIN-81373
- 5. CONTRACT REFERENCE: C.3.1, C.3.2, C.5.1.2.1, C.5.2.2.1

- 6. REQUIRING OFFICE: RDTA-RS
- 7. DD250 REQ: LT
- 8. APP CODE:
- 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
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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

a. The contractor shall deliver any presentation materials used any start of work or quarterly review meeting required under the base effort or options to the government within three (3) days after the meeting.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-ADMIN-81373, "Presentation Material" The COR is responsible for accepting or rejecting the Presentation Material.

- 17. PRICE GROUP:
- 18. ESTIMATED TOTAL PRICE:

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

- 1. DATA ITEM NO.: A006
- 2. TITLE OF DATA ITEM: Technical Report-Study/Services
- 3. SUBTITLE:
- 4. AUTHORITY (Dt of Acq Document No.): DI-MISC-80508B
- 5. CONTRACT REFERENCE: C.5.1.3.6.1, C.5.2.3.6.1
- 6. REQUIRING OFFICE: RDTA-RS
- 7. DD250 REQ: LT
- 8. APP CODE:
- 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
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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

a. The contractor shall prepare and deliver final technical reports on testing activities within twelve (12) months after contract award or exercise of option.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-MISC-80508B, "Technical Report-Study/Services" The COR is responsible for accepting or rejecting the Technical Report-Study/Services.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO

B. EXHIBIT:

C. CATEGORY:

D. SYSTEM/ITEM:

E. CONTRACT/PR NO.:

F. CONTRACTOR:

1. DATA ITEM NO.: A007

2. TITLE OF DATA ITEM: Scientific & Technical Reports

3. SUBTITLE: Final Report

4. AUTHORITY (Dt of Acq Document No.): DI-MISC-80711A

5. CONTRACT REFERENCE: C.4.2, C.5.1.3.1, C.5.2.3.1

6. REQUIRING OFFICE: RDTA-RS

7. DD250 REQ: LT

8. APP CODE:

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

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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

*a. Base Effort: Submit the draft report NLT 30 March 2014. The contractor shall submit the final report NLT 30 May 2014.

b. Options: Submit draft addendum to the final report within ten (10) months after option exercise. The COR will review and comment within thirty (30) days after receipt. The contractor shall submit the final report within thirty (30) days thereafter.

c. The Scientific & Technical Reports replace the Status Reports detailed in CDRL A010 that would be due in the relevant period. The reports shall summarize the work completed and significant accomplishments, problems or delays. The reports shall include the studies completed during the contract performance period, as well as test results and their analysis and impact on the program.

d. Complete the Scientific & Technical 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.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO

B. EXHIBIT:

C. CATEGORY:

D. SYSTEM/ITEM:

E. CONTRACT/PR NO.:

F. CONTRACTOR:

1. DATA ITEM NO.: A008

2. TITLE OF DATA ITEM: Technical Videotape Presentation
3. SUBTITLE: Digital & Thermal Imaging Video
4. AUTHORITY (Dt of Acq Document No.): DI-MISC-81275
5. CONTRACT REFERENCE: C.5.1.3.7, C.5.2.3.7
6. REQUIRING OFFICE: RDTA-RS
7. DD250 REQ: LT
8. APP CODE:
9. DIST. STATEMENT REQUIRED: B
10. FREQUENCY: See Block 16
11. AS OF DATE: See Block 16
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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

a. The contractor shall provide digital video recordings (minimum frame rate: 1000 frames per second for Nail Penetration test, 60 frames per second for all other tests listed) and thermal imaging digital video recordings (minimum frame rate: 30 frames per second for all tests listed) of the following TRL5 tests: Overcharge & Thermal Runaway, Induced Short Circuit, Impact Resistance or Drop Test, Nail Penetration, Charge & Overdischarge; the following Developmental test: Mechanical Integrity (impact and submersion); and the following Parallel and Series System tests: Bulge Resistance, Overcharge & Thermal Runaway, Short Circuit, Charge & Overdischarge, and water fording. The contractor shall submit the digital video electronically. The digital and thermal imaging video shall be delivered within twelve (12) months of the exercise of any option where digital and thermal imaging video is required.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-MISC-81275, "Technical Video Presentation" The COR is responsible for accepting or rejecting the Technical Video Presentation.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

