### AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

**2. AMENDMENT/MODIFICATION NO.** P00001  
**3. EFFECTIVE DATE** 29-Sep-2011  
**4. REQUISITION/PURCHASE REQ. NO.** NO SPECIFIED  
**5. PROJECT NO. (Applicable)**  
**6. ISSUED BY** DARPA  
**7. ADMINISTERED BY** (if different than item 6)  
**8. NAME AND ADDRESS OF CONTRACTOR** (No., Street, County, State and Zip Code)  
HONEYWELL INTERNATIONAL INC  
3001 SAN MATEO BLVD, NE  
ALBUQUERQUE NM 87113-2227  
**9A. AMENDMENT OF SOLICITATION NO.**  
**9B. DATED (SEE ITEM 11)**  
**10A. MOD. OF CONTRACT/ORDER NO.** HR0011-11-C-0138  
**10B. DATED (SEE ITEM 13)** 23-Sep-2011  
**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 Offer is extended.  
- Offer must acknowledge receipt of this amendment prior to the hour and date specified for receipt of Offer or as amended by one of the following methods:  
  1. By completing Items 9 and 11, and returning copies of the amendment;  
  2. By acknowledging receipt of this amendment on each copy of the offer submitted;  
  3. By separate letter or telegram which includes reference to the solicitation and amendment number. 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. It is the intent of this amendment that you desire to change an offer already submitted, such change may be made by telegram or letter. Provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.  
**12. ACCOUNTING AND APPROPRIATION DATA (If required)**  
**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**  
**14. DESCRIPTION OF AMENDMENT/MODIFICATION** (Organized by UCF section headings, including solicitation/contract subject matter where feasible)  
*Modification Control Number:* evessill11518  
Pursuant to 52.232-22, the purpose of this modification is to incrementally fund $267,000 to CLIN 0001, in accordance to AC No. 862201  

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**15A. NAME AND TITLE OF SIGNER** (Type or print)  
STUARD, NATALY / POO  
**15B. CONTRACTOR/OFFEROR**  
**15C. DATE SIGNED**  
**16A. NAME AND TITLE OF CONTRACTING OFFICER** (Type or print)  
**16B. UNITED STATES OF AMERICA**  
**16C. DATE SIGNED** 29-Sep-2011  

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**STANDARD FORM 30 (Rev. 10-83)**  
Prepared by GSA  
PAR (48 CFR) 53.243  

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**EXCEPTION TO SF 30**  
**APPROVED BY ORM 11-84**  
**30-105-04**
SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

The following have been modified as highlighted in bold:

1) SECTION B - SUPPLIES OR SERVICES AND PRICES

a) SUBCLIN 000102 is added as follows:

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>SUPPLIES/SERVICES</th>
<th>ESTIMATED COST</th>
<th>FIXED FEE</th>
<th>TOTAL EST. COST PLUS FIXED FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>000102</td>
<td>Funding for Avionics Backbone CPFF FOB: Destination AO No. 8822/01</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

ACRN AB $267,000.00

2) SECTION G - CONTRACT ADMINISTRATION DATA

a) Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by $267,000.00 from $500,000.00 to $767,000.00.

b) SUBCLIN 000102:
Funding on SUBCLIN 000102 is initiated as follows:

ACRN: AB

CIN: 000000000000000000000000000000000

Acctng Data: 9710400 1320 8822 P1P30 2525 DPAC 1 5416 S12136 63767E

Increase: $267,000.00

Total: $267,000.00

c) G-6 Incremental Funding

(a) This contract shall be subject to incremental funding with $767,000 presently made available for performance under this contract. It is estimated that the funds presently available are sufficient to permit the Contractor’s performance through February 29, 2012. Except in accordance with the Section I clause FAR 52.232-22, “Limitation of Funds,” no legal liability of the part of the Government for payment of any money in excess of
$767,000 shall arise unless and until additional funds are made available by the Contracting Officer through a modification to this contract.

(End of clause)

3) Except as modified above, the terms and conditions of Contract No. HR0011-11-C-0138 shall remain unchanged and in full force and effect.

(End of Summary of Changes)
**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

**2. AMENDMENT/MODIFICATION NO.**
P00002

**3. EFFECTIVE DATE**
26-Oct-2011

**4. REQUISITION/PURCHASE REQ. NO.**

**5. PROJECT NO.**

**6. ISSUED BY:**
DARPA

**CODE**
HR0011

**7. ADMINISTERED BY:**
DCMA PHOENIX

**CODE**
50002A

**8. NAME AND ADDRESS OF CONTRACTOR**
HONEYWELL INTERNATIONAL INC
9001 SAN MATEO BLVD. NE
ALBUQUERQUE NM 87113-2227

**9A. AMENDMENT OF SOLICITATION NO.**

**9B. DATED (SEE ITEM 11)**

**10A. MOD. OF CONTRACT/ORDER NO.**
HR0011-11-C-0138

**10B. DATED (SEE ITEM 13)**
23-Sep-2011

**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 Offer is extended.
- Offer must acknowledge receipt of this amendment prior to the hour and date specified for receipt of this solicitation or as amended by one of the following methods:
  - By completing Items 8 and 15, and returning copies of the amendment;
  - By acknowledging receipt of this amendment on each copy of the offer submitted;
  - By separate letter or telegram which includes a reference to the solicitation and amendment number. 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. By virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such 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 Schedule

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT ORDERS**

**A. THIS CHANGE ORDER IS ISSUED PURSUANT TO:** (Specify authority) 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 pay office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).

**C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:**

- **D. OTHER (Specify type of modification and authority)**
52.232-22 Limitation of Funds

**E. IMPORTANT: Contractor is not required to sign this document and return copies to the issuing office.**

**14. DESCRIPTION OF AMENDMENT/MODIFICATION**

(Pursuant to FAR 52.232-22, the purpose of this modification is to incrementally fund $406,671 to CLIN 0001, in accordance to AO No. 8670(01).

**Modification Control Number:** evessi1222

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

**15A. NAME AND TITLE OF SIGNER (Type or print)**

**15B. CONTRACTOR/OFFEROR**

**15C. DATE SIGNED**

**16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)**

**16B. UNITED STATES OF AMERICA**

**16C. DATE SIGNED**

**EXCEPTION TO SF 30**

**APPROVED BY ORM 11-84**

**STANDARD FORM 30 (Rev. 10-83)**

**Prescribed by GSA**

**PAR (48 CFR) 53.243**

**PAGE OF PAGES**

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SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

The following have been modified as highlighted in bold:

1) SECTION B - SUPPLIES OR SERVICES AND PRICES

a) SUBCLIN 000103 is added as follows:

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<tr>
<th>ITEM NO</th>
<th>SUPPLIES/SERVICES</th>
<th>ESTIMATED COST</th>
<th>FIXED FEE</th>
<th>TOTAL EST. COST PLUS FIXED FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>000103</td>
<td>Funding for Avionics Backbone CPFF</td>
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<td>$0.00</td>
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<td>POB: Destination</td>
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<td></td>
<td>AO No. 8670/01</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

ACRN AC $406,671.00

2) SECTION G - CONTRACT ADMINISTRATION DATA

a) Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by $406,671.00 from $767,000.00 to $1,173,671.00.

b) SUBCLIN 000103:

Funding on SUBCLIN 000103 is initiated as follows:

ACRN: AC

CIN: 0000000000000000000000000000000000000000

Accting Data: 9720400 1320 8670 P2P30 2525 DPAC 2 5090 S12136 63767E

Increase: $406,671.00

Total: $406,671.00

c) G-6 Incremental Funding

(a) This contract shall be subject to incremental funding with $1,173,671 presently made available for performance under this contract. It is estimated that the funds presently available are sufficient to permit the Contractor’s performance through March 29, 2012. Except in accordance with the Section I clause FAR 52.232-22, “Limitation of Funds,” no legal liability of the part of the Government for payment of any money in excess of $1,173,671 shall arise unless and until additional funds are made available by the Contracting Officer through a modification to this contract.
3) Except as modified above, the terms and conditions of Contract No. HR0011-11-C-0138 shall remain unchanged and in full force and effect.

