

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. Contract ID Code **Page 1 Of 22**
Fixed Price Level of Effort

2. Amendment/Modification No. **P00001** 3. Effective Date **2013DEC26** 4. Requisition/Purchase Req No. **SEE SCHEDULE** 5. Project No. (If applicable)

6. Issued By **Code W56HZV** 7. Administered By (If other than Item 6) **Code S0302A**
 U.S. ARMY CONTRACTING COMMAND
 RORY THELEN
 WARREN, MICHIGAN 48397-5000
 HTTP://CONTRACTING.TACOM.ARMY.MIL
 EMAIL: RORY.G.THELEN@US.ARMY.MIL
 DCMA SOLDIER SYSTEMS AND CAP -
 PHOENIX
 TWO RENAISSANCE SQUARE
 40 NORTH CENTRAL AVE, SUITE 400
 PHOENIX AZ 85004-4424

8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)
 HONEYWELL INTERNATIONAL INC.
 AEROSPACE - ALBUQUERQUE
 9201 SAN MATEO BLVD. NE
 ALBUQUERQUE, NM 87113-2227

9A. Amendment Of Solicitation No.

9B. Dated (See Item 11)

10A. Modification Of Contract/Order No.
 W56HZV-13-C-0024

10B. Dated (See Item 13)
 2013APR08

Code 07187 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)
 SEE SECTION G (IF APPLICABLE)

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

A. This Change Order is Issued Pursuant To: _____ The Changes Set Forth In Item 14 Are Made In _____
 The Contract/Order No. In Item 10A.

B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).

C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of: FAR 52.243-1

D. Other (Specify type of modification and authority)

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

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

SEE SECOND PAGE FOR DESCRIPTION

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

15A. Name And Title Of Signer (Type or print) 16A. Name And Title Of Contracting Officer (Type or print)
 JOHN M. HOPFNER
 JOHN.HOPFNER@US.ARMY.MIL (586)282-7359

15B. Contractor/Offendor 15C. Date Signed 16B. United States Of America 16C. Date Signed
 _____ /SIGNED/ _____ 2013DEC26
 (Signature of person authorized to sign) (Signature of Contracting Officer)

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 2 of 22**

PIIN/SIIN W56HZV-13-C-0024

MOD/AMD P00001

Name of Offeror or Contractor: HONEYWELL INTERNATIONAL INC.

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: RORY THELEN
Buyer Office Symbol/Telephone Number: CCTA-ASG-B/(586)282-9753
Type of Contract: Fixed Price Level of Effort
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
Contract Expiration Date: 2014JUL08

*** End of Narrative A0000 ***

Modification P00001

PREVIOUS NEGOTIATED CONTRACT VALUE:	\$950,276.00
NEGOTIATED VALUE OF THIS ACTION:	-\$1,772.39
TOTAL NEGOTIATED CONTRACT VALUE:	\$948,503.61
PREVIOUS OBLIGATED AMOUNT:	\$950,276.00
OBLIGATED AMOUNT THIS ACTION:	-\$1,772.39
TOTAL OBLIGATED CONTRACT AMOUNT:	\$948,503.61

1. This is a bilateral Modification. No further funds will be obligated as a result of this Modification P00001.
2. The purposes of this Modification P00001 are to realign existing funds obligated on the contract by reducing the value of CLINs 0003AA, 0004AA, and 0005AA and moving all but \$1,772.39 of those funds to other CLINs on the contract. This modification updates the statement of work, extends performance completion dates, inserts a milestone payment plan, and makes other administrative changes as listed below:
 - i. Change the total dollar amount on CLIN 0001AA, "Honeywell Labor," from \$156,919 to \$179,660.69.
 - ii. Add the following additional labor categories to CLIN 0001AA, "Honeywell Labor": BUS003, ENG003, SUP001.
 - iii. Update the labor hours of each labor category in CLIN 0001AA, "Honeywell Labor," to:
 - BUS001: 114 Hours
 - BUS002: 23 Hours
 - BUS003: 18 Hours
 - ENG001: 316 Hours
 - ENG002: 678 Hours
 - ENG003: 29 Hours
 - SUP001: 41 Hours
 - iv. Update the fully burdened hourly labor rate of each labor category to:
 - BUS001: \$150.84
 - BUS002: \$114.13
 - BUS003: \$83.39
 - ENG001: \$171.74
 - ENG002: \$142.85
 - ENG003: \$120.85
 - SUP001: \$90.48
 - v. Update contract completion date on CLIN 0001AA, "Honeywell Labor," from 31 December 2013 to 8 July 2014.
 - vi. Change the total dollar amount on CLIN 0002AA, "Power Secure Labor," from \$240,345.00 to \$294,445.82.
 - vii. Update the number of total allowable labor hours on CLIN 0002AA, "Power Secure Labor," from 1,200 to 1,117.
 - viii. Change the fully burdened labor rate for "Engineer" on CLIN 002AA, "Power Secure Labor," from \$200.29/hr. to \$263.60/hr.
 - ix. Change the contract completion date on CLIN 0002AA, "Power Secure Labor," from 31 December 2013 to 8 July 2014.
 - x. Change the total dollar amount on CLIN 0003AA, "SAIC Labor," from \$75,320.00 to \$0.00.

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MOD/AMD P00001

Name of Offeror or Contractor: HONEYWELL INTERNATIONAL INC.

- xi. Change total dollar amount on CLIN 0004AA, "Material," from \$309,322.00 to \$304,508.74.
- xii. Change the contract completion date on CLIN 0004AA, "Material," from 31 December 2013 to 8 July 2014.
- xiii. Change total dollar amount on CLIN 0005AA, "Travel," from \$168,370.00 to \$166,597.61.
- xiv. Change the contract completion date on CLIN 0005AA, "Travel," from 31 December 2013 to 8 July 2014.
- xv. Create and fund CLIN 0005AB, "Travel," in the amount of \$3,290.75.
- xvi. Insert milestone payment plan in Section B.
- xvii. Insert updated Statement of Work in section C.
- xviii. Insert updated CDRLs in section J.
- xix. Update contract completion date in Section F.1.1 from 31 December 2013 to 8 July 2014.

3. As a result of Modification P00001, the following changes are hereby made to the contract:

SECTION DESCRIPTION

B Increase amount of CLIN 0001AA, "Honeywell Labor," by \$22,741.69 from \$156,919.00 to \$179,660.69.

B Add the following additional labor categories to CLIN 0001AA, "Honeywell Labor,": BUS003, ENG003, SUP001.

B Update the labor hours for each labor category in CLIN 0001AA, "Honeywell Labor," to:

<u>Labor Category</u>	<u>Hours</u>
BUS001	114
BUS002	23
BUS003	18
ENG001	316
ENG002	678
ENG003	29
SUP001	41

B Update the fully burdened hourly labor rate of each labor category in CLIN 0001AA, "Honeywell Labor," to:

<u>Labor Category</u>	<u>Fully Burdened Rates</u>
BUS001	\$150.84
BUS002	\$114.13
BUS003	\$83.39
ENG001	\$171.74
ENG002	\$142.85
ENG003	\$120.85
SUP001	\$90.48

B Update the contract completion date on CLIN 0001AA, "Honeywell Labor," from 31 December 2013 to 8 July 2014.

B Increase the amount of CLIN 0002AA, "Power Secure Labor," by \$54,100.82 from \$240,345.00 to \$294,445.82.

B Update the total allowable number of labor hours on CLIN 0002AA, "Power Secure Labor," from 1,200 hours to 1,117 hours.

B Change the fully burdened labor rate for "Engineer" on CLIN 0002AA, "Power Secure Labor," from \$200.29/hr. to \$263.60/hr.

B Change the contract completion date on CLIN 0002AA, "Power Secure Labor," from 31 December 2013 to 8 July 2014.

B Decrease the total dollar amount on CLIN 0003AA, "SAIC Labor," from \$75,320.00 to \$0.00

B Decrease the amount of funding on CLIN 0004AA, "Material," by \$4,813.26 from \$309,322.00 to \$304,508.74.

