

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO. 1. CONTRACT ID CODE PAGE 1 OF PAGE 4

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| 2. AMENDMENT/MODIFICATION NO. M004 | 3. EFFECTIVE DATE See Block 15c. | 4. REQUISITION/PURCHASE REQ. NO. RES-12-026 11/09/2011 | 5. PROJECT NO. (if applicable) |
| 6 ISSUED BY U.S. Nuclear Regulatory Commission Division of Contracts Attn: Daniel App Mail Stop TWB-01-B10M Washington, DC 20555 | CODE 3100 | 7. ADMINISTERED BY (if other than Item 6) U.S. Nuclear Regulatory Commission Division of Contracts Attn: Daniel App Mail Stop: TWB-01-B10M Washington, DC 20555 | CODE 3100 |

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| 8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) S C & A, INC SANFORD COHEN & ASSOCIATES 1608 SPRING HILL RD STE 400 VIENNA VA 221822241 | (X) | 9A. AMENDMENT OF SOLICITATION NO. |
| | | 9B. DATED (SEE ITEM 11) |
| | X | 10A. MODIFICATION OF CONTRACT/ORDER NO. GS-10F-0093K NRC-HQ-11-F-04-0001 Modification 4 10B. DATED (SEE ITEM 13) 12-17-2010 |
| CODE 071167910 | 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 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.

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| 12. ACCOUNTING AND APPROPRIATION DATA (if required) See CONTINUATION Page | Obligate: \$75,000.00 B&R: 2012-60-34-6-155 JCN: V6151 BOC: 252A APPR NO: 31x0200 NAICS: 541620 PSC: R421 FAIMIS: 120402 APP-12-3964 |
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13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

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| (X) | 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). |
| X | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Mutual Agreement of the Parties Price schedule revision |
| | D. OTHER (Specify type of modification and authority) |

E. IMPORTANT: Contractor is not, is 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 feasible.)

The purpose of this modification is to:
1) Revise Section A.4 "Price Schedule" of the contract to:
a) reduce CLINS 007-012;
b) add CLINS 040 and 041; and
c) correct CLIN number 039
2) Provide incremental funding in the amount of 75,000.00.

****SEE PAGES 2-4 FOR FULL DESCRIPTION OF MODIFICATION.****

Total Obligated Amount: \$265,000.00 (changed)
Total Ceiling Amount: \$361,878.00 (unchanged)
Period of Performance: 12/17/2010 - 12/16/2013 (unchanged)

All other terms and conditions under this contract remain unchanged.
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.

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| 15A. NAME AND TITLE OF SIGNER (Type or print) Laurie Loomis, VP | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Jennifer DeFino Contracting Officer |
| 15B. CONTRACTOR/OFFEROR <i>[Signature]</i> (Signature of person authorized to sign) | 15C. DATE SIGNED 11/16/11 |
| 18B. UNITED STATES OF AMERICA BY <i>[Signature]</i> (Signature of Contracting Officer) | 18C. DATE SIGNED 11/16/2011 |

The purpose of this modification is to:

- (1) Revise Section A.4 PRICE SCHEDULE to:
 - a) Decrease CLINs 007-012 (Task 2: Collect/Analyze Dose Distributions) by \$25,897.
 - b) Add CLINs 040 to allow CRCPD to provide assistance to SC&A in the collection of information on impacts of implementing certain recommendations contained in the International Commission on Radiological Protection Publication 103 and put that information into a report, for a cost of \$8,858.
 - c) Add CLIN 041 to allow the Radiation Protection Program at Columbia University Medical Center to obtain process and provide SC&A with detailed radiation exposure data for a cost of \$17,039.
 - d) Correct CLIN 039 from modification 2.

- (2) Provide incremental funding in the amount of \$75,000, thereby increasing the obligated amount from \$190,000 to \$265,000.