(End of Summary of Changes)
AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

2. AMENDMENT/MODIFICATION NO.  P00003

3. EFFECTIVE DATE  22-Nov-2011

4. REQUISITION/PURCHASE REQ. NO.  SEE SCHEDULE

5. PROJECT NO. (Applicable)

6. ISSUED BY: DARPA  CODE HH0011

7. ADMINISTERED BY: (Insert item number)  CODE S0302A

8. NAME AND ADDRESS OF CONTRACTOR  (No., Street, County, State and Zip Code)
HONEYWELL INTERNATIONAL INC
9001 SAN MATEO BLVD. NE
ALBUQUERQUE NM 87113-2227

9A. AMENDMENT OF SOLICITATION NO.  X

9B. DATED (SEE ITEM 11)  23-Sep-2011

10A. MOD. OF CONTRACT/ORDER NO.  HH0011-11-C0758

10B. DATED (SEE ITEM 13)  23-Sep-2011

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 offer is extended.

   Offer 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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
   or (c) By separate letter or telegram which includes 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. By virtue of this amendment you desire to change an offer already submitted, such change must be made by telegram or letter provided such telegraphic 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 Schedule

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS
   IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) 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 payment) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.109(B).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)
   52.232-22 Limitation of Funds

E. IMPORTANT: Contractor X 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.)
   Modification Control Number: ewessil2162
   Pursuant to FAR 52.232-22, the purpose of this modification is to incrementally fund $506,664 to CLIN 0001, in accordance with AO No. 8870/02.

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

15A. NAME AND TITLE OF SIGNER  (Type or print)  STUARD, NATALY / P00
   16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)  STUARD, NATALY / P00
   EMAIL: Tina.Stuard@darpa.mil

15B. CONTRACTOR/OFFER OR  □
   15C. DATE SIGNED  22-Nov-2011
   16B. UNITED STATES OF AMERICA
   16C. DATE SIGNED  22-Nov-2011

(Signature of person authorized to sign)
(Signature of Contracting Officer)
The following have been modified as highlighted in bold:

1) SECTION G - CONTRACT ADMINISTRATION DATA

   a) Accounting and Appropriation

      Summary for the Payment Office

      As a result of this modification, the total funded amount for this document was increased by $506,664.00 from $1,173,671.00 to $1,680,335.00.

   b) SUBCLIN 0000103:

      AC: 9720400 1320 8670 P2P30 2525 DPAC 2 5090 S12136 63767E (CIN 00000000000000000000000000000000) was increased by $506,664.00 from $406,671.00 to $913,335.00

   c) G-6 Incremental Funding

      (a) This contract shall be subject to incremental funding with $1,680,335 presently made available for performance under this contract. It is estimated that the funds presently available are sufficient to permit the Contractor’s performance through June 29, 2012. Except in accordance with the Section I clause FAR 52.232-22, “Limitation of Funds,” no legal liability of the part of the Government for payment of any money in excess of $1,680,335 shall arise unless and until additional funds are made available by the Contracting Officer through a modification to this contract.

      (end of clause)

   2) Except as modified above, the terms and conditions of Contract No. HR0011-11-C-0138 shall remain unchanged and in full force and effect.

      (End of Summary of Changes)
AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
P00004

2. AMENDMENT/MODIFICATION NO.
P00004

3. EFFECTIVE DATE
06-Feb-2012

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY
DARPA

CODE
HR0011

7. ADMINISTERED BY (Other than Item 6)

CODE
S0302A

8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)
HONEYWELL INTERNATIONAL INC.
9201 SAN MATEO BLVD., NE
ALBUQUERQUE NM 87112-2227

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

X 10A. MOD. OF CONTRACT/ORDER NO.
HR0011-11-C-0138

10B. DATED (SEE ITEM 13)
X 23-Sep-2011

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 Offer is extended. ☐ is not extended.

Offer 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 amendment; (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 number. 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 value 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 Schedule

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.

IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) 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:

X D. OTHER (Specify type of modification and authority)

52.232-22 Limitation of Funds

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 UCI section headings, including solicitation/contract subject matter where feasible)

Modification Control Number: exasill12460

Pursuant to FAR 52.232-22, the purpose of this modification is to add funds of $1,769,560 which will fully fund CLIN 0001, in accordance with AO No. 8670/03/04 and to revise Section G.

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

15A. NAME AND TITLE OF SIGNER (Type or print)

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

BY (0)[8]

(Signature of Contracting Officer)

EXCEPTION TO SF 30

APPROVED BY ORBM 11-84

STANDARD FORM 30 (Rev. 10-83)

20-405-04

Prescribed by GSA

FAR (48 CFR) 53.243

23-Sep-2011
The following items are applicable to this modification:

SUMMARY OF CHANGES

1) SECTION B - SUPPLIES OR SERVICES AND PRICES

a) SUBCLIN 000104 is added as follows:

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>SUPPLIES/SERVICES</th>
<th>ESTIMATED COST</th>
<th>FIXED FEE</th>
<th>TOTAL EST. COST PLUS FIXED FEE</th>
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<td>000104</td>
<td>Funding for Avionics Backbone CPFF</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
</tbody>
</table>


|_acrn ad                                           | $793,137.00 |

2) SECTION G - CONTRACT ADMINISTRATION DATA

a) Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by $1,769,560.00 from $1,680,335.00 to $3,449,895.00.

b) SUBCLIN 000103:

AC: 9720400 1320 8670 P2P30 2525 DPAC 2 5090 S12136 63767E (CIN 00000000000000000000000000000000) was increased by $976,423.00 from $913,335.00 to $1,889,758.00

c) SUBCLIN 000104:

Funding on SUBCLIN 000104 is initiated as follows:

ACRN: AD

CIN: 00000000000000000000000000000000

Acctng Data: 97 1 0400 56SA SR 6T01 24CM3A 2516 OCDT AMSCO 24CM3A CRN MIPR1ADARRV006 JONO 1D TDVE S23204

Increase: $793,137.00

Total: $793,137.00

d) G-5 252.204-0004 Line Item Specific: by Fiscal Year (SEP 2009)
(a) The payment office will make payment using the oldest fiscal year appropriations first, exhausting all funds in the previous fiscal year before disbursing from the next fiscal year. In the event there is more than one ACRN associated with the same fiscal year, the payment amount shall be disbursed from each ACRN within a fiscal year in the same proportion as the amount of funding obligated for each ACRN within the fiscal year.

(end of clause)

2) Except as modified above, the terms and conditions of Contract No. HR0011-11-C-0138 shall remain unchanged and in full force and effect.

(End of Summary of Changes)
AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

2. AMENDMENT/MODIFICATION NO. P00005

3. EFFECTIVE DATE 03-May-2012

4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE

5. PROJECT NO. (If applicable)

6. ISSUED BY CODE HD0001

7. ADMINISTERED BY (other than item 6) CODE 50302A

8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)
   HONEYWELL INTERNATIONAL INC.
   9201 SAN MATEO BLVD., NE
   ALBUQUERQUE NM 87113-2227

9A. AMENDMENT OF SOLICITATION NO. 03-May-2012

9B. DATED (SEE ITEM 11) 23-Sep-2011

10A. MOD. OF CONTRACT/ORDER NO. HD00011-C-0138

10B. DATED (SEE ITEM 13)

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 Offer 
   - is extended, 
   - is not extended.