B Change the contract completion date on CLIN 0004AA, "Material," from 31 December 2013 to 8 July 2014.

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Name of Offeror or Contractor: HONEYWELL INTERNATIONAL INC.

- B Decrease the amount of funding on CLIN 0005AA, "Travel," by \$1,772.39 from \$168,370.00 to \$166,597.61.
- B Change the contract completion date on CLIN 0005AA, "Travel," from 31 December 2013 to 8 July 2014.
- B Create and fund CLIN 0005AB, "Travel," in the amount of \$3,290.75.
- B Insert Milestone Payment Plan in Section B Narrative.
- C Insert updated Statement of Work in Section C.
- F Change contract completion date in section F.1.1 from 31 December 2013 to 8 July 2014.
- J Insert updated CDRLs in Section J.
- 4. As a result of Modification P00001, the total negotiated value is reduced by \$1,772.39 from \$950,276.00 to \$948,503.61.
- 5. As a result of Modification P00001, the total obligated value is decreased by \$1,772.39 from \$950,276.00 to \$948,503.61.
- 6. Except as specifically provided in this Modification P00001, all other terms and conditions remain unchanged.

*** END OF NARRATIVE A0001 ***

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Reference No. of Document Being Continued
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Name of Offeror or Contractor: HONEYWELL INTERNATIONAL INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT								
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS												
0001	SMART CHARG MICROGRI												
0001AA	<p><u>HONEYWELL LABOR</u></p> <p>SERVICE REQUESTED: SMART CHARG MICROGRI CLIN CONTRACT TYPE: Fixed Price Level of Effort PRON: R322C181R3 PRON AMD: 02 ACRN: AA AMS CD: 63300553D00</p> <p>The purpose of this subCLIN is to fund the labor provided by Honeywell in the amount not to exceed \$179,660.69.</p> <p>Not to exceed 1219 hours.</p> <p>Fixed Price per hour:</p> <p>Business 1 (BUS001): \$150.84/hour. Business 2 (BUS002): \$114.13/hour. Business 3 (BUS003): \$83.39/hour Engineer 1st Grade (ENG001): \$171.74/hour. Engineer 2nd Grade (ENG002): \$142.85/hour. Engineer 3rd Grade (ENG003): \$120.85/hour. Support Staff 1st grade (SUP001): \$90.48/hour.</p> <p>(End of narrative B002)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u></p> <table border="0"> <tr> <td>DLVR SCH</td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u> <u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001 1</td> <td>08-JUL-2014</td> </tr> <tr> <td style="text-align: right;">\$ 179,660.69</td> <td></td> </tr> </table>	DLVR SCH	PERF COMPL	<u>REL CD</u> <u>QUANTITY</u>	<u>DATE</u>	001 1	08-JUL-2014	\$ 179,660.69		1	LO		\$ 179,660.69
DLVR SCH	PERF COMPL												
<u>REL CD</u> <u>QUANTITY</u>	<u>DATE</u>												
001 1	08-JUL-2014												
\$ 179,660.69													
0002	SMART CHARG MICROGRI												

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Reference No. of Document Being Continued
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Name of Offeror or Contractor: HONEYWELL INTERNATIONAL INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002AA	<p><u>POWER SECURE LABOR</u></p> <p>SERVICE REQUESTED: SMART CHARG MICROGRI CLIN CONTRACT TYPE: Fixed Price Level of Effort PRON: R322C181R3 PRON AMD: 02 ACRN: AA AMS CD: 63300553D00</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD QUANTITY DATE</u> 001 1 08-JUL-2014</p> <p style="text-align: right;">\$ 294,445.82</p>	1	LO		\$ 294,445.82
0003	SMART CHARG MICROGRI				
0003AA	<p><u>BLANK</u></p> <p>SERVICE REQUESTED: SMART CHARG MICROGRI CLIN CONTRACT TYPE: Fixed Price Level of Effort PRON: R322C181R3 PRON AMD: 02 ACRN: AA AMS CD: 63300553D00</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD QUANTITY DATE</u> 001 1 08-JUL-2014</p>	1	LO		\$ ** NSP **
0004	SMART CHARG MICROGRI				
0004AA	<p><u>MATERIAL</u></p> <p>SERVICE REQUESTED: SMART CHARG MICROGRI CLIN CONTRACT TYPE: Fixed Price Level of Effort PRON: R322C181R3 PRON AMD: 02 ACRN: AA</p>	1	LO		\$ 304,508.74

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Name of Offeror or Contractor: HONEYWELL INTERNATIONAL INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001	1 08-JUL-2014 \$ 3,290.75				

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 9 of 22****PIIN/SIIN** W56HZV-13-C-0024**MOD/AMD** P00001**Name of Offeror or Contractor:** HONEYWELL INTERNATIONAL INC.Milestone Payment Plan

1. Milestone: MTS Installation and Demonstration.

Milestone Completion Date: 31 January 2014

Payment Amount: \$400,000.00

Payment Due: 31 January 2014

2. Milestone: Complete installation and commissioning of Peak Shaving Server and complete installation and demonstration of Solar Array Inverters.

Milestone Completion Date: 1 April 2014

Payment Amount: \$300,000.00

Payment Due: 1 April 2014

3. Milestone: Submission of Final Report

Milestone Completion Date: 8 July 2014

Payment Amount: \$248,503.61

Payment Due: 8 July 2014

*** END OF NARRATIVE B0002 ***

Name of Offeror or Contractor: HONEYWELL INTERNATIONAL INC.

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

STATEMENT OF WORK (SOW)ARMY ALOHA MICROGRID 1 & 2 (AAMG1 & AAMG2)

1.0 SCOPE

The scope of this effort is, first: to maintain, repair, support and monitor Army Aloha Microgrid 1 (AAMG1) at Wheeler Army Air Field (WAAF), Hawaii. Second: the contractor shall modify Army Aloha Microgrid 2 (AAMG2) to enable transition of Solar Array as further explained in paragraph C.5.0. Third: the contractor shall furnish data collection and analysis at AAMG1. Fourth: the contractor shall provide and install an isolation switch at WAAF on AAMG1. Fifth: the contractor shall procure and install a server & control structure to implement a Government Furnished Peak Shaving Algorithm at WAAF that utilizes stored energy and power generation to reduce demand charges for the installation.

2.0 MAINTANCE and REPAIR, SUPPORT, and MONITOR OBJECTIVES

2.0.1 Upon the date of contract award, the contractor shall monitor, maintain, and repair AAMG1 as follows:

2.0.1.1 AAMG1 shall be maintained for fifteen (15) months from the date of contract award in order to maintain the Microgrid in operating condition.

2.1 MAINTANCE and REPAIR, SUPPORT, and MONITOR OBJECTIVES REQUIREMENTS

2.1.1

(a) The contractor shall maintain, monitor, support and repair AAMG1 for fifteen (15) months beginning on the date of contract award. The AAMG1 equipment includes the following: AC Module, DC Module, fixed and mobile solar panels, Energy Storage Module, and electric vehicle (EV) support equipment.

(b) The contractor shall improve the control system for the Energy Storage Module such that it shall provide energy to the building loads at least 90% of the time when the utility experiences an outage.

(c) The contractor shall support and monitor AAMG1 by collecting data (per Section 2.1.5 below), conducting on-site support and preparing operational reports per CDRL A002.

(d) Activities shall also include any on-site repairs to the AAM1. This activity also includes development of an updated evaluation plan and a final evaluation report, in accordance with CDRLs A002 and A003. The updated evaluation plan and final report shall include:

- (i) Detailed Root cause analysis with supporting data
- (ii) Technical data to document the completed repair
- (iii) Design change recommendations to reduce risk of repeat failures

2.1.2 As a minimum, the contractor shall conduct a monthly physical inspection of AAMG1 to record any error codes from the systems, identify any physical damage, and verify proper operations of the systems. The contractor shall respond to emergency conditions and provide corrective actions. The contractor shall record and report the information covered by this paragraph 2.1.2 per CDRL A008.