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

1. DATA ITEM NO.: A009
2. TITLE OF DATA ITEM: Reserved
3. SUBTITLE:
4. AUTHORITY (Dt of Acq Document No.):
5. CONTRACT REFERENCE:
6. REQUIRING OFFICE:
7. DD250 REQ:
8. APP CODE:
9. DIST. STATEMENT REQUIRED:
10. FREQUENCY:
11. AS OF DATE:
12. DATE OF FIRST SUB:
13. DATE OF SUBS.SUB:

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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:
17. PRICE GROUP:
18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO
B. EXHIBIT:
C. CATEGORY:
D. SYSTEM/ITEM:
E. CONTRACT/PR NO.:
F. CONTRACTOR:

1. DATA ITEM NO.: A010
2. TITLE OF DATA ITEM: Status Report
3. SUBTITLE:
4. AUTHORITY (Dt of Acq Document No.): DI-MGMT-80368A
5. CONTRACT REFERENCE: C.4.4, C.5.1.3.4, C.5.2.3.4
6. REQUIRING OFFICE: RDTA-RS
7. DD250 REQ: LT
8. APP CODE:
9. DIST. STATEMENT REQUIRED: B
10. FREQUENCY: See Block 16
11. AS OF DATE: See Block 16
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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

a. The contractor shall provide bi-monthly Status Reports. The reports shall summarize work completed to date on the contract with specific reference to the contract tasks completed, tasks not completed, status of on-going studies, studies completed during the reporting time period and any significant accomplishments, problems or delays. The reports will also include total costs incurred to date, with specific reference to the costs incurred since the last status report. Further, the reports shall include any options that have been exercised by the Government.

The first report is due approximately sixty (60) days after contract award. Any options exercised shall be incorporated into the subsequent bi-monthly reports.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-MGMT-80368A, "Status Report" The COR is responsible for accepting or rejecting the Status Report.

17. PRICE GROUP:
18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO
B. EXHIBIT:
C. CATEGORY:

D. SYSTEM/ITEM:
E. CONTRACT/PR NO.:
F. CONTRACTOR:

1. DATA ITEM NO.: A011
2. TITLE OF DATA ITEM: Reserved
3. SUBTITLE:
4. AUTHORITY (Dt of Acq Document No.):
5. CONTRACT REFERENCE:
6. REQUIRING OFFICE:
7. DD250 REQ:
8. APP CODE:
9. DIST. STATEMENT REQUIRED:
10. FREQUENCY:
11. AS OF DATE:
12. DATE OF FIRST SUB:
13. DATE OF SUBS.SUB:

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16. REMARKS:
17. PRICE GROUP:
18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO
B. EXHIBIT:
C. CATEGORY:
D. SYSTEM/ITEM:
E. CONTRACT/PR NO.:
F. CONTRACTOR:

1. DATA ITEM NO.: A012
2. TITLE OF DATA ITEM: Product Drawings Models and Associate Lists
3. SUBTITLE:
4. AUTHORITY (Dt of Acq Document No.): DI-SESS-81000C
5. CONTRACT REFERENCE: C.4.11
6. REQUIRING OFFICE: RDTA-RS
7. DD250 REQ: LT
8. APP CODE:
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: SUBMIT REPORTS ELECTRONICALLY TO THE EMAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Laurence Toomey, COR, Email:laurence.m.toomey2.civ.mail.mil
Lisa Koski, Contract Specialist, Email:lisa.m.koski.civ@mail.mil
Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

a. The contractor shall provide product drawings and electrical schematics for the any batteries developed under the base scope or options prior to the delivery of any batteries. The contractor shall also provide an equation, table, or graph dictating all current sensors output voltages when current is applied over the complete current range of the Power Brick Battery within eight (8) months of project award.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-SESS-81000C, "Product Drawings/Models and Associated Lists" The COR is responsible for accepting or rejecting the drawings, models, and lists.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO

B. EXHIBIT:

C. CATEGORY:

D. SYSTEM/ITEM:

E. CONTRACT/PR NO.:

F. CONTRACTOR:

1. DATA ITEM NO.: A013

2. TITLE OF DATA ITEM: Contract Work Breakdown Structure

3. SUBTITLE:

4. AUTHORITY (Dt of Acq Document No.): DI-MGMT-81334D

5. CONTRACT REFERENCE: C.4.1, C.5.1.3.3, C.5.2.3.3

6. REQUIRING OFFICE: RDTA-RS

7. DD250 REQ: LT

8. APP CODE:

9. DIST. STATEMENT REQUIRED: D

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

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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

a. The contractor shall provide a contract work breakdown structure for the base effort and options where it is listed as a required deliverable within one (1) month after contract award or exercise of option.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-MGMT-81334D, "Contract Work Breakdown Structure" The COR is responsible for accepting or rejecting the contract work breakdown structure.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO

B. EXHIBIT:

C. CATEGORY:

D. SYSTEM/ITEM:

E. CONTRACT/PR NO.:

F. CONTRACTOR:

1. DATA ITEM NO.: A014

2. TITLE OF DATA ITEM: Scientific and Technical Reports Summary

3. SUBTITLE:

4. AUTHORITY (Dt of Acq Document No.): DI-MISC-80048

- 5. CONTRACT REFERENCE: C.4.3, C.5.1.3.2, C.5.2.3.2
- 6. REQUIRING OFFICE: RDTA-RS
- 7. DD250 REQ: 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

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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

a. The contractor shall prepare and deliver a scientific and technical report summary summarizing the scientific and technical report in the base effort and scientific and technical reports addendum in the each option within twelve (12) months after contract award or exercise of option.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-MISC-80048, "Scientific and Technical Reports Summary" The COR is responsible for accepting or rejecting the scientific and technical reports summary.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

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

- 1. DATA ITEM NO.: A015
- 2. TITLE OF DATA ITEM: Operation and Maintenance Instructions for R&D Equipment
- 3. SUBTITLE:
- 4. AUTHORITY (Dt of Acq Document No.): DI-MISC-81414
- 5. CONTRACT REFERENCE: C.4.8
- 6. REQUIRING OFFICE: RDTA-RS
- 7. DD250 REQ: LT
- 8. APP CODE:
- 9. DIST. STATEMENT REQUIRED: D
- 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

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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

- a. The contractor shall deliver a document that provides government personnel necessary operating, diagnostic, and repair procedures for using and maintaining the Power Brick Batteries developed under the contract options. This document shall be updated and delivered to TARDEC prior to the delivery of any batteries.
- b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-MISC-81414, "Operation and Maintenance Instructions for Research and Development (R&D) Equipment" The COR is responsible for accepting or rejecting the instructions.

- 17. PRICE GROUP:
- 18. ESTIMATED TOTAL PRICE:

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

- 1. DATA ITEM NO.: A016
- 2. TITLE OF DATA ITEM: Test Plan
- 3. SUBTITLE:
- 4. AUTHORITY (Dt of Acq Document No.): DI-NDTI-80566A
- 5. CONTRACT REFERENCE: C.5.1.3.6.2, C.5.2.1.1.1
- 6. REQUIRING OFFICE: RDTA-RS
- 7. DD250 REQ: LT
- 8. APP CODE:
- 9. DIST. STATEMENT REQUIRED: D
- 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

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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

- 15. TOTAL: One copy to each addressee listed in block 14.