   Offer 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 amendment; (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 value 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)

   - A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) 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 date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).
   - C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
   - D. OTHER (Specify type of modification and authority)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
    IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

   - 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)

   Modification Control Number: exasil12844

   Pursuant to FAR 43.103(b), the purpose of this modification is to update Government Points of Contact in Section F and to update clauses in Section 1. Specific changes to the contract are as follows:

   - Excerpt 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)

16B. UNILLUST STATES OF AMERICA

16C. DATE SIGNED by

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

EXCEPTION TO SF 30

APPROVED BY OIRM 11-84

STANDARD FORM 30 (Rev. 10-83)

Prescribed by GSA

FAR (49 CFR) 53.243
The following items are applicable to this modification:

SUMMARY OF CHANGES

The following have been modified as highlighted in bold:

1) SECTION F - DELIVERIES OR PERFORMANCE

a) The following Delivery Schedule item for CLIN 0001 has been changed from:

<table>
<thead>
<tr>
<th>DELIVERY DATE</th>
<th>QUANTITY</th>
<th>SHIP TO ADDRESS</th>
<th>UIC</th>
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</thead>
<tbody>
<tr>
<td>POP 23-SEP-2011 TO</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE</td>
<td>W911W6</td>
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<tr>
<td>23-SEP-2012</td>
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<td>BRIAN C. STEHLE</td>
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<td>FT EUSTUS VA 23604-5577</td>
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<td></td>
<td>(757) 878-3299 EXT 256</td>
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<tr>
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<td>FOB: Destination</td>
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To:

<table>
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<th>DELIVERY DATE</th>
<th>QUANTITY</th>
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<td>MAJ, AV – APM SENSORS AND WEAPONS TECHNOLOGY APPLICATIONS</td>
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<td>PROGRAM OFFICE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BLDG 401 LEE BLVD.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FT EUSTIS VA 23604</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(757) 878-3299 EXT 363</td>
<td></td>
</tr>
<tr>
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<td>FOB: Destination</td>
<td></td>
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</table>

b) The following Delivery Schedule item for CLIN 0002 has been changed from:

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<th>DELIVERY DATE</th>
<th>QUANTITY</th>
<th>SHIP TO ADDRESS</th>
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</thead>
<tbody>
<tr>
<td>POP 23-SEP-2012 TO</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE</td>
<td>W911W6</td>
</tr>
<tr>
<td>23-MAR-2013</td>
<td></td>
<td>BRIAN C. STEHLE</td>
<td></td>
</tr>
<tr>
<td></td>
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<td>BLDG 401 LEE BLVD.</td>
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<tr>
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<td></td>
<td>FT EUSTUS VA 23604-5577</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(757) 878-3299 EXT 256</td>
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<td>FOB: Destination</td>
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c) The following Delivery Schedule item for CLIN 0003 has been changed from:

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<th>UIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>POP 23-SEP-2012 TO 23-MAR-2013</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE JUSTIN HIGHLEY MAJ, AV - APM SENSORS AND WEAPONS TECHNOLOGY APPLICATIONS PROGRAM OFFICE BLDG 401 LEE BLVD. FT EUSTIS VA 23604 (757) 878-3299 EXT 363 FOB: Destination</td>
<td>W911W6</td>
</tr>
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d) The following Delivery Schedule item for CLIN 0004 has been changed from:

<table>
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<th>QUANTITY</th>
<th>SHIP TO ADDRESS</th>
<th>UIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>POP 23-SEP-2012 TO 23-MAR-2013</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE JUSTIN HIGHLEY MAJ, AV - APM SENSORS AND WEAPONS TECHNOLOGY APPLICATIONS PROGRAM OFFICE BLDG 401 LEE BLVD. FT EUSTIS VA 23604 (757) 878-3299 EXT 363 FOB: Destination</td>
<td>W911W6</td>
</tr>
</tbody>
</table>
### e) F-3 Report Distribution

(a) DARPA/STO
Attn: H. Bruce Wallace
3701 North Fairfax Drive
Arlington, VA 22203-1714
Phone: (703) 248-1515
Fax: (703) 696-9781
Email: (Bruce.Wallace@darpa.mil)

(One copy each report)

To:

(a) DARPA/STO
Attn: H. Bruce Wallace
675 North Randolph Street
Arlington, VA 22203-2114
Phone: (703) 248-1515
Fax: (703) 696-9781
Email: (Bruce.Wallace@darpa.mil)
(one copy each report)

(b) DARPA/STO
Attn: Patrick Bailey, ADPM
3701 North Fairfax Drive
Arlington, VA 22203-1714
Phone: (703) 696-5277
Fax: (703) 807-0968
Email: adpm-sto@darpa.mil
(one copy each report)

To:

(b) DARPA/STO
Attn: Patrick Bailey, ADPM
675 North Randolph Street
Arlington, VA 22203-2114
Phone: (703) 696-5277
Fax: (703) 807-0968
Email: adpm-sto@darpa.mil
(one copy each report)

(c) Aviation Applied Technology Directorate
Attn: Justin Highley, COR
MAJ, AV – APM Sensors and Weapons
Technology Applications Program Office
Bldg 401 Lee Blvd.
Ft Eustis VA 23604
Phone: (757) 878-3299 Ext 363
(one copy each report)

(d) DARPA/Research Services
3701 North Fairfax Drive
Arlington, VA 22203-1714
Email: ResearchServices@darpa.mil
(one copy of the Final Technical Report)

To:

(d) DARPA/Research Services
675 North Randolph Street
Arlington, VA 22203-2114
Email: ResearchServices@darpa.mil
(one copy of the Final Technical Report)

(e) Defense Technical Information Center

(1) Email: TR@dtic.mil
(one electronic copy of the Final Technical Report, if unclassified)

OR
2) SECTION I - CONTRACT CLAUSES

The following have been added by reference:

252.227-7025 Limitations on the Use of Disclosure of Government Furnished Information Marked with Restrictive Legends MAR 2011
252.242-7005 Contractor Business Systems FEB 2012

The following have been deleted:

52.223-4 Recovered Material Certification MAY 2008

3) Except as modified above, the terms and conditions of Contract No. HR0011-11-C-0138 shall remain unchanged and in full force and effect.

(End of Summary of Changes)
AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

2. AMENDMENT/MODIFICATION NO. P00006
3. EFFECTIVE DATE 28-JUN-2012
4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE
5. PROJECT NO. (If applicable)

6. ISSUED BY DARPA
   CODE HR0011
   ADMINISTERED BY (Other than Item 6) CODE S0302A

DAWAR
GMO
ATTN: NATALY STUARD
875 N. RANDOLPH ST
ARLINGTON VA 22203-2114

8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)
   HONEYWELL INTERNATIONAL INC.
   9201 SAN MATEO BLVD., NE
   ALBUQUERQUE NM 87113-2227

9A. AMENDMENT OF SOLICITATION NO.
    HR0011-11-C-0138
    DATED (SEE ITEM 11)

9B. DATED (SEE ITEM 11)
   X 23-Sep-2011

10A. MOD. OF CONTRACT/ORDER NO.
   HR0011-11-C-0138
    DATED (SEE ITEM 13)
    X 23-Sep-2011

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS
   X The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offer
   is extended, is not extended.
   Offer 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 amendment;
   (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 ACKNOWLEDGEMENT 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 value of this amendment you desire to change
   an offer already submitted, such change may be made by telegram or letter provided each telegram or letter makes reference
   to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
   IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) 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:
   X D. OTHER (Specify type of modification and authority)
   52.245-1 Government Property

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)
   Modification Control Number: exss112992

Pursuant to 52.245-1, the purpose of this modification is to remove the Government Furnished Equipment (GFE) clause from Sections F & H.