2.1.3 Emergencies. In the case of an emergency reported by, or on behalf of, Wheeler Army Air Field, the contractor shall be on site within 24 hours. The COR shall be notified by telephone within 12 hours of any emergency situation. The contractor shall respond to the emergency issues and repair them as soon as possible. The contractor shall be available to respond to any reported issues during any calendar day, including Government holidays.

2.1.3.1 The contractor shall immediately initiate repairs for emergency actions estimated to cost less than \$5,000. An itemized list of materials for the identified repair shall be provided to the COR within 48 hours of the contractors arrival at the site, IAW CDRL A008.

2.1.3.2 For emergency actions estimated to cost greater than \$5,000, the contractor shall first obtain concurrence from the COR. (For non-emergency actions COR concurrence is required at a lower dollar level: refer to 2.1.4.2 below.) The term emergency actions includes system failure, main subsystem failures, lack of power to the grid.

2.1.3.3 The contractor shall purchase all materials required to effect repair under this contract, and provide the laborers required to perform the emergency remediation.

2.1.4 Maintenance. The contractor shall perform preventive maintenance on AAMG1 according to the schedule outlined in the AAMG1 basic

Name of Offeror or Contractor: HONEYWELL INTERNATIONAL INC.

maintenance manual.

2.1.4.1 The contractor shall record all maintenance and repair actions into the database IAW CDRL A008.

2.1.4.2: The contractor shall provide a cost estimate (per CDRL A008) for any identified issues and initiate maintenance actions estimated to cost less than \$1,000. The contractor shall only perform corrective maintenance actions (non-emergency) estimated to cost greater than \$1,000 after receiving written concurrence from the COR. The contractor shall purchase all materials under this contract, and provide the laborers required to perform the maintenance.

2.1.5 Data Collection. The contractor shall support and monitor AAMG1 by collecting data regularly during the period of performance. This includes creating and populating a database consisting of the following data:

- 2.1.5.1 Voltage and current of energy sources; this includes solar arrays, wind generators, or generators
- 2.1.5.2 Voltage and current of the electric energy storage system.
- 2.1.5.3 Voltage and current of the vehicle charging stations.
- 2.1.5.4 Inputs and outputs from the main Microgrid Control Module.
- 2.1.5.5 Voltage, current, and power provided to or drawn from the Utility.
- 2.1.5.6 Voltage, current, and power provided to building loads.

The database shall be submitted electronically to the COR as an attachment to the Final Report IAW CDRL A002.

2.1.6 The contractor shall record (per Section 2.1.5 above) and analyze the following data:

- 2.1.6.1 Average power provided from each Microgrid subcomponent.
- 2.1.6.2 Average number of reported issues of the Microgrid and Microgrid subcomponents.
- 2.1.6.3 Ratio of operational status to non-operational status of the Microgrid and Microgrid subcomponents.

2.1.6.1 The purpose of the data recording and analysis is to create an analytical foundation for the design of more reliable microgrids. The contractor shall furnish the recorded data and analysis in accordance with CDRL A002.

2.2 MAINTANCE and REPAIR, SUPPORT and MONITOR OBJECTIVES MEETINGS

2.2.1 Start of Work/Kick-Off Meeting: The contractor shall schedule, coordinate, and conduct a one-day Start of Work meeting and prepare presentation materials for use at the meeting within 15 business days after contract award in accordance with CDRLs A001 and A005. The contractor shall electronically deliver minutes from the Start of Work Meeting. Meeting deliverables shall include:

- 2.2.1.1 All proposed aspects of the planned work.
- 2.2.1.2 A plan for accomplishing the contract requirements and milestones.
- 2.2.1.3 Timeline of the project (broken down by each Task as itemized in the contract).
- 2.2.1.4 Financial breakdown of the project
- 2.2.1.5 Contractor Points of Contact (POCs), POC contact information, and respective project responsibilities
- 2.2.1.6 The plan for program and contract management, to include how the contractor will track progress, and how progress and schedule will be reported to the COR.

2.2.2 Interim Program Review Meetings:

2.2.2.1 The contractor shall initiate, coordinate, and conduct an Interim Program Review (IPR) with presentation materials no later than four months after the date of the contract award.

2.2.2.2 The contractor shall initiate, coordinate, and conduct a second Interim Program review no later than eight months of the date of the contract award.

2.2.2.3 Each IPR meeting will be held at the Detroit Arsenal, unless both parties mutually agree to an alternate location. At each meeting, the contractor shall present the progress to date, open issues, and report the current and planned financial status of work in accordance with CDRL A001.

2.2.3 Bi-Weekly Teleconferences and Monthly Reporting: The contractor shall coordinate and perform bi-weekly update teleconferences with TARDEC and provide a monthly summary of these meetings in the form of action items managed, schedule, completion of schedule elements, manpower applied, issues captured, and sub-contractor performance in accordance with CDRL A003.

2.3 MAINTANCE and REPAIR, SUPPORT and MONITOR OBJECTIVES PROGRAM MANAGEMENT

2.3.1 The contractor shall conduct bi-weekly teleconferences, per Section 2.2.3 above.

2.3.2 The contractor shall prepare and furnish a Monthly Status Report beginning 30 days after contract award IAW CDRL A003.

2.3.3 The contractor shall prepare and furnish a final report IAW CDRL A002.

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2.4 MAINTANCE and REPAIR, SUPPORT and MONITOR OBJECTIVES DELIVERABLES

2.4.1 The contractor shall provide a detailed report on data collection of AAMG 1 fourteen (14) months after the date of award. This report shall be delivered in accordance with CDRL A002.

2.4.2 Program Management: Monthly Status Reports shall be delivered IAW CDRL A003.

2.4.3 Final Report: The final report on data collection shall be delivered IAW CDRL A002.

2.4.4 Maintenance Manual for Aloha Microgrid 1:

The Maintenance Manual for Aloha Microgrid 1 shall be delivered (IAW CDRL A003) seven (7) months after the date of award.

3. MANUAL TRANSFER SWITCH (AAMG1)

3.0 MANUAL TRANSFER SWITCHES OBJECTIVE (AAMG1)

The contractor shall install and integrate a Manual Transfer Switch (isolation switch) at the Wheeler Army Air Field (WAAF) site to allow temporary isolation of the AAMG1 from the buildings it services. This allows for longer duration AAMG1 development and maintenance activities without impacting base functions. In addition, the Manual Transfer Switch would provide the following improved functionality for the Army:

3.0.1 Supports maintenance, diagnosis, repair of AAMG1 without shutting off power to the four buildings and their data center that are serviced by the Microgrid.

3.0.2 Allows for implementing additional functionality and thorough, efficient testing of the system prior to going back online.

3.0.3 Allows the Department of Public Works (DPW) to isolate the systems with minimal effort and risk in the event the movement of the modules will be required by the Army.

3.1 MANUAL TRANSFER SWITCH (AAMG1) REQUIREMENTS The contractor shall (i) provide the detailed design of the Manual Transfer Switch (MTS), (ii) update the AAMG1 drawing set to incorporate the MTS, and (iii) install, integrate, and test the MTS, no later than four months after contract award. The MTS design shall be delivered with CDRL A004.

3.1.1 The contractor shall install a concrete pad, conduit, and any other ancillary equipment necessary to mount the Manual Transfer Switch.

3.1.2 The contractor shall coordinate, with Schofield Barracks Department of Public Works (DPW), all required permits and inspections.

3.1.3 The contractor shall (i) verify that the WAAF microgrid operates correctly with the MTS, and (ii) deliver an as-built interconnect drawing set after installation in accordance with CDRL A004.

3.1.4. The contractor shall provide maintenance and repair to the MTS and its mounting from installation through the remaining period of performance of this contract.

3.1.5. The contractor shall provide monthly progress reports to the COR in accordance with CDRL A003.

3.2 MANUAL TRANSFER SWITCH (AAMG1) MEETINGS

3.2.1 As part of its presentation at the Start of Work/Kick-Off required per Section 2.2.1 above, the contractor shall develop and provide an Integrated Master Schedule and Program Management Plan governing its execution of work on this Section 3 (MTS). The Integrated Master Schedule and Program Management Plan shall identify the means, and associated schedule, to accomplish the tasks required per Section 3 of this Statement of Work IAW CDRL A006. Presentation materials shall be in accordance with CDRL A005. In addition, the contractor shall document the planned schedule and milestones to complete these tasks as part of the meeting minutes per Section 2.2.1 above.