- 16. REMARKS:

- a. All test plans shall be submitted to the COR for review and approval by the COR. The COR will review the test plan within fifteen (15) days after receipt and provide concurrence or comment. Submit the Test Plan within one (1) month after option exercise.
- b. Technology Readiness Level Five (TRL5) Test Plans shall include: 1) rate characterization, 2) pulse power, 3) stand, 4) life-cycle capacity, 5) deep-cycle capacity, 6) retention of charge, 7) vibration, 8) altitude, 9) overcharge and thermal runaway, 10) induced short circuit, 11) extreme temperature, 12) impact resistance or drop test, 13) nail penetration, 14) BMS safety, and 15) charge and over-discharge.
- c. TRL 6 Test Plans shall include the following tests: 1) bulge resistance, 2) electrical resistance compatibility, 3) extreme temperature (hot and cold), 4) high temperature cycling, 5) vibration, 6) altitude, 7) full charge capacity, 8) low temperature capacity, 9) deep cycle capacity, 10) retention of charge, 11) life cycle capacity, 12) overcharge and thermal runaway, 13) short circuit, 14) charge and over discharge, and 15) water fording.
- d. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-NDTI-80566A, "Test Plan" The COR is responsible for accepting or rejecting the test plans.

- 17. PRICE GROUP:
- 18. ESTIMATED TOTAL PRICE:

- A. CONTRACT LINE ITEM NO
- B. EXHIBIT:
- C. CATEGORY:

D. SYSTEM/ITEM:
E. CONTRACT/PR NO.:
F. CONTRACTOR:

1. DATA ITEM NO.: A017
2. TITLE OF DATA ITEM: Test Procedure
3. SUBTITLE:
4. AUTHORITY (Dt of Acq Document No.): DI-NDTI-80603A
5. CONTRACT REFERENCE: C.5.1.1.1.2, C.5.2.1.1.2
6. REQUIRING OFFICE: RDTA-RS
7. DD250 REQ: LT
8. APP CODE:
9. DIST. STATEMENT REQUIRED: D
10. FREQUENCY: See Block 16
11. AS OF DATE: See Block 16
12. DATE OF FIRST SUB: See Block 16
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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

- a. Submit the Test Procedure within one (1) month after option exercise.
- b. Test Procedures shall be developed to carry out the tests detailed in the Test Plans prepared IAW CDRL A016. The Test Procedures shall describe equipment to be used and contain a detailed description of each test and its implementation. The Test Procedures shall include data sheets. Each data sheet shall have, at a minimum, the following information: 1) test name and brief description, 2) date of test, 3) name of person performing test, 4) equipment used, 5) date of calibration, 6) results data or a brief description of results, and 7) parameters to be measured and the pass or fail criteria against which the test results will be measured. All Test Procedures are to be reviewed and approved by the COR. The COR will review the Test Procedures within fifteen (15) days after receipt and provide concurrence or comment.
- c. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-NDTI-80603A, "Test Procedure" The COR is responsible for accepting or rejecting the test procedures.

17. PRICE GROUP:
18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO
B. EXHIBIT:
C. CATEGORY:
D. SYSTEM/ITEM:
E. CONTRACT/PR NO.:
F. CONTRACTOR:

1. DATA ITEM NO.: A018
2. TITLE OF DATA ITEM: Photographic Requirements
3. SUBTITLE:
4. AUTHORITY (Dt of Acq Document No.): DI-SAFT-81126
5. CONTRACT REFERENCE: C.5.1.3.7, C.5.2.3.7
6. REQUIRING OFFICE: RDTA-RS
7. DD250 REQ: LT
8. APP CODE:
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

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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

a. The contractor shall provide digital photographs (minimum 2.0 megapixel camera) for all tests performed IAW DID DI-SAFT-81126. The contractor shall submit the digital photographs electronically. All digital photographs should be delivered within twelve (12) months after contract award or exercise of an option where digital photographs are a required deliverable.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-SAFT-81126, "Photographic Requirements" The COR is responsible for accepting or rejecting the photographs.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO