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

15A. NAME AND TITLE OF SIGNER (Type or print)
   NATALY STUARD, NATALY/POO
   TEL:
   EMAIL: Tina.Stuuard@darpa.mil

15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)

15C. DATE SIGNED 28-Jun-2012

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

16B. UNITED STATES OF AMERICA
   BY (Signature of Contracting Officer)

16C. DATE SIGNED 28-Jun-2012

EXCEPTION TO SF 30
APPROVED BY OMB 11-84

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243
The following items are applicable to this modification:

SUMMARY OF CHANGES

The following have been modified as highlighted in bold:

1) SECTION F - DELIVERIES OR PERFORMANCE

a) F-2 Reports and Other Deliverables

(a) Delivery of all reports and other deliverables shall be made to the addressee specified in F-3 entitled “Report Distribution” in accordance with the following:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Due Date (on or before)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLIN 0001</td>
<td>System Analysis and Design</td>
<td>3 Month</td>
</tr>
<tr>
<td></td>
<td>- Common Interface Specification Document</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- System, Software, and SIL requirements definition</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- System Requirements/Design Review documentation</td>
<td></td>
</tr>
<tr>
<td>CLIN 0001</td>
<td>System Development</td>
<td>12 Month</td>
</tr>
<tr>
<td></td>
<td>- System Interface Demonstration in SIL environment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- <strong>SIL functional demonstration with sensor</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- System Requirements document</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- CDR, Phase 1&amp;2 report and Phase 3 Flight Plan</td>
<td></td>
</tr>
<tr>
<td>CLIN 0002</td>
<td><strong>Integration with Sensor and Flight Demonstration</strong></td>
<td>18 Month</td>
</tr>
<tr>
<td></td>
<td>- Flight test demonstration on GF Helicopter with</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- integrated Synthetic Vision Avionics Backbone and sensor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Final Report</td>
<td></td>
</tr>
</tbody>
</table>

(end of clause)

2) SECTION H - SPECIAL CONTRACT REQUIREMENTS

a) The following have been modified:

H-11 Government Furnished Property/Facilities and Services

(a) In accordance with the Section I contract clause entitled “Government Property”, the following property, facilities and/or services shall be provided for use in the performance of this contract.

A government furnished sensor will be provided during the conduct of this program. It is not being identified in this SOW as this effort is intended to be independent of the specific sensor provided. The GFE sensor will be modified to utilize the interface developed by the contractor in phase 1 of this effort. The sensor will be identified once the interface has been defined in at the conclusion of Phase 1.

To:
3) SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

a) The Table of Contents has changed from:

Exhibit/Attachment Table of Contents

<table>
<thead>
<tr>
<th>DOCUMENT TYPE</th>
<th>DESCRIPTION</th>
<th>PAGES</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachment 1</td>
<td>Statement of Work</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attachment 2</td>
<td>IP Assertions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

To:

Exhibit/Attachment Table of Contents

<table>
<thead>
<tr>
<th>DOCUMENT TYPE</th>
<th>DESCRIPTION</th>
<th>PAGES</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachment 1</td>
<td>Revised Statement of Work</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attachment 2</td>
<td>IP Assertions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4) Except as modified above, the terms and conditions of Contract No. HR0011-11-C-0138 shall remain unchanged and in full force and effect.

(End of Summary of Changes)
Statement of Work

This initial phase is to develop the specification for the avionics backbone that will support the CFIT sensor and the multifunction sensor developed in Technical Area 1 while also integrating the information provided by current onboard sensors with high resolution databases to enable precision landing, pilotage and navigation. This would include the possibility of incorporating outputs from the APQ-174B Multi-Mission Radar (MMR) carried by the 160th SOAR which should serve as an emulation of the terrain and weather avoidance features of the multifunction RF sensor developed in Technical Area 1. A necessary outcome from this phase must be a specification for a hardware and data interface that will permit the demonstration of functionality with a sensor in a flight demonstration. Display resolutions should be commensurate with that required for safe pilotage which may approach 1 ft in three dimensions during landing phases. The estimated period of performance for this phase is 3 months.

Phase 2 will be the implementation of the synthetic scene vision avionics backbone to support the survivability and lethality functions of the multifunction RF program. Given the need to interface with existing legacy systems, it will be designed to integrate with an existing display or a helmet mounted display. In order to successfully complete this phase, the proposer must demonstrate interoperability with the available sensors on the MH-60M and well as the sensor that the government will provide. At the completion of this phase, the performer must demonstrate that the synthetic vision system can be successfully integrated into the flight platform and will interoperate successfully with a sensor system developed using the interface specified in TA2, Phase 1. The estimated period of performance for this phase is 9 months after which a decision will be made to integrate the system with the sensor for a flight test and demonstration. This phase will also develop a test plan for phase 3 to demonstrate the synthetic vision system in operation during typical CFIT regimes.

Phase 3 is an optional phase which will be executed if Phase 2 is deemed successful. It will be the flight demonstration of the integration of the synthetic vision avionics backbone with the sensors on board the MH-60M as well as the sensor with the synthetic vision avionics backbone. Final checkout and flight demonstrations, in accordance with the testing planned during Phase 2 will be conducted over a period of 6 months using a GFE aircraft.
**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

2. AMENDMENT/MODIFICATION NO.
   9A0007

3. EFFECTIVE DATE
   21-Sep-2012

4. REQUISITION/PURCHASE REQ. NO.
   SEE SCHEDULE

6. ISSUED BY
   DARPA
   CMD
   ATTN: NATALY STUARD
   676 N. RANDOLPH STREET
   ARLINGTON VA 22203-2114

7. ADMINISTERED BY (If other than item 6)
   CODE
   DCAA PHOENIX
   TWO RENAISSANCE SQUARE
   40 NORTH CENTRAL AVE, SUITE 400
   PHOENIX AZ 85004-4426

8. NAME AND ADDRESS OF CONTRACTOR
   (No., Street, County, State and Zip Code)
   CODE
   HONEYWELL INTERNATIONAL INC.
   9201 SAN MATEO BLVD NE
   ALBUQUERQUE NM 87112-2227

   FACILITY CODE
   07187

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MOD. OF CONTRACT/ORDER NO.
     HR0011-11-C-0138

10B. DATED (SEE ITEM 13)
     23-Sep-2011

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 offer is extended, ☐ is not extended.

   Offer 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 amendment;
   (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
   or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

   IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 19A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).

X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
   By mutual agreement of the parties.

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☑ is required to sign this document and return copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

   Modification Control Number: evessif121266

   Pursuant to FAR 43.103(a), the purpose of this modification is to extend the period of performance for CLIN 0001 through November 30, 2012 and CLIN 0002, Option 1, through June 30, 2013 at an estimated cost to the contract, in accordance with AO No. 8870/08. In addition, the Statement of Work has been revised.

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

15A. NAME AND TITLE OF SINGER (Type or print)
   N. Tina Stuward

15B. (Signature of person authorized to sign)

15C. DATE SIGNED

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
   N. Tina Stuward

16B. (Signature of Contracting Officer)

16C. DATE SIGNED

STANDARD FORM 30 (Rev. 10-83)
Prepared by GSA
FAR (48 CFR) 53.243

APPROVED BY DIRM 11-84
30-105-04

EXCEPTION TO SF 30
The following items are applicable to this modification:

**SUMMARY OF CHANGES**

The following have been modified as highlighted in bold:

1) **SECTION F - DELIVERIES OR PERFORMANCE**

a) The following Delivery Schedule item for CLIN 0001 has been changed from:

<table>
<thead>
<tr>
<th>DELIVERY DATE</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td>POP 23-SEP-2011 TO 23-SEP-2012</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE JUSTIN HIGHLEY MAJ, AV - APM SENSORS AND WEAPONS TECHNOLOGY APPLICATIONS PROGRAM OFFICE BLDG 401 LEE BLVD, FT EUSTIS VA 23604 (757) 878-3299 EXT 363 FOR: Destination</td>
<td>W911W6</td>
</tr>
</tbody>
</table>

To:

<table>
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<th>QUANTITY</th>
<th>SHIP TO ADDRESS</th>
<th>UIC</th>
</tr>
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<tbody>
<tr>
<td>POP 23-SEP-2012 TO 30-NOV-2013</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE JUSTIN HIGHLEY MAJ, AV - APM SENSORS AND WEAPONS TECHNOLOGY APPLICATIONS PROGRAM OFFICE BLDG 401 LEE BLVD, FT EUSTIS VA 23604 (757) 878-3299 EXT 363 FOR: Destination</td>
<td>W911W6</td>
</tr>
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b) The following Delivery Schedule item for CLIN 0002 has been changed from:

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<th>DELIVERY DATE</th>
<th>QUANTITY</th>
<th>SHIP TO ADDRESS</th>
<th>UIC</th>
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</thead>
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<tr>
<td>POP 23-SEP-2011 TO 23-SEP-2012</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE JUSTIN HIGHLEY MAJ, AV - APM SENSORS AND WEAPONS TECHNOLOGY APPLICATIONS PROGRAM OFFICE BLDG 401 LEE BLVD, FT EUSTIS VA 23604 (757) 878-3299 EXT 363 FOR: Destination</td>
<td>W911W6</td>
</tr>
</tbody>
</table>


To:

DELIVERY DATE      QUANTITY      SHIP TO ADDRESS      UIC

POP 30-NOV-2012 TO 30-JUN-2013  N/A  AVIATION APPLIED TECHNOLOGY  W911W6
DIRECTORATE
JUSTIN HIGHLEY
MAJ, AV - APM SENSORS AND
WEAPONS
TECHNOLOGY APPLICATIONS
PROGRAM OFFICE
BLDG 401 LEE BLVD.
FT EUSTIS VA 23604
(757) 878-3299 EXT 363
FOB: Destination

(c) F-1 Term of Contract

(a) The term of the contract commences on the effective date of the contract and continues November 30, 2012.