3.2.2 Prior to commencement of installation of the MTS, and in conjunction with the Interim Program Review meeting per Section 2.2.2.1 above, the contractor shall plan and conduct a Final Design Review (FDR) at the Detroit Arsenal for the MTS. At the FDR the contractor shall present the MTS design to the COR for Government review and comment in accordance with CDRLs A004. Based on the comments from the Government, the contractor shall incorporate all necessary requirements and changes.

3.2.3 The contractor shall coordinate with the COR in advance of the installation and commissioning of the MTS so the COR can arrange to be present to witness the commissioning, and shall complete the commissioning no later than 150 calendar days after kick off, in conjunction with one of the meetings to be held per this Statement of Work.

3.3 MANUAL TRANSFER SWITCH (AAMG1) PROGRAM MANAGEMENT

3.3.1 The contractor shall prepare and deliver Monthly Status Reports IAW CDRL A003.

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Name of Offeror or Contractor: HONEYWELL INTERNATIONAL INC.

3.3.2 The contractor shall prepare and deliver a final report IAW CDRL A002.

3.3.3 The contractor shall perform all necessary program management functions to facilitate the design, development, demonstration, and evaluation periods.

3.3.3.1 The contractor shall conduct the system demonstration required by Section 3.4 below.

3.3.3.2 No less frequently than monthly, the contractor shall review the current status or work and discuss any performance or schedule issues with the Government COR by e-mail, telephone, or face to face meetings, and shall summarize these working reviews in the Monthly Evaluation Report IAW CDRL A003.

3.4 MANUAL TRANSFER SWITCHES (AAMG1) TESTING / DEMONSTRATION / EVALUATION

3.4.1. The contractor shall perform a System Capability Demonstration of the Manual Transfer Switch at the Schofield Barracks test site in Oahu, Hawaii, which shall begin no later than five months after Contract award. The contractor shall demonstrate all primary system functions including inputs and outputs, performance, and human interface operations. The Government reserves the right to witness and observe all testing at the contractors facility or at Wheeler Army Air Field, Oahu, Hawaii. The contractor shall provide the COR with the detailed test schedule at the Start of Work Meeting (IAW Sections 2.2.1 and 3.2.1, and CDRL A007). The project timeline for the Manual Transfer Switch is:

- (a) Complete design by four months after contract award
- (b) Develop a full test plan for system validation test and demonstration
- (c) Install and commission by five months after contract award
- (d) Complete system test, demonstration, and validation by eight months after contract award.

3.4.1.1 For the entire period of performance of this contract, the contractor shall perform monthly monitoring, data logs, and resource tracking.

3.4.1.2 The contractor shall deliver to the COR, in electronic format and in accordance with CDRL A008, the following: monthly monitoring logs, general system operation status checklists, data logs, preventative and corrective maintenance logs, corrective action reports, and a summary of progress.

3.4.1.3 The contractor shall develop and deliver to the COR, in electronic format and in accordance with CDRL A002, a final system evaluation report, which shall be due at the close of the evaluation period.

3.5 MANUAL TRANSFER SWITCHES (AAMG1) DELIVERABLES

3.5.1 Program Management: Monthly Status Reports shall be delivered IAW CDRL A003.

3.5.2 Safety Assessment Report: Safety Assessment Report shall be delivered IAW CDRL A009.

3.5.3 Final Scientific Report and Technical Report: The final report shall be delivered IAW CDRL A002.

3.5.4 Hardware: The 800 Amp, 480 Volt VAC 3-phase Manual Transfer Switch, the mounting components, the cables, connectors and conduit shall be delivered to and installed at Wheeler Air Force Base no later than five months from the Contract award. It should be installed at the Wheeler Army Air Field.

3.5.5 Test/Demonstration Plans: Test/Demonstration Plans shall be delivered IAW CDRL A007.

4. Implementation of Peak Shaving on AAMG1**4.0 Implementation of Peak Shaving on AAMG1 Objective**

4.0.1 The effort is intended to provide incremental capability to the U.S. Army Garrison Hawaii (USAG-HI) that provides value through cost savings or enhanced functionality with minimal resource requirement to maintain and operate. At the efforts end, the AAMG1 shall be evaluated against a set of parameters to determine if the systems are acceptable to the USAG-HI for transition. Transition will be enabled through providing enough reduction in utility costs to support the maintenance of the system. Prior analysis indicates that this effort has good potential of achieving the objective.

4.0.2 Additionally, the capabilities developed can be transitioned to other microgrids to enable fiscally responsible implementation of microgrids on CONUS installations. Currently it is recognized that microgrids can provide a valuable service when the host utility has failed. However, cost justification of electrical power security does not support the necessary physical investment. This lack of

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justification will stunt implementation of microgrids. This project potentially provides the tools and capability to justify broad implementation of microgrids.

4.1 Implementation of Peak Shaving on AAMG1 Requirements

This task shall add a peak shaving capability to the AAMG1 that gathers electric utility demand and determines when to export stored or generated energy to minimize peak demand for Schofield Barracks and Wheeler Army Air Field. To accomplish this effort, the contractor shall perform the following:

4.1.1 The contractor shall perform a software modification to the AC control module of AAMG1 to receive, understand and respond to a Peak Shaving signals. The AAMG1 AC control module shall be capable of the following:

4.1.1.1 Calculate electrical energy in kWh available for peak shaving. This data shall be calculated at a rate of once per minute while the AC module is operational.

4.1.1.2 Calculate available power (from energy storage and power generation) in kW that the AC Control Module is capable of providing for peak shaving. This data shall be calculated at a rate of once per minute (minimum) while the AC module is operational.

4.1.1.3 The AC module shall send messages that provide the real time data calculated for the electrical energy available IAW C.4.1.1.1 and available power IAW C.4.1.1.2 to the Peak Shaving Server in the format dictated in Attachment A: Peak Shaving Algorithm Interface Control Document. Additionally the Peak Shaving Algorithm will be provided as Government Furnished Information (GFI) upon award of contract modification P00001.

4.1.1.4 The AC module shall receive and interpret messages from the Peak Shaving Server to provide power to the utility grid. The messages shall be in the format dictated in Attachment A: Peak Shaving Algorithm Interface Control Document.

4.1.1.5 All communications between the Peak Shaving Server and AAMG1 shall be sent using Ethernet TCP/IP.

4.1.1.6 The AC module shall send a command to the Energy Storage Module to export power to meet the peak shaving requests from the Peak Shaving Server.

4.1.1.7 The AC Module shall be capable of starting diesel generators to meet peak shaving requests from the Peak Shaving Server.

4.1.1.8 The AC module shall be capable of operating independently of user input to achieve peak shaving.

4.1.1.8.1 The contractor shall create a user interface capable of manually changing parameters that manage AAMG1s demand response peak shaving capability, such as maximum power flow capability and total maximum energy. The user interface shall display peak shaving performance information including:

- (i) Power in kW being provided to the grid for peak shaving versus time,
- (ii) Peak shaving signal versus time,
- (iii) Maximum energy in kWh available to do peak shaving,
- (iv) Maximum power capability of AAMG1 in kW.

The time frame used for the display shall be adjustable and include the previous 24 hours, the previous week, previous month, and previous year.

4.1.1.8.2 The AC Module shall be capable of integrating additional power generation resources into the power capability and response for the Peak Shaving Server when a controllable power asset has been added to the microgrid.

4.1.2 The contractor shall procure, install and connect a Server at Wheeler AARF/Schofield Barracks (as long as the AC module and Server can send and receive signals to each other) which contains the Government Furnished Peak Shaving Algorithm that will store and analyze electrical meter data and send out a signal for the recommended level of exported power to shave a peak. The contractor shall fulfill the following requirements:

4.1.2.1 The contractor shall procure a Server with the following capabilities:

4.1.2.1.1 Adequate memory shall be available to install the Peak Shaving Algorithm, the installation meter aggregation software, the learning algorithm, and meter data for a period covering the most recent two years of usage for Schofield Barracks and Wheeler Army Airfield.