Accordingly, the contract is modified as follows:

- 1) Delete Section A.4 PRICE SCHEDULE in its entirety and replace with the following:

"A.4 PRICE SCHEDULE

Base Period: Date of award for thirty six months

Task 1: Kick-off meeting

| CLIN | Labor Category | Contractor's GSA Labor Category | Estimated Hours | Total Labor Estimate per Category |
|--|------------------------|---------------------------------|-----------------|-----------------------------------|
| 001 | Principal Investigator | Subject Matter Exp | [REDACTED] | \$ [REDACTED] |
| 002 | Asst Principal | Sr. Management | [REDACTED] | \$ [REDACTED] |
| 003 | Sr. Tech Staff | Technical Expert | [REDACTED] | \$ [REDACTED] |
| 004 | Tech Staff | Technical Staff | 0 | \$ 0 |
| 005 | Jr. Tech Staff | Jr Researcher | 0 | \$ 0 |
| 006 | Secretary | Clerical | 0 | \$ 0 |
| TOTAL TASK 1 LABOR NOT TO EXCEED ESTIMATE | | | | \$4,874.00 |

Task 2: Collect/Analyze Dose Distributions

| CLIN | Labor Category | Contractor's GSA Labor Category | Estimated Hours | Total Labor Estimate per Category |
|--|------------------------|---------------------------------|-----------------|-----------------------------------|
| 007 | Principal Investigator | Subject Matter Exp | [REDACTED] | \$ [REDACTED] |
| 008 | Asst Principal | Sr. Management | [REDACTED] | \$ [REDACTED] |
| 009 | Sr. Tech Staff | Technical Expert | [REDACTED] | \$ [REDACTED] |
| 010 | Tech Staff | Technical Staff | [REDACTED] | \$ [REDACTED] |
| 011 | Jr. Tech Staff | Jr Researcher | [REDACTED] | \$ [REDACTED] |
| 012 | Secretary | Clerical | [REDACTED] | \$ [REDACTED] |
| TOTAL TASK 2 LABOR NOT TO EXCEED ESTIMATE | | | | \$50,943.00 |

Task 3: Update Reports

| CLIN | Labor Category | Contractor's GSA Labor Category | Estimated Hours | Total Labor Estimate per Category |
|------|------------------------|---------------------------------|-----------------|-----------------------------------|
| 013 | Principal Investigator | Subject Matter Exp | [REDACTED] | \$ [REDACTED] |
| 014 | Asst Principal | Sr. Management | [REDACTED] | \$ [REDACTED] |

| | | | | |
|--|----------------|------------------|------------|--------------------|
| 015 | Sr. Tech Staff | Technical Expert | [REDACTED] | \$ [REDACTED] |
| 016 | Tech Staff | Technical Staff | [REDACTED] | \$ [REDACTED] |
| 017 | Jr. Tech Staff | Jr Researcher | [REDACTED] | \$ [REDACTED] |
| 018 | Secretary | Clerical | [REDACTED] | \$ [REDACTED] |
| TOTAL TASK 3 LABOR NOT TO EXCEED ESTIMATE | | | | \$69,268.00 |

Task 4: Analyze Potential Impacts

| CLIN | Labor Category | Contractor's GSA Labor Category | Estimated Hours | Total Labor Estimate per Category |
|--|------------------------|---------------------------------|-----------------|-----------------------------------|
| 019 | Principal Investigator | Subject Matter Exp | [REDACTED] | [REDACTED] |
| 020 | Asst Principal | Sr. Management | [REDACTED] | [REDACTED] |
| 021 | Sr. Tech Staff | Technical Expert | [REDACTED] | [REDACTED] |
| 022 | Tech Staff | Technical Staff | 0 | \$ 0 |
| 023 | Jr. Tech Staff | Jr Researcher | [REDACTED] | [REDACTED] |
| 024 | Secretary | Clerical | [REDACTED] | \$ [REDACTED] |
| TOTAL TASK 4 LABOR NOT TO EXCEED ESTIMATE | | | | \$83,578.00 |