(b) The period of performance for Options 1, 2, and 3, as set forth in CLINs 0002, 0003, and 0004, shall be from the effective date of the option exercise to and including June 23, 2013.

(End of clause)

2) SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The Table of Contents has changed from:

Exhibit/Attachment Table of Contents

<table>
<thead>
<tr>
<th>DOCUMENT TYPE</th>
<th>DESCRIPTION</th>
<th>PAGES</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachment 1</td>
<td>Revised Statement of Work</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>IP Assertions</td>
<td></td>
<td></td>
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To:
### Exhibit/Attachment Table of Contents

<table>
<thead>
<tr>
<th>DOCUMENT TYPE</th>
<th>DESCRIPTION</th>
<th>PAGES</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachment 1</td>
<td>Revised Statement of Work #2</td>
<td></td>
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</tr>
<tr>
<td>Attachment 2</td>
<td>IP Assertions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3) Except as modified above, the terms and conditions of Contract No. HR0011-11-C-0138 shall remain unchanged and in full force and effect.

(End of Summary of Changes)
Statement of Work

This initial phase is to develop the specification for the avionics backbone that will support the CFIT sensor and the multifunction sensor developed in Technical Area 1 while also integrating the information provided by current onboard sensors with high resolution databases to enable precision landing, pilotage and navigation. This would include the possibility of incorporating outputs from the APQ-174B Multi-Mission Radar (MMR) carried by the 160th SOAR which should serve as an emulation of the terrain and weather avoidance features of the multifunction RF sensor developed in Technical Area 1. A necessary outcome from this phase must be a specification for a hardware and data interface that will permit the demonstration of functionality with a sensor in a flight demonstration. Display resolutions should be commensurate with that required for safe pilotage which may approach 1 ft in three dimensions during landing phases. The estimated period of performance for this phase is 3 months.

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Phase 3 is an optional phase which will be executed if Phase 2 is deemed successful. It will be the flight demonstration of the integration of the synthetic vision avionics backbone with the sensors on board the MH-60M as well as the sensor with the synthetic vision avionics backbone. Final checkout and flight demonstrations, in accordance with the testing planned during Phase 2 will be conducted over a period of 6 months using a CFIT aircraft.
**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

2. **AMENDMENT/MODIFICATION NO.**
   - P00008

3. **EFFECTIVE DATE**
   - 30-Nov-2012

4. **REQUISITION/PURCHASE REQ. NO.**
   - 36-14117

5. **SCHEDULE**
   - SEE SCHEDULE

6. **ISSUED BY**
   - DARPA
   - EMD
   - ATTN: NATALY STUART
   - 879 N. RANDOLPH STREET
   - ARLINGTON VA 22203-2114

7. **ADMINISTERED BY**
   - OMAH PHOENIX
   - TWO RENAISSANCE SQUARE
   - 50 NORTH CENTRAL AVE., SUITE 400
   - PHOENIX AZ 85004-4424

8. **NAME AND ADDRESS OF CONTRACTOR**
   - NAYELI INTERNATIONAL INC.
   - 5201 SAN MATEO BLVD NE
   - ALBUQUERQUE NM 87113-2227

   - CODE: 07187

9. **AMENDMENT OF SOLICITATION NO.**
   - 11A, DATED (SEE ITEM 11)

10. **MODIFICATION/CHANGE ORDER NO.**
    - HR0011-11-C-013B

11. **DATE DATED (SEE ITEM 13)**
    - 23-Sep-2011

12. **FACILITY CODE**
    - CODE S0302A

13. **THIS ITEM ONLY APPLIES TO MODIFICATIONS OF SOLICITATIONS**
    - WHERE THE MODIFICATION IS ISSUED PURSUANT TO:
      - 43.103
      - 43.103(b)
      - 43.103(c)

14. **ACCOUNTING AND Appropriation DATA**
    - (If required)
    - **See Schedule**

15. **This Item Applies Only to Modifications of Contracts/Orders**
    - It modifies the contract/order no. as described in Item 14.

16. **Description of Amendment/Modification**
    - (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
    - Modification Control Number: HR00113144

Pursuant to FAR 52.217-7, the purpose of this modification is to exercise CLIN 0001, Option 1, provide incremental funding to CLIN 0002, and to update CLIN 0001 and 0002 period of performance, in accordance with PR No. HR00113144.

---

**Signature:**
- (Signature of person authorized to sign)
- (Signature of contracting officer)

**Date Signed:**
- 11 Dec 12

**Approved by:**
- OMB 11-84

**STANDARD FORM 30 (Rev. 10-83)**
- Prescribed by CSA
- FAR (48 CFR) 53.243
The following items are applicable to this modification:

**SUMMARY OF CHANGES**

The following have been modified as highlighted in bold:

1) **SECTION A - SOLICITATION/CONTRACT FORM**

   a) The total cost of this contract was increased by $1,099,318.00 from $3,449,895.00 to $4,549,213.00.

2) **SECTION B - SUPPLIES OR SERVICES AND PRICES**

   a) **CLIN 0002**

      The option status has changed from Option to Option Exercised.

   b) **SUBCLIN 000201** is added as follows:

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>SUPPLIES/SERVICES</th>
<th>ESTIMATED COST</th>
<th>FIXED FEE</th>
<th>TOTAL EST. COST PLUS FIXED FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>000201</td>
<td>Funding for Avionics Backbone CPFF</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td></td>
<td>FOB: Destination</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PR No. HR00113144</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACRN AE</td>
<td></td>
<td></td>
<td>$500,000.00</td>
</tr>
</tbody>
</table>

3) **SECTION F - DELIVERIES OR PERFORMANCE**

   a) The following Delivery Schedule item for CLIN 0001 has been changed from:

<table>
<thead>
<tr>
<th>DELIVERY DATE</th>
<th>QUANTITY</th>
<th>SHIP TO ADDRESS</th>
<th>UIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>POP 23-SEP-2011 TO 30-NOV-2012</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE</td>
<td>W911W6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JUSTIN HIGHLEY MAJ, AV - APM SENSORS AND WEAPONS TECHNOLOGY APPLICATIONS PROGRAM OFFICE RLDG 401 LEE BLVD. FT EUSTIS VA 23604 (757) 878-3299 EXT 363 FOB: Destination</td>
<td></td>
</tr>
</tbody>
</table>
### Delivery Date

<table>
<thead>
<tr>
<th>Delivery Date</th>
<th>Quantity</th>
<th>Ship to Address</th>
<th>CIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>POP 23-SEP-2011 TO 07-DEC-2012</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE JUSTIN HIGHTLEY MAJ, AV - APM SENSORS AND WEAPONS TECHNOLOGY APPLICATIONS PROGRAM OFFICE BLDG 401 LEE BLVD. FT EUSTIS VA 23604 (757) 878-3299 EXT 363 FOB: Destination</td>
<td>W911W6</td>
</tr>
</tbody>
</table>

b) The following Delivery Schedule item for CLIN 0002 has been changed from:

<table>
<thead>
<tr>
<th>Delivery Date</th>
<th>Quantity</th>
<th>Ship to Address</th>
<th>CIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>POP 30-NOV-2012 TO 30-JUN-2013</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE JUSTIN HIGHTLEY MAJ, AV - APM SENSORS AND WEAPONS TECHNOLOGY APPLICATIONS PROGRAM OFFICE BLDG 401 LEE BLVD. FT EUSTIS VA 23604 (757) 878-3299 EXT 363 FOB: Destination</td>
<td>W911W6</td>
</tr>
</tbody>
</table>

To:

<table>
<thead>
<tr>
<th>Delivery Date</th>
<th>Quantity</th>
<th>Ship to Address</th>
<th>CIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>POP 08-DEC-2012 TO 19-AUG-2013</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE JUSTIN HIGHTLEY MAJ, AV - APM SENSORS AND WEAPONS TECHNOLOGY APPLICATIONS PROGRAM OFFICE BLDG 401 LEE BLVD. FT EUSTIS VA 23604 (757) 878-3299 EXT 363 FOB: Destination</td>
<td>W911W6</td>
</tr>
</tbody>
</table>
c) F-1 Term of Contract

(a) The term of the contract commences on the effective date of the contract and continues August 19, 2013.

4) SECTION G - CONTRACT ADMINISTRATION DATA

a) Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by $500,000.00 from $3,449,895.00 to $3,949,895.00.

b) SUBCLIN 000201:

Funding on SUBCLIN 000201 is initiated as follows:

ACRN: AE

CLIN: 000000000000000000000000

Acctng Data: 012199 097 0400 000 N 20132014 D 1320 GMRFP 2013.SEN-02.CORE.A

DARPA 255

Increase: $500,000.00

Total: $500,000.00

c) G-7 Incremental Funding

(a) This contract shall be subject to incremental funding with $3,949,895, presently made available for performance under this contract. It is estimated that the funds presently available are sufficient to permit the Contractor's performance through February 15, 2013. Except in accordance with the Section 1 clause FAR 52.232-22, "Limitation of Funds," no legal liability of the part of the Government for payment of any money in excess of $4,175,364 shall arise unless and until additional funds are made available by the Contracting Officer through a modification to this contract.

(b) Specific funding available by CLIN is summarized below:

<table>
<thead>
<tr>
<th>CLIN</th>
<th>Funding Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>$3,449,895</td>
</tr>
<tr>
<td>0002</td>
<td>$500,000</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$3,949,895</td>
</tr>
</tbody>
</table>

(end of clause)

5) Except as modified above, the terms and conditions of Contract No. HR0011-11-C-0138 shall remain unchanged and in full force and effect.

(End of Summary of Changes)
AMENDMENT/MODIFICATION NO. P00009

DATE OF ISSUE 14-Nov-2012

ADMINISTERED BY DARPA CODE HR0011

NAME OF CONTRACT OR ORDER NO. 50302A

NAME AND ADDRESS OF CONTRACTOR HONEYWELL INTERNATIONAL INC.

ADDRESS OF CONTRACTOR RANDOLPH STREET

AMOUNT $725,469

CODE 07187

FACILITY CODE

9A. AMENDMENT NO. P00009

9B. DATED (SEE ITEM 11) X

10A. MOD. OF CONTRACT/ORDER NO. HR0011-11-O-0138

10B. DATED (SEE ITEM 13) X

23-Sep-2011

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 Offer is extended, not extended.

Offer 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 a copy of the amendment; (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 offer. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or telegram, or such offer may be withdrawn by the offeror prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) 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 date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43, 103(3).

X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

52.245-1 (d)(3)(ii) Government Property

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where possible.)

Pursuant to FAR 52.245-1 (d)(3)(ii) Government Property, the purpose of this modification is to incorporate the sensor deleted under P00006 which was to be provided as GFP under CLIN 0005, with an estimated cost of $725,469. As such, CLIN 0005 and CLIN 0006, Option 4, are incorporated and incremental funding is provided to CLIN 0005 in the amount of $725,469, in accordance with AO No. 8570-05. CLIN 0006 will have an estimated cost of $725,469 and a fee of $725,469. Additionally, the Statement of Work is modified and IP assertions are revised.

15A. NAME AND TITLE OF SIGNER (Type or print)

N. Tina Stuard

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

12/19/12

SIGNED BY

STANDARD FORM 30 (Rev. 10-83)

APPROVED BY OIRM 11-84

30-105-04

Proscribed by GSA

FAR (48 CFR) 33.243
SECTION SF 30 BLOCK 14 CONTINUATION PAGE

The following items are applicable to this modification:

SUMMARY OF CHANGES

The following have been modified as highlighted in bold:

1) SECTION A - SOLICITATION/CONTRACT FORM

a) The total cost of this contract was increased by $1,721,522.00 from $4,549,213.00 to $6,270,735.00.

2) SECTION B - SUPPLIES OR SERVICES AND PRICES

a) CLIN 0005 is added as follows:

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>SUPPLIES/SERVICES</th>
<th>ESTIMATED COST</th>
<th>FIXED FEE</th>
<th>TOTAL EST. COST PLUS FIXED FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0005</td>
<td>Flight Test Sensor CPFF</td>
<td></td>
<td></td>
<td>$1,721,522.00</td>
</tr>
<tr>
<td></td>
<td>The contractor shall accomplish the taskings, for the Flight Test Sensor, in accordance with the Statement of Work Paragraph #4. FOB: Destination</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

b) SUBCLIN 000501 is added as follows:

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>SUPPLIES/SERVICES</th>
<th>ESTIMATED COST</th>
<th>FIXED FEE</th>
<th>TOTAL EST. COST PLUS FIXED FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>000501</td>
<td>Funding for Flight Test Sensor CPFF</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
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<tr>
<td></td>
<td>FOB: Destination</td>
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<tr>
<td></td>
<td>ACRN AF</td>
<td></td>
<td></td>
<td>$725,469.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACRN AF</th>
</tr>
</thead>
<tbody>
<tr>
<td>$725,469.00</td>
</tr>
</tbody>
</table>

c) CLIN 0006 is added as follows:
3) SECTION C - DESCRIPTIONS AND SPECIFICATIONS

CLauses Incorporated by Full Text

a) C-1 Scope of Work

(a) The Contractor shall furnish the necessary personnel, materials, facilities, and other services as may be required to perform Contract Line Items CLIN 0001 and 0005, in accordance with the Statement of Work, Attachment 1 hereto. The work and services to be performed hereunder shall be subject to the requirements and standards contained in the Contractor's proposal entitled "Synthetic Vision Avionics Backbone, Multifunction RF program, Technical Area 2 (TA2)", copies of which are in the possession of both parties.

(b) The Contractor shall furnish the necessary personnel, materials, facilities, and other services as may be required to perform Contract Line Items CLINs 0002, 0003, 0004 and 0006, Options 1, 2, 3, and 4 in accordance with the Statement of Work, Attachment 1 hereto. The work and services to be performed hereunder shall be subject to the requirements and standards contained in the Contractor's proposal entitled "Synthetic Vision Avionics Backbone, Multifunction RF program, Technical Area 2 (TA2)", copies of which are in the possession of both parties.

(c) In the event of an inconsistency between the provisions of this contract and the Contractor's proposal, the inconsistency shall be resolved by giving precedence in the following order: (1) the contract, (2) the attachments to the contract, and then (3) the Contractor's proposal.