4.1.2.1.2 Communication port for TCP/IP communications over Ethernet to AAMG1 located at Wheeler Army Airfield.

4.1.2.1.3 Communication port for real time installation meter data to feed into a databank for use by the Peak Shaving Algorithm.

4.1.2.1.4 Aggregation of the meter data (assuming multiple substations) to calculate an installation average energy consumption rate at a minimum of once per minute. An aggregation algorithm will be provided as Government Furnished Information.

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4.1.2.1.5 Capable of operating with C+ compatible program libraries and algorithms.

4.1.2.2 The contractor shall install the Peak Shaving Algorithm, Meter Data Aggregation software, and the Peak Shaving Learning Algorithm on the server. The server shall send a peak shaving signal at a rate of once per minute (threshold) to once per second (objective) to the AC Control Module.

4.1.2.3 The contractor shall survey and propose an installation plan and location for the server, with Department of Public Works (DPW) approval to the COR for review and approval. The contractor shall target a design that:

- (i) Minimizes impact to garrison operations.
- (ii) Minimizes installation costs of the server.
- (iii) Meets requirements for the capability to receive and send signals to or from AAMG1, installation meters, and other demonstration systems.

The installation plan shall include any physical modifications that will be necessary, communication protocols, physical and message interfaces, and one-line drawings of the server installation.

4.1.2.4 The contractor shall hold a meeting with USAG-HI representatives from the Network Enterprise Center, Directorate of Public Works, and Site Representatives, TARDEC representatives, and US Army Corps of Engineers to review the plan developed per C.4.1.2.3, communication cabling requirements, and requirements for being approved to connect to the Installation network.

4.1.2.5 The contractor shall obtain a permit/approval from the Network Enterprise Center for USAG-HI to operate the server on the Installation Network at Schofield Barracks and Wheeler Army Airfield.

4.1.2.6 The contractor shall install the Server, any additional cabling required, and make the communication connections required to communicate with AAMG1 and receive installation meter data.

4.1.3 The contractor shall connect the peak shaving server to the available data acquisition system on the WAAF substation meters. The peak shaving server shall collect the real time substation meter data to be consolidated to feed into the Peak Shaving Algorithm. To complete this effort, the contractor shall meet the following requirements:

4.1.3.1 The contractor shall implement an aggregation program of the appropriate active meter data from all metering equipment deployed at substations that feed Schofield Barracks and Wheeler Army Air Field.

4.1.3.2 The contractor shall insure that server captures aggregated meter data and AAMG1 power output versus time to show impact on installation power usage. This data shall be recorded and displayed on the user interface in accordance with paragraph 4.1.1.8.1. The contractor shall capture this data and include it in the final report IAW CDRL A002

4.2 Implementation of Peak Shaving on AAMG1 MEETINGS

4.2.1 As part of its presentation at the Start of Work/Kick-Off required per Section 2.2.1 above, the contractor shall develop and provide an Integrated Master Schedule and Program Management Plan governing its execution of work on this Section 4. The Integrated Master Schedule and Program Management Plan shall identify the means, and associated schedule, to accomplish the tasks required per Section 4 of this Statement of Work IAW CDRL A006. Presentation materials shall be in accordance with CDRL A005. In addition, the contractor shall document the planned schedule and milestones to complete these tasks as part of the meeting minutes per Section 2.2.1 above.

4.2.2 Prior to commencement of installation of the Peak Shaving Server, and in conjunction with the Interim Program Review meeting per Section 2.2.2.1 above, the contractor shall plan and conduct a Final Design Review (FDR) at the Detroit Arsenal for the Peak Shaving Server. At the FDR the contractor shall present the Peak Shaving Server design to the COR for Government review and comment in accordance with CDRLs A004. Based on the comments from the Government, the contractor shall incorporate all necessary requirements and changes.

4.2.3 The contractor (i) shall coordinate with the COR at least seven (7) weeks in advance of the installation and commissioning of the Peak Shaving Server so the COR can arrange to be present to witness the commissioning; and (ii) shall complete the commissioning no later than 150 calendar days after kick off, in conjunction with one of the meetings to be held per this Statement of Work.

4.3 Implementation of Peak Shaving on AAMG1 PROGRAM MANAGEMENT

4.3.1 The contractor shall write a test plan that describes how the initial testing will be completed to verify the operation of the automated Peak Shaving functionality of the AAMG1 as per CDRL A007.

4.3.2 The contractor shall prepare and deliver Monthly Status Reports as per CDRL A003.

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4.3.3 The contractor shall prepare and deliver a final report as per CDRL A002.

4.3.4 The contractor shall perform all necessary program management functions to facilitate the design, development, demonstration, and evaluation periods.

4.3.4.1 The contractor shall conduct the system testing and evaluation required by Section 4.4 below.

4.3.4.2 The contractor shall write a report of the results of the initial test of the peak shaving functionality of the AAMG1 that includes the protocols followed, the data supporting the completion of the testing, and an evaluation of the performance of the added functionality.

4.3.4.3 No less frequently than monthly, the contractor shall review the current status of work and discuss any performance or schedule issues with the COR by e-mail, telephone, or face to face meetings, and shall summarize these working reviews in the Monthly Evaluation Report IAW CDRL A003.

4.4 Implementation of Peak Shaving on AAMG1 Testing and Evaluation

4.4.4 The contractor shall perform initial testing and evaluation of automated operation of Army Aloha Microgrid 1 in performing Peak Shaving in response to the automated peak shaving signal sent from the Peak Shaving Algorithm. To complete this effort the contractor shall fulfill the following requirements:

4.4.4.1 The contractor shall perform initial testing on-site where the implementation of the peak shaving shall be completed. The contractor shall monitor the automated operation of the AAMG1 for a period of one week, recording and verifying the following:

4.4.4.1.1 Three-phase current data in amperes is being collected.

4.4.4.1.2 Rate of data collection is greater than one data point per minute.

4.4.4.1.3 The meter data is being aggregated in real time and accessed by the peak Shaving Algorithm to determine peak shaving signal.

4.4.4.1.4 The peak shaving server is sending a peak shaving signal at a rate of once per minute or faster.

4.4.4.4 The contractor shall provide daily remote monitoring of the Peak Shaving Server and AAMG1 performance through monitoring of the peak shaving signal value, actual power being provided in response to the signal, and automatic switching and control signals within the AAMG1. The daily remote monitoring of the operation of the system shall be performed for a period of 3 months after a successful initial test. The contractor shall align the aggregated meter data with the peak shaving signal and the response by the AAMG1 to show the overall effect the system is creating.

4.4.4.5 The contractor shall perform an onsite performance test at 10 months after completion of the successful initial testing of peak shaving per Section 4. The contractor shall test the performance of the Peak Shaving Server and AAMG1 to confirm that performance has not degraded after automated operation by monitoring the following parameters for a period of one week:

4.4.4.5.1 Three-phase current data in amperes is being collected.

4.4.4.5.2 Rate of data collection is greater than one data point per minute.

4.4.4.5.3 The meter data is being aggregated in real time and accessed by the peak Shaving Algorithm to determine peak shaving signal.

4.4.4.5.4 The peak shaving server is sending a peak shaving signal at a rate of once per minute or faster.

4.4.4.5.5 The peak shaving power response is proportional and appropriate to the peak shaving signal.

4.4.4.6 If the performance test in C.4.1.4.5 shows degradation, the contractor shall determine the root cause, resolve all issue and verify capability has been restored.

4.5 Implementation of Peak Shaving on AAMG1 Deliverables

4.5.1 Program Management: Monthly Status Reports shall be delivered IAW CDRL A003.

4.5.2 Safety Assessment Report: Safety Assessment Report shall be delivered IAW CDRL A009.

4.5.3 Final Scientific Report and Technical Report: The final report shall be delivered IAW CDRL A002.

4.5.4 Hardware: The Peak Shaving Server and associated hardware shall be delivered to and installed at Wheeler Air Force Base no later than five months from the award of modification P00001. It should be installed at the Wheeler Army Air Field.