B. EXHIBIT:

C. CATEGORY:

D. SYSTEM/ITEM:

E. CONTRACT/PR NO.:

F. CONTRACTOR:

1. DATA ITEM NO.: A019

2. TITLE OF DATA ITEM: Safe Operations Document

3. SUBTITLE:

4. AUTHORITY (Dt of Acq Document No.): DI-SAFT-80102B

5. CONTRACT REFERENCE: C.4.7

6. REQUIRING OFFICE: RDTA-RS

7. DD250 REQ: LT

8. APP CODE:

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

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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

a. The contractor shall provide a Safe Operations Document that details the requirements necessary for the safe operation and testing of all batteries delivered under this contract. This document shall include Material Safety Data Sheets (MSDSs) and shall include information on cycling parameters and methods and shall be updated and delivered to TARDEC prior to the delivery of any batteries.

b. Complete the reports IAW DID DI-SAFT-80102, "Safety Assessment Report." The COR is responsible for accepting or rejecting the Safe Operations Document.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

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

- 1. DATA ITEM NO.: A020
- 2. TITLE OF DATA ITEM: BMS Interface Control Document
- 3. SUBTITLE:
- 4. AUTHORITY (Dt of Acq Document No.): DI-CMAN-81248A
- 5. CONTRACT REFERENCE: C.4.10
- 6. REQUIRING OFFICE: RDTA-RS
- 7. DD250 REQ: LT
- 8. APP CODE:
- 9. DIST. STATEMENT REQUIRED: D
- 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

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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

a. The contractor shall provide a BMS ICD for the Power Brick Batteries within ten (10) months after the exercise of any option requiring a BMS ICD as a deliverable.

b. Complete the reports IAW DID DI-CMAN-81248A, "Interface Control Document" The COR is responsible for accepting or rejecting the BMS interface control document.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

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

- 1. DATA ITEM NO.: A021
- 2. TITLE OF DATA ITEM: BMS Interface Software & Documentation
- 3. SUBTITLE:
- 4. AUTHORITY (Dt of Acq Document No.): DI-IPSC-81488
- 5. CONTRACT REFERENCE:
- 6. REQUIRING OFFICE: RDTA-RS
- 7. DD250 REQ: LT
- 8. APP CODE:
- 9. DIST. STATEMENT REQUIRED: D
- 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

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Miriam Harris, ACO, Email: Miriam.Harris@dcma.mil

15. TOTAL: One copy to each addressee listed in block 14.

16. REMARKS:

a. The contractor shall provide BMS Interface Software & Documentation for the Power Brick Batteries prior to the delivery of any batteries.

b. Complete the reports IAW DID DI-IPSC-81488, "Computer Software Product." The COR is responsible for accepting or rejecting the BMS Interface Software.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

The following applies to all Contract Data Requirements, CDRL A001 CDRL A021:

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

(1) Files readable using these Microsoft* 97 Office Products (TACOM can currently read OFFICE 97* and lower): Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print image is not acceptable. Executable files, other than self-extracting compressed files, are unacceptable.

(2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

(3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. 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 email copy-furnished to amsta-idg@tacom.army.mil, to obtain a decision as to the format's acceptability. This e-mail must be received by the COR no later than ten (10) calendar days before the draft report's due date. All alternate methods must be at no cost to the Government.

NOTES: (a) The above formats may be submitted in compressed form using self-extracting files.

(b) Files may be read-only, password protected.

d. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip*-disk, 3 1/2 inch disk, or 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. Any compressed files must be self-extracting, and you must provide appropriate instructions. 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) 100 or 250 MEGABYTE ZIP*-DISK, 3 1/2 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label all submitted disks with the Contract number, the Contractor's name, address and a contact's phone number.

NOTE: Please select only one medium by which to transmit each report. For instance, do not submit a report via e-mail and 100 megabyte Zip*-disk. * Registered Trademark

*Revised by modification 03