Task 5: Operating Reactors – Expand Data Collection

| CLIN | Labor Category | Contractor's GSA Labor Category | Estimated Hours | Total Labor Estimate per Category |
|--|------------------------|---------------------------------|-----------------|-----------------------------------|
| 025 | Principal Investigator | Subject Matter Exp | [REDACTED] | [REDACTED] |
| 026 | Asst Principal | Sr. Management | [REDACTED] | [REDACTED] |
| 027 | Sr. Tech Staff | Technical Expert | [REDACTED] | [REDACTED] |
| 028 | Tech Staff | Technical Staff | 0 | \$ 0.00 |
| 029 | Jr. Tech Staff | Jr Researcher | [REDACTED] | [REDACTED] |
| 030 | Secretary | Clerical | [REDACTED] | [REDACTED] |
| TOTAL TASK 5 LABOR NOT TO EXCEED ESTIMATE | | | | \$45,520.00 |

Task 6: Operating Reactors – Update NUREG/CR-6112

| CLIN | Labor Category | Contractor's GSA Labor Category | Estimated Hours | Total Labor Estimate per Category |
|--|------------------------|---------------------------------|-----------------|-----------------------------------|
| 031 | Principal Investigator | Subject Matter Exp | [REDACTED] | [REDACTED] |
| 032 | Asst Principal | Sr. Management | [REDACTED] | [REDACTED] |
| 033 | Sr. Tech Staff | Technical Expert | [REDACTED] | [REDACTED] |
| 034 | Tech Staff | Technical Staff | 0 | \$ 0.00 |
| 035 | Jr. Tech Staff | Jr Researcher | [REDACTED] | [REDACTED] |
| 036 | Secretary | Clerical | [REDACTED] | [REDACTED] |
| TOTAL TASK 6 LABOR NOT TO EXCEED ESTIMATE | | | | \$47,076.00 |

Task 7: Provide Monthly Reports

| CLIN | Labor Category | Quantity | Unit | Unit Price | Total Price |
|------------------------------|-----------------|----------|---------|------------|--------------------|
| 037 | Monthly Reports | 36 | Monthly | [REDACTED] | [REDACTED] |
| TOTAL TASK 7 ESTIMATE | | | | | \$18,720.00 |

Travel:

| TRAVEL ESTIMATE | | |
|------------------------|--|-------------|
| CLIN | | |
| 038 | Travel (Cost Reimbursable) The government will pay up to the rates specified in the Government Federal Travel Regulations (FTR) for travel destination. NO PAYMENT WILL BE MADE WITHOUT BACKUP DOCUMENTATION/RECEIPTS. All travel must be approved in advance by the NRC Contracting Officer. | [REDACTED] |
| Estimated Total Travel | | \$11,456.00 |

| OTHER DIRECT COSTS | | |
|---------------------------|--|-------------|
| CLIN | OPEN MARKET | |
| 039 | 6 Reports: Mirion Technologies | [REDACTED] |
| 040 | CRCPD: Provide report on International Commission on Radiological Protection Publication 103 | [REDACTED] |
| 041 | Columbia University: Radiation exposure data questionnaire | [REDACTED] |
| TOTAL COSTS | | \$30,441.00 |

Total Estimated Contract Price: \$ 361,878.00

2) Revise Section A.5 CONSIDERATION AND OBLIGATION – LABOR HOURS to the following:

“A.5 CONSIDERATION AND OBLIGATION – LABOR HOURS

- (a) The total estimated amount of this contract (ceiling) for the products/services ordered, delivered, and accepted under this contract is **\$ 361,878.00**.
- (b) The amount presently obligated with respect to this contract is **\$ 265,000.00**. This obligated amount may be unilaterally increased from time to time by the Contracting Officer by written modification to this contract. The obligated amount shall, at no time, exceed the contract ceiling as specified in paragraph (a) above. When and if the amount(s) paid and payable to the Contractor hereunder shall equal the obligated amount, the Contractor shall not be obligated to continue performance of the work unless and until the Contracting Officer shall increase the amount obligated with respect to this contract. Any work undertaken by the contractor in excess of the obligated amount specified above is done so at the Contractor's sole risk. “