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4.5.5 Test/Demonstration Plans: Test/Demonstration Plans shall be delivered IAW CDRL A007.

5.0 Modification of AAMG2 for Subsystem Transfer

5.1 Modification of AAMG2 for Subsystem Transfer Requirements

5.1.1 The contractor shall submit a design for the connection of the solar carport array to the electrical utility at the transformer. The design shall include the one-line electrical drawings, specifications for equipment to be installed, documentation for physical modifications to the site that are necessary, as well as modifications to the solar carport. The contractor shall present the design documents to TARDEC and USAG-HI for review and concurrence.

5.1.2 The contractor shall purchase commercially available inverters for the solar arrays that meet the following requirements:

- 5.1.2.1 Grid-tie capable
- 5.1.2.2 Stainless Steel NEMA 4 enclosure
- 5.1.2.3 Power factor or VAR correction
- 5.1.2.4 Sized to support the two 25kW solar arrays
- 5.1.2.5 Transformer isolated
- 5.1.2.6 Capable of three-phase, 480V output to utility
- 5.1.2.7 Underwriters Laboratory certified
- 5.1.2.8 AC/DC Disconnects

5.1.3 The contractor shall install the inverters and all supplemental wiring and equipment necessary to implement the approved design from 5.1.1 to connect the solar arrays to the utility.

5.2 Modification of AAMG2 for Subsystem Transfer Objective

5.2.1 The contractor shall purchase and install the equipment necessary to connect the solar carports photovoltaic array to the utility through the local transformer. This shall provide value for this system to the USAG-HI through consistent reduction of total electrical utility costs for Schofield Barracks East Range.

5.3 Modification of AAMG2 for Subsystem Transfer Meetings

5.3.1 As part of its presentation at the Start of Work/Kick-Off required per Section 2.2.1 above, the contractor shall develop and provide an Integrated Master Schedule and Program Management Plan governing its execution of work on this Section 5. The Integrated Master Schedule and Program Management Plan shall identify the means, and associated schedule, to accomplish the tasks required per Section 5 of this Statement of Work, and shall be IAW CDRL A006. Presentation materials shall be in accordance with CDRL A005. In addition, the contractor shall document the planned schedule and milestones to complete these tasks as part of the meeting minutes per Section 2.2.1 above.

5.3.2 Prior to commencement of the AAMG2 subsystem transfer modifications and in conjunction with the Interim Program Review meeting per Section 2.2.2.1 above, the contractor shall plan and conduct a Final Design Review (FDR) at the Detroit Arsenal for the AAMG2 Subsystem Transfer modifications. At the FDR the contractor shall present the Peak Shaving Server design to the COR for review and comments in accordance with CDRLs A004. Based on the comments from the COR, the contractor shall incorporate all necessary requirements and changes.

5.4 Modification of AAMG2 for Subsystem Transfer Program Management

5.4.1 The contractor shall prepare and deliver Monthly Status Reports IAW CDRL A003.

5.4.2 The contractor shall prepare and deliver a final report IAW CDRL A002.

5.4.3 The contractor shall perform all necessary program management functions to facilitate the design, development, demonstration, and evaluation periods.

5.4.3.1 The contractor shall conduct the system demonstration required by Section 5.5 below.

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5.4.3.2 No less frequently than monthly, the contractor shall review the current status or work and discuss any performance or schedule issues with the COR by e-mail, telephone, or face to face meetings, and shall summarize these working reviews in the Monthly Evaluation Report IAW CDRL A003.

5.5 Demonstration of AAMG2 for Subsystem Transfer Test and Evaluation

5.5.1 Upon installation of the Solar Array Inverters, the contractor shall perform a demonstration of the system to validate that the system is properly connected to the utility and that power is being provided to the installation.

5.5.2 The contractor shall develop a report of the results of the demonstrations in 5.4.3.1 and 5.5.1 IAW CDRL A002.

5.6 Modification of AAMG2 for Subsystem Transfer Deliverables

5.6.1 The contractor shall provide the following documents as deliverables:

5.6.1.1 As-built drawings of site modifications and equipment installation for the Solar Array inverter being installed.

5.6.1.2 Operator Manuals for the equipment

5.6.1.3 Maintenance Manuals and Processes

5.6.1.4 Training documentation for the installed systems

5.6.1.5 Final Report of acceptance testing

5.6.2 The contractor shall deliver the following hardware:

5.6.2.1 DC to AC inverters IAW 5.1.3

5.6.2.2 Mounting components for Inverters

5.6.2.3 Cables, connectors and conduit for Inverters

6.0 MEETINGS

6.1 Start of Work/Kick-Off Meeting: The contractor shall schedule, coordinate, and conduct a Start of Work meeting no later than fifteen days after date of contract award to address the subjects required per Sections 2.2.1, 3.2.1, and 4.3.1 above. The contractor shall prepare and furnish presentation materials in accordance with CDRL A005.

6.2 Interim Program Review Meetings:

6.2.1 The contractor shall initiate, coordinate, and conduct a first Interim Program Review no later than four months after the date of the contract award.

6.2.2 The contractor shall initiate, coordinate, and conduct a second Interim Program review no later than eight months after contract award.

6.2.3 Each IPR meeting will be held at the contractors location, unless both parties mutually agree to an alternate location.

6.2.4 At each IPR meeting, the contractor shall present the progress to date, open issues, and financial report in accordance with CDRL A005

6.3 Bi-Weekly Meetings and Monthly Reporting: The contractor shall: (i) coordinate and perform bi-weekly update meetings with TARDEC by teleconference; and (ii) provide a monthly summary of these meetings in the form of action items managed, schedule, completion of schedule elements, man power applied, issues captured, and sub-contractor performance in accordance with CDRL A003.

6.4 PROGRAM MANAGEMENT

6.4.1 The contractor shall prepare a Monthly Status Report IAW CDRL A003.

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6.4.2 The contractor shall prepare a final report IAW CDRL A002.

6.5 DELIVERABLES

6.5.1 Final Report

The final report shall be delivered IAW CDRL A002.

6.5.2 Hardware

Manual Transfer Switch, Peak Shaving Server, Solar Array Inverters, mounting components for Inverters, cables, conduits, and connectors for inverters.

*** END OF NARRATIVE C0002 ***

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SECTION F - DELIVERIES OR PERFORMANCE

F.1 Period of Performance

F.1.1 All effort required under this contract, including delivery of the final technical report, shall be completed by 8 July 2014.*

F.2 Data Deliverables

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

F.3 Material/Hardware Deliverables

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

U.S. Army TACOM
ATTN: Steven T. Eick
RDTA-RS-GVPM, Mail Stop 121
6501 E. 11 Mile Road
Warren, MI 48397-5000

All shipments shall be coordinated with Steven Eick prior to delivery.

*Changed with Modification P00001.