(end of clause)

4) SECTION F - Deliveries or Performance

a) The following Delivery Schedule item has been added to CLIN 0005:

<table>
<thead>
<tr>
<th>DELIVERY DATE</th>
<th>QUANTITY</th>
<th>SHIP TO ADDRESS</th>
<th>UIC</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>SUPPLIES/SERVICES</th>
<th>ESTIMATED COST</th>
<th>FIXED FEE</th>
<th>TOTAL EST. COST PLUS FIXED FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0006</td>
<td>Additional Flight Test CPFF</td>
<td>$805,757.00</td>
<td>$805,757.00</td>
<td>$805,757.00</td>
</tr>
</tbody>
</table>

The contractor shall accomplish the taskings, for the Flight Test Sensor, Additional Flight Test Option 4, in accordance with the Statement of Work Paragraph #11. FOB: Destination.
b) The following Delivery Schedule item has been added to CLIN 0006:

<table>
<thead>
<tr>
<th>DELIVERY DATE</th>
<th>QUANTITY</th>
<th>SHIP TO ADDRESS</th>
<th>UIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>POP 19-NOV-2012 TO 19-AUG-2013</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE</td>
<td>W911W6</td>
</tr>
<tr>
<td>POP 20-AUG-2013 TO 20-NOV-2013</td>
<td>N/A</td>
<td>AVIATION APPLIED TECHNOLOGY DIRECTORATE</td>
<td>W911W6</td>
</tr>
</tbody>
</table>

(c) F-1 Term of Contract

(a) The term of the contract commences on the effective date of the contract and continues August 19, 2013.

(b) The period of performance for Options 1, 2, and 3, as set forth in CLINS 0002, 0003, and 0004, shall be from the effective date of the option exercise to and including August 19, 2013. The period of performance for Option 4, CLIN 0006, shall be from the effective date of the option exercise of CLIN 0002 through November 20, 2013.

(end of clause)

d) F-2 Reports and Other Deliverables

(e) Delivery of all reports and other deliverables shall be made to the addressee specified in F-3 entitled “Report Distribution” in accordance with the following:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Due Date (on or before)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLIN 0001</td>
<td>System Analysis and Design</td>
<td>3 Month</td>
</tr>
<tr>
<td></td>
<td>- Common Interface Specification Document</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- System, Software, and SIL requirements definition</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- System Requirements/Design Review documentation</td>
<td></td>
</tr>
<tr>
<td>CLIN 0001</td>
<td>System Development</td>
<td>14 Month</td>
</tr>
<tr>
<td></td>
<td>- System Interface Demonstration in SIL environment</td>
<td></td>
</tr>
</tbody>
</table>
of Phase 1 ICD
- SIL functional demonstration with sensor
- System Requirements document
- CDR, Phase 1&2 report and Phase 3 Flight Plan

Functional SIL Demonstration 12/07/2012
End of Phase 2 12/07/2012

CLIN 0002 Integration with Sensor and Flight Demonstration 23 Month
- Flight test demonstration on GP Helicopter with
  integrated Synthetic Vision Avionics Backbone
  and sensor
- Final Report

Start of Phase 3 12/8/2012

CLIN 0005 Flight Test – Completion 8/19/2013

CLIN 0006 Additional Flight Test 11/20/2013

(end of clause)

5) SECTION G - CONTRACT ADMINISTRATION DATA

a) Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by $725,469.00 from $3,949,895.00 to $4,675,364.00.

b) SUBCLIN 000501:
Funding on SUBCLIN 000501 is initiated as follows:

ACRN: AF
CIN: 00000000000000000000000000000000

Accounting Data: 012159 097 0400 000 N 20122913 D 1320 GMRF 2012.SEN-02.CORR.A DARPA 253

Increase: $725,469.00

Total: $725,469.00

c) G-7 Incremental Funding

(a) This contract shall be subject to incremental funding with $4,675,364, presently made available for performance under this contract. It is estimated that the funds presently available are sufficient to permit the Contractor's performance through February 28, 2013. Except in accordance with the Section I clause FAR 52.232-22, "Limitation of Funds," the legal liability of the part of the Government for payment of any money in excess of $4,675,364 shall arise unless and until additional funds are made available by the Contracting Office through a modification to this contract.

(b) Specific funding available by CLIN is summarized below:

<table>
<thead>
<tr>
<th>CLIN</th>
<th>Funding Amount</th>
</tr>
</thead>
</table>

6) SECTION II - SPECIAL CONTRACT REQUIREMENTS

a) 4-10 Small Business Subcontracting Plan and Goals

(a) The Contractor's Small Business Subcontracting Plan, updated September 26, 2012, is incorporated herein and made a part of this contract by reference.

(End of clause)

7) SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The Table of Contents has changed from:

Exhibit/Attachment Table of Contents

<table>
<thead>
<tr>
<th>DOCUMENT TYPE</th>
<th>DESCRIPTION</th>
<th>PAGES</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachment 1</td>
<td>Revised Statement of Work #2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attachment 2</td>
<td>IP Assertions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

To:

Exhibit/Attachment Table of Contents

<table>
<thead>
<tr>
<th>DOCUMENT TYPE</th>
<th>DESCRIPTION</th>
<th>PAGES</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachment 1</td>
<td>Revised Statement of Work #3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attachment 2</td>
<td>Revised IP Assertions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8) Except as modified above, the terms and conditions of Contract No. HR0011-11-C-0138 shall remain unchanged and in full force and effect. This Supplemental Agreement constitutes a full settlement of any claims of the contractor arising out of or in connection with the changes effected hereby.

(End of Summary of Changes)
Statement of Work

This initial phase is to develop the specification for the avionics backbone that will support the CFIT sensor and the multifunction sensor developed in Technical Area 1 while also integrating the information provided by current onboard sensors with high resolution databases to enable precision landing, piloting and navigation. This would include the possibility of incorporating outputs from the APQ-174B Multi-Mission Radar (MMR) carried by the 160th SOAR which should serve as an emulation of the terrain and weather avoidance features of the multifunction RF sensor developed in Technical Area 1. A necessary outcome from this phase must be a specification for a hardware and data interface that will permit the demonstration of functionality with a sensor in a flight demonstration. Display resolutions should be commensurate with that required for safe piloting which may approach 1 ft in three dimensions during landing phases. The estimated period of performance for this phase is 3 months.

Phase 2 will be the implementation of the synthetic scene vision avionics backbone to support the survivability and lethality functions of the multifunction RF program. Given the need to interface with existing legacy systems, it will be designed to integrate with an existing display or a helmet mounted display. In order to successfully complete this phase, the proposer must demonstrate interoperability with the available sensors on the MH-60M. At the completion of this phase, the performer must demonstrate that the synthetic vision system can be successfully integrated into the flight platform and will interoperate successfully with a sensor system developed using the interface specified in TA2, Phase 1. The estimated period of performance for this phase is 9 months after which a decision will be made to integrate the system with the sensor for a flight test and demonstration. This phase will also develop a test plan for phase 3 to demonstrate the synthetic vision system in operation during typical CFIT regimes.

Phase 3 is an optional phase which will be executed if Phase 2 is deemed successful. It will be the flight demonstration of the integration of the synthetic vision avionics backbone with the sensors on board the MH-60M as well as the sensor with the synthetic vision avionics backbone. Final checkout and flight demonstrations, in accordance with the testing planned during Phase 2 will be conducted over a period of 6 months using a GFE aircraft.

Flight Test Sensor (CLIN 0005)

The contractor will manage and support acquisition of the Flight Test Sensor to make necessary sensor modifications, support flight test planning, support system integration and test, aircraft integration, flight test support, and past flight test analysis.

Sensor Modifications

The contractor will modify the current sensor interface to comply with the Technical Area 2 (TA2), Synthetic Vision Avionics Backbone ICD as defined in Synthetic Vision Avionics Backbone (SVAB) Interface Control Document (ICD) 5200673. Sensor software will be modified to automate and acquire commands from the SVAB rather than manual operation from an on-board operator, as is currently performed. Controls for modifying scan patterns, thresholding and other operator functions shall be included in the SVAB interface. At least two modes of operation shall be supported by the updated sensor software: DVE Landing, which may start at a designated landing location; and en
route, which scans forward to identify potential flight hazards and provide moving terrain observations to support SVAB en route correlation and precision navigation functions.

