

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE	PAGE OF PAGES 1 4
2. AMENDMENT/MODIFICATION NO. 0002	3. EFFECTIVE DATE 15 November 2022	4. REQUISITION/PURCHASE REQ.	5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE DEFENSE LOGISTOCS AGENCY- ENERGY 8725 JOHN J KINGMAN RD STE 3827 FT BELVOIR VA 22060-6222 USA		7. ADMINISTERED BY (If other than Item 6) CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)			(X)	9A. AMENDMENT OF SOLICITATION NO. SP0604-22-R-0421
			<input checked="" type="checkbox"/>	9B. DATED (SEE ITEM 11) 26 September 2022
			<input type="checkbox"/>	10A. MODIFICATION OF CONTRACT/ORDER NO.
			<input type="checkbox"/>	10B. DATED (SEE ITEM 13)
CODE	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 to \_\_\_\_\_ 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 \_\_\_\_\_ 1 (One) 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 APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.  
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	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.
<input type="checkbox"/>	
<input type="checkbox"/>	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).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

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

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

See Continuation Page

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Andrea L Kincaid	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED

1. The changes set forth herein are incorporated into Solicitation SP0604-22-R-0421.

### **Section B**

2. Page 9, Section B.1.2 Acronyms is hereby amended to the following:
  - “Klbs” means thousands of pounds
  - “Mlbs.” means million pounds.
3. Page 12-15, Section B.2.1 Estimated Contract Value. The following tables are hereby amended:
  - Table 1 – Contract Value Summary
  - Table 2 – CLIN 0001, Electricity Pricing and Production
  - Table 3 – CLIN 0002, Steam Pricing and Production
4. Page 12, Section B.2.2 CLIN 0001 Description is hereby amended to the following:
  - CLIN 0001 consists of construction of an on-site nuclear micro-reactor EPF and its provision, testing, operation, management, maintenance, and eventual removal. CLIN 0001 also includes the delivery of approximately 39,420,000 kwh of electricity annually (subject to change given offeror’s proposal) to the interconnection point, ancillary services, energy security and resilience (refer to Section C.18, Energy Security and Resilience), and all associated environmental attributes produced by the EPF. Deliveries shall commence on the COD and continue through the contract term, less that portion of the term used for removal of the EPF. The contract term includes a construction period of up to seven (7) years and a removal and restoration period of up to three (3) years (subject to change given offeror’s proposal) to commence on the contract effective date. The firm fixed unit prices and estimated quantities for each production year are in Table 2—CLIN 0001, Electricity Pricing and Production.

### **Section C**

5. Page 20, Section C.12.1 Industry Standards is hereby amended to the following:
  - The EPF shall conform to applicable industry standards as set forth by 10 CFR; NRC Regulatory Guides; EPA PAG for Radiological Incidents; ASTM; IEEE 1547, 1703, and 1584; IEC 61558; UL; UFCs including but not limited to 1-200-01, 3-550-01 section 3.10; 3-540-01, 3-540-07, 3-550-01, 3-550-04 and NEC.
6. Page 22-23, Section C.14.3 Outages and Isolation is hereby amended to the following:
  - In the event of a power outage at the substation or from the UDC, the Contractor shall continue to operate the EPF while the