*** END OF NARRATIVE F0002 ***

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SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ MIPR/ <u>ITEM</u>	OBLG <u>STAT</u>	JO NO/ <u>ACCT ASSIGN</u>	ACRN	PRIOR AMOUNT	INCREASE/ DECREASE	CUMULATIVE AMOUNT
0001AA	R322C181R3 63300553D00	2	22C181	AA \$	156,919.00 \$	22,741.69 \$	179,660.69
0002AA	R322C181R3 63300553D00	2	22C181	AA \$	240,345.00 \$	54,100.82 \$	294,445.82
0003AA	R322C181R3 63300553D00	2	22C181	AA \$	75,320.00 \$	-75,320.00 \$	0.00
0004AA	R322C181R3 63300553D00	2	22C181	AA \$	309,322.00 \$	-4,813.26 \$	304,508.74
0005AA	R322C115R3 63300553D00	2	22C115	AB \$	168,370.00 \$	-1,772.39 \$	166,597.61
0005AB	R322C181R3 63300553D00	2	22C181	AA \$	0.00 \$	3,290.75 \$	3,290.75
					NET CHANGE	\$ -1,772.39	

ACRN	ACCOUNTING CLASSIFICATION	INCREASE/ DECREASE
AA	21 22040000026N6N7EP6330052516 S20113 W56HZV	\$ 0.00
AB	21 22040000026N6N7EP633005255Y S20113 W56HZV	\$ -1,772.39
NET CHANGE		\$ -1,772.39

NET CHANGE FOR AWARD:	\$	PRIOR AMOUNT OF AWARD	\$	INCREASE/DECREASE AMOUNT	\$	CUMULATIVE OBLIG AMT
		950,276.00		-1,772.39		948,503.61

LINE	ACRN	EDI/SFIS	ACCOUNTING CLASSIFICATION
0001AA	AA	21	121320400000 W56HZV 26N6N7E63300553D002516R322C181R3 22C181 S20113
0002AA	AA	21	121320400000 W56HZV 26N6N7E63300553D002516R322C181R3 22C181 S20113
0003AA	AA	21	121320400000 W56HZV 26N6N7E63300553D002516R322C181R3 22C181 S20113
0004AA	AA	21	121320400000 W56HZV 26N6N7E63300553D002516R322C181R3 22C181 S20113
0005AA	AB	21	121320400000 W56HZV 26N6N7E63300553D00255YR322C115R3 22C115 S20113
0005AB	AA	21	121320400000 W56HZV 26N6N7E63300553D002516R322C181R3 22C181 S20113

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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 REQUIREMENT LIST (CDRL) DD1423			

CONTRACT DATA REQUIREMENT LIST Form Approval OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

Please DO NOT RETURN your form to either 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.: 0004
- B. EXHIBIT : A
- C. CATEGORY:
- D. SYSTEM/ITEM.: Army Aloha Microgrid 1 & 2
- E. CONTRACT/PR NO.: TBD
- F. CONTRACTOR.: Honeywell

-
- 1. DATA ITEM NO.: A001
 - 2. TITLE OF DATA ITEM: Conference Minutes
 - 3. SUBTITLE: Record of Meeting Minutes Report
 - 4. AUTHORITY: DI-ADMIN-81250A
 - 5. CONTRACT REFERENCE: 2.2.1, 2.2.2.3
 - 6. REQUIRING OFFICE: RDTA-RS
 - 7. DD250 REQ: LT
 - 8. APP CODE: N/A
 - 9. DIST. STATEMENT REQUIRED: A
 - 10. FREQUENCY: AS REQ
 - 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 T. Eick, Contracting Officer's Representative, email: steven.t.eick.civ@mail.mil

Rory Thelen, Contract Specialist, email: rory.g.thelen.civ@mail.mil

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

16. REMARKS:

a. The contractor shall provide Meeting Minutes to the COR within seven (7) calendar days of the start of work meeting and all subsequent meetings (Interim Program Review Meeting I & II, Final Design Review, and Bi-weekly Meetings). The contractor shall submit the minutes electronically. Contractor format is authorized.

b. Complete the reports IAW DID DI-MGMT-81250a, "Meeting Minutes." The COR is responsible for accepting or rejecting the Meeting Minutes. See the DID DI-MGMT-80227, at the Internet address below, for instructions on completing the required report.

[://assist.daps.dla.mil](http://assist.daps.dla.mil)

If this link does not work, go to: "[://assist.daps.dla.mil/quicksearch/fsc_quicksearch.cfm](http://assist.daps.dla.mil/quicksearch/fsc_quicksearch.cfm)" and insert the authority reference in item 4 above in the Document ID box and submit.

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

-
- 1. DATA ITEM NO.: A002
 - 2. TITLE OF DATA ITEM: Scientific and Technical Report
 - 3. SUBTITLE: Final Scientific and Technical Report
 - 4. AUTHORITY: DI-MISC-80711A
 - 5. CONTRACT REFERENCE: 2.1.1, 2.1.5, 2.1.6.1, 2.3.3, 2.4.1, 2.4.3, 3.3.2, 3.4.1.3 .4.2, 3.5.3,
 - 6. REQUIRING OFFICE: RDTA-RS
 - 7. DD250 REQ: LT
 - 8. APP CODE: N/A

9. DIST. STATEMENT REQUIRED: B
10. FREQUENCY: See Item 16
11. AS OF DATE:
12. DATE OF FIRST SUB: See Item 16
13. DATE OF SUBS. SUB: See item 16
14. DISTRIBUTION ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW

Steven T. Eick, Contracting Officer's Representative, email: steven.t.eick.civ@mail.mil

Rory Thelen, Contract Specialist, email: rory.g.thelen.civ@mail.mil

15. TOTAL:
16. REMARKS:
 - a. The Final Scientific shall encompass the cumulative results and data compiled for the quarterly technical reporting, and shall provide a summary assessment of the lessons learned and validation from the demonstration and evaluation data. It shall include recommendations on key areas to perform further work necessary for the better, more reliable design and deployment of a micro grid.
 - b. The Contractor shall submit a draft final report to the COR for comment forty-five (30) days prior to the completion of the project. The COR will return comments within two weeks of receipt of the draft report. The Final Report, including any revisions, shall be submitted upon completion of the project period.
 - c. The Final Report shall also include:
 1. Simulink modeling and optimization results report (4.2, 3.2.2, 5.4)
 2. Data collection database and As Built Documentation and Improvement Recommendations (2.4.1)
 3. Manual Maintenance for AAM1 and AAM2 (2.4.4)
17. PRICE GROUP: One copy to each addressee listed in block 14.
18. ESTIMATED TOTAL PRICE:

-
1. DATA ITEM NO.: A003
 2. TITLE OF DATA ITEM : Contractors Progress, Status & Management Report
 3. SUBTITLE: Monthly Evaluation Report, Manual Maintenance for AAMG1 and AAMG2
 4. AUTHORITY: DI-MISC-80227
 5. CONTRACT REFERENCE: 2.1.1, 2.2.3, 2.3.2, 2.4.2, 2.4.4, 3.1.4, 3.3.1, 3.3.3.2, 3.5.1, 4.3, 4.41 6. REQUIRING OFFICE .: RDTA-RS
 7. DD250 REQ: LT
 8. APP CODE : N/A
 9. DIST. STATEMENT REQUIRED: B
 10. FREQUENCY : Monthly
 11. AS OF DATE:
 12. DATE OF FIRST SUB: 30 Days after Task Order Award
 13. DATE OF SUBS. SUB: Every 30 days
 14. DISTRIBUTION ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Steven T. Eick, Contracting Officer's Representative, email: steven.t.eick.civ@mail.mil

Rory Thelen, Contract Specialist, email: rory.g.thelen.civ@mail.mil

15. TOTAL: One copy to each addressee listed in block 14.
16. REMARKS:
 - a. The contractor shall provide a monthly Contractors Progress, Status & Management 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, and work around plans. 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 thirty (30) days after contract award.
 - b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-MGMT-80227, "Contractor's Progress, Status, and Management Report." The COR is responsible for accepting or rejecting the Contractor's Progress, Status, and Management Reports.

See DID DI-MGMT-80227, at the Internet address below, for instructions on completing the required report.