Sensor hardware analyses will be performed to develop the integrated mechanical package. The contractor shall assess the overall package mass properties, center gravity (CG), and power consumption of the sensor. The contractor shall identify an approach which addresses environmental conditions such as thermal management, mechanical stresses, and Electromagnetic Interference/Electromagnetic Compatibility (EMI/EMC).

**Flight Test Planning**
The contractor shall support the customer with flight test planning, including providing details of sensor operation, performance and constraints that impact flight test execution. The contractor shall perform necessary analyses and provide inputs on flight test geometries, targets and flight trajectories to best demonstrate the capabilities and limits of the sensor performance.

**System Integration and Test**
The contractor will perform system integration tests using sensor simulations and/or data to be delivered by the contractor. The contractor shall provide remote support of this SIL testing to address, debug and correct any interface issues identified. Prior to flight test the contractor will perform system integration tests with the physical sensor. The contractor shall deliver the sensor with the modified interface for SIL integration. The contractor shall provide on-site support for integration of the sensor with the SVAB.

**Flight Test Support**
The contractor will provide support for the flight test. The contractor shall deliver a modified flight test sensor to be used for flight testing, shall support sensor installation and integration on the aircraft, size and weight information for Air Worthiness Release (AWR), test execution and troubleshooting, data analysis support and sensor de-installation and recovery. The flight test is expected to last two weeks.

**Program Management**
The contractor will manage the program by monitoring cost and schedule, managing programmatic communications with customers and contractors, and conduct periodic program status meetings with contractor management and technical personnel working the program. The contractor will arrange and facilitate the test readiness review meeting, flight demonstration, and final review meeting. Meeting presentation materials will be provided to DARPA.

**Additional Flight Test (Option – CLIN 0006)**
It is likely that the team of DARPA, TAPO, and the contractor will learn valuable lessons from the Flight Demonstration and may want to adjust or modify the SVAB/Sensor system and perform another flight test. The optional, additional flight test task includes the effort to apply the lessons learned to software modifications on the SVAB and perform another flight test similar to the one performed in Flight Demonstration.
SVAB Updates
The contractor will perform software and hardware engineering analysis, design, and modifications from lessons learned on the Phase 3 flight test. It may include modifications to the MFR flight test software requiring test on the embedded processor prior to the additional flight test.

Flight Demonstrations
The contractor will perform an additional round of flight demonstration, over a period of three months, of the SVAB and sensor in a helicopter to be provided by the customer and at a customer designated test facility/airport. The contractor will provide a VPX-based integration computer system to host the SVAB functionality, the flight test sensor, and the interface with required sensors and other platform equipment. The following tasks will be accomplished:

1) Off-aircraft flight planning and preparations
2) On-aircraft initializations and pre-flight checklist
3) During flight: equipment control according to flight card, recording event data, etc.
4) On-aircraft post-flight shutdown
5) Off-aircraft post-flight analysis and reporting
6) Flight Test Support

Program Management
The contractor will manage the program by monitoring cost and schedule, managing programmatic communications with customers and contractors, and conduct periodic program status meetings with the contractor management and technical personnel working the program. The contractor will arrange and facilitate the test readiness review meeting, flight demonstration, and final review meeting. Meeting presentation materials will be provided to DARPA.
### Amendment of Solicitation/Modification of Contract

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Amendment/Modification No.</td>
<td>P00010</td>
</tr>
<tr>
<td>3. Effective Date</td>
<td>22-Mar-2013</td>
</tr>
<tr>
<td>4. Requisition/Purchase Req. No.</td>
<td></td>
</tr>
<tr>
<td>5. Project No. (If applicable)</td>
<td></td>
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<tr>
<td>6. Issued By</td>
<td>DARPA</td>
</tr>
<tr>
<td>Code</td>
<td>HR0011</td>
</tr>
<tr>
<td>7. Administered By</td>
<td>OCM 40 North</td>
</tr>
<tr>
<td>Code</td>
<td>50032A</td>
</tr>
<tr>
<td>8. Name and Address of Contractor (No., Street, County, State and Zip Code)</td>
<td>Honeywell International Inc. 9201 San Mateo Blvd., NE Albuquerque NM 87113-2227</td>
</tr>
<tr>
<td>9. A. Amendment of Solicitation No.</td>
<td></td>
</tr>
<tr>
<td>10. B. Dated (See Item 11)</td>
<td></td>
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<tr>
<td>11. C. Mod. of Contract/Order No.</td>
<td></td>
</tr>
<tr>
<td>12. D. Dated (See Item 13)</td>
<td>23-Sep-2011</td>
</tr>
<tr>
<td>13. E. Dated</td>
<td>23-Sep-2011</td>
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<tr>
<td>14. F. Dated</td>
<td>23-Sep-2011</td>
</tr>
<tr>
<td>15. G. Name and Title of Signer (Type or Print)</td>
<td></td>
</tr>
<tr>
<td>16. H. Name and Title of Contracting Officer (Type or Print)</td>
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</tr>
<tr>
<td>17. I. Contractor/Offeror</td>
<td></td>
</tr>
<tr>
<td>18. J. Date Signed</td>
<td>22-Mar-2013</td>
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<tr>
<td>Code</td>
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</tbody>
</table>

#### IMPORTANT:
- Contractor X is not required to sign this document and return copies to the issuing office.

#### Description of Amendment/Modification:
- Pursuant to FAR 52.232-22, the purpose of this modification is to provide incremental funding to CLIN 0005, in the amount of $539,001. (FR No. HR90113144-1)

### Exception to SF 30
- Approved by OIRM 11-84

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**Note:** The above information is an example of how a contract amendment might be documented. The actual content would depend on the specific terms and conditions of the contract and the nature of the modification.
The following items are applicable to this modification:

SUMMARY OF CHANGES

The following have been modified as highlighted in bold:

1) SECTION B - SUPPLIES OR SERVICES AND PRICES
   a) SUBCLIN 000502 is added as follows:

<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>SUPPLIES/SERVICES</th>
<th>ESTIMATED COST</th>
<th>FIXED FEE</th>
<th>TOTAL EST. COST PLUS FIXED FEE</th>
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<tbody>
<tr>
<td>000502</td>
<td>Funding for Flight Test Sensor</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
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<td>CPFF</td>
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<tr>
<td></td>
<td>ACRN AE</td>
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<td>$638,001.00</td>
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</tbody>
</table>

2) SECTION G - CONTRACT ADMINISTRATION DATA
   a) Accounting and Appropriation

   Summary for the Payment Office

   As a result of this modification, the total funded amount for this document was increased by $638,001.00 from $4,675,364.00 to $5,313,365.00.

   b) SUBCLIN 000502:

   Funding on SUBCLIN 000502 is initiated as follows:

   ACRN: AE
   CIN: 000000000000000000000000000000000
   Acctng Data: 012199 097 0400 000 N 20132014 D 1320 GMRFP 2013.SEN-02.CORE.A
   DARPA 255
   Increase: $638,001.00
   Total: $638,001.00

   c) G-7 Incremental Funding

   (a) This contract shall be subject to incremental funding with $5,313,365 presently made available for performance under this contract. It is estimated that the funds presently available are sufficient to permit the Contractor's
performance through May 31, 2013. Except in accordance with the Section I clause FAR 52.232-22, “Limitation of Funds,” no legal liability of the part of the Government for payment of any money in excess of $5,313,365 shall arise unless and until additional funds are made available by the Contracting Officer through a modification to this contract.

(b) Specific funding available by CLIN is summarized below:

<table>
<thead>
<tr>
<th>CLIN</th>
<th>Funding Amount</th>
</tr>
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<tbody>
<tr>
<td>0001</td>
<td>$3,449,895</td>
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<tr>
<td>0002</td>
<td>$500,000</td>
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<tr>
<td>0005</td>
<td>$1,363,470</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$5,313,365</td>
</tr>
</tbody>
</table>

(End of clause)

3) Except as modified above, the terms and conditions of Contract No. HR0011-11-C-0138 shall remain unchanged and in full force and effect.

(End of Summary of Changes)