://astimage.daps.dla.mil/docimages/0001/48/17/DI80227.PD8

17. PRICE GROUP:
18. ESTIMATED TOTAL PRICE:

-
1. DATA ITEM NO.: A004
2. TITLE OF DATA ITEM : Operation and Maintenance Instructions
3. SUBTITLE: System Schematics and Mechanical Renderings on Manual Transfer Switch (MTS) retrofit, and installation of MTS.
4. AUTHORITY : DI-MISC-81414
5. CONTRACT REFERENCE: 3.1, 3.1.3, 3.2.2
6. REQUIRING OFFICE: RDTA-NA
7. DD250 REQ: DD
8. APP CODE: None
9. DIST. STATEMENT REQUIRED: B
10. FREQUENCY : SEE ITEM 16
11. AS OF DATE: SEE ITEM 16
12. DATE OF FIRST SUB: SEE ITEM 16
13. DATE OF SUBS. SUB: SEE ITEM 16
14. DISTRIBUTION ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Steven T. Eick, Contracting Officer's Representative, email: steven.t.eick.civ@mail.mil

Rory Thelen, Contract Specialist, email: rory.g.thelen.civ@mail.mil

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

16. REMARKS:

- a .The contractor shall provide System Schematics and Mechanical Renderings IAW 3.1, Manual Transfer Switch Design no later than four months after Contract award. The contractor shall deliver a document that provides government personnel necessary operating, diagnostic, and repair procedures for using and maintaining the MTS.
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:

-
1. DATA ITEM NO.: A005
2. TITLE OF DATA ITEM: Presentation Material
3. SUBTITLE: Presentation Materials,
4. AUTHORITY: DI-ADMIN-81373
5. CONTRACT REFERENCE: 2.2.1, ,3.2.1 , , 4.1, 4.2.46. REQUIRING OFFICE: RDTA-RS
7. DD250 REQ: LT
8. APP CODE: N/A
9. DIST. STATEMENT REQUIRED: B
10. FREQUENCY: See Item 16
11. AS OF DATE: See Item 16
12. DATE OF FIRST SUB: See Item 16
13. DATE OF SUBS. SUB: See Item 16
14. DISTRIBUTION ADDRESSEES: SUBMIT ELECTRONIC DOCUMENTATION TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Steven T. Eick, Contracting Officer's Representative, email: steven.t.eick.civ@mail.mil

Rory Thelen, Contract Specialist, email: rory.g.thelen.civ@mail.mil

- a. The contractor shall deliver all presentation materials used for the start of work or any subsequent review meeting required under this effort to the government within fifteen (15) days after the meeting.
b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-ADMN-81373, "Presentation Material" The COR is responsible for accepting or rejecting the Presentation Material.
15. TOTAL:

16. REMARKS:

- a. The Contractor shall deliver the following training and presentation materials, as detailed in 2.4.1, Statement of Work
2. Two Journal Articles, delivered no later than fourteen months after Contract award.

17. PRICE GROUP: One copy to each addressee listed in block 14.

18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO.: A006
2. TITLE OF DATA ITEM: Integrated Master Schedule Program Plan
3. SUBTITLE: Program Management Plan
4. AUTHORITY: DI-MGMT-81650
5. CONTRACT REFERENCE: 3.2.1.1,
6. REQUIRING OFFICE: RDTA-RS
7. DD250 REQ.: DD
8. APP CODE: N/A
9. DIST. STATEMENT REQUIRED: B
10. FREQUENCY: See Block 16
11. AS OF DATE: See Block 16
12. DATE OF FIRST SUB.: Start of Work Meeting
13. DATE OF SUBS. SUB.: N/A
14. DISTRIBUTION: Submit reports electronically to the e-mail addresses shown immediately below:

Steven T. Eick, Contracting Officer's Representative, email: steven.t.eick.civ@mail.mil

Rory Thelen, Contract Specialist, email: rory.g.thelen.civ@mail.mil

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

16. REMARKS:

- a. The contractor shall develop and provide an Integrated Master Schedule and Program Management Plan governing its execution of work associated with the section C.3 MTS and C.4 AAMG1 and AAMG2 integration study. The Integrated Master Schedule and Program Management Plan shall identify the means, and associated schedule, to accomplish the tasks required in C.3 and C.4 of the Statement of Work. The contractor shall present the MTS design to the COR for Government review and comment at the Final Design Review. Contractor shall provide Integrated Master Schedule In accordance with DI-MGMT-81650. The contractor shall provide with the IMS, in contractor format, the Program Management Plan which shall contain schedule of events, tasks, deliverables and time line for the Period of Performance 30 days after contract award.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO.: A007
2. TITLE OF DATA ITEM: Test Procedure
3. SUBTITLE: Test/Demonstration Plans
4. AUTHORITY: DI-NDTI-80603A
5. CONTRACT REFERENCE: 3.4.1, 3.5.5,
6. REQUIRING OFFICE: RDTA-RS
7. DD250 REQ: LT
8. APP CODE: None
9. DIST. STATEMENT REQUIRED: B
10. FREQUENCY: See Item 16
11. AS OF DATE: See Item 16
12. DATE OF FIRST SUB: See Item 16
13. DATE OF SUBS. SUB: See Item 16
14. DISTRIBUTION ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Steven T. Eick, Contracting Officer's Representative, email: steven.t.eick.civ@mail.mil

Rory Thelen, Contract Specialist, email: rory.g.thelen.civ@mail.mil

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

16. REMARKS:

The contractor shall provide the COR with the detailed test schedule at the Start of Work Meeting . Contractor shall deliver Test and Demonstration plan IAW 3.4.1. Contractor format is acceptable. The Contractor shall develop Test Plans to prove that the Micro Grid meets the requirements set forth in 3.4 of this Scope of Work, and submit to the FTR, in advance of installing the MTS, for Government approval. The draft test plan shall be submitted one month prior to Final Design Review. The final test plan shall be agreed upon at the Final Design Review as stated in paragraph 3.2.2

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO.: A008
2. TITLE OF DATA ITEM: Maintenance Report
3. SUBTITLE: Maintenance and Repair Actions Record, Repair Cost Estimate Approval
4. AUTHORITY: DI-MGMT080277
5. CONTRACT REFERENCE: 2.1.1, 2.1.2, 2.1.3.1, 2.1.4.1, 2.1.4.2, 3.4.1.2.
6. REQUIRING OFFICE: RDTA-RS
7. DD250 REQ: DD
8. APP CODE: None
9. DIST. STATEMENT REQUIRED: B
10. FREQUENCY: SEE ITEM 16
11. AS OF DATE: SEE ITEM 16
12. DATE OF FIRST SUB: SEE ITEM 16
13. DATE OF SUBS. SUB: SEE ITEM Monthly
14. DISTRIBUTION ADDRESSEES: SUBMIT ELECTRONIC DOCUMENTS TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW

Steven T. Eick, Contracting Officer's Representative, email: steven.t.eick.civ@mail.mil

Rory Thelen, Contract Specialist, email: rory.g.thelen.civ@mail.mil

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

16. REMARKS:

Contractor shall provide daily monitoring logs, general system operation status checklists, data logs, preventative and corrective maintenance logs, corrective action reports, and a summary of progress. The contractor shall provide a cost estimate for any identified (non-emergency) issues and initiate maintenance actions estimated to cost less than \$1,000. The contractor shall immediately initiate repairs for emergency actions estimated to cost less than \$5,000. An itemized list of materials for the identified repair shall be provided to the COR within 48 hours of the contractors arrival at the site. The Manual Maintenance for Aloha Microgrid 1 and Aloha Microgrid 2 shall be delivered seven (7) months after the date of award.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO.: A009
2. TITLE OF DATA ITEM: Safe Operations Document
3. SUBTITLE: Safety Assessment Report (SAR)
4. AUTHORITY: DI-SAFT-80102B
5. CONTRACT REFERENCE: 3.5.2
6. REQUIRING OFFICE: RDTA-RS
7. DD250 REQ: LT
8. APP CODE: None
9. DIST. STATEMENT REQUIRED: B
10. FREQUENCY: SEE ITEM 16
11. AS OF DATE: SEE ITEM 16
12. DATE OF FIRST SUB: SEE ITEM 16
13. DATE OF SUBS. SUB: SEE ITEM 16

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

Steven T. Eick, Contracting Officer's Representative, email: steven.t.eick.civ@mail.mil

Rory Thelen, Contract Specialist, email: rory.g.thelen.civ@mail.mil

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

16. REMARKS:

The contractor shall provide a SAR that details the requirements necessary for the safe operation of the MTS for Microgrid during test and field deployment. The SAR shall include a comprehensive hazard analysis and steps to reduce hazards and ensure crew safety including shock and flash hazard analysis. no later than five months after contract order.

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

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

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

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

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

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

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

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

d. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 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. Previously "zipped" files were accepted, but due to security concerns these zipped attachments cannot be received through our mail system. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

(2) 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 and address, and a contact's phone number. Exterior mailing envelopes containing disks must be addressed to the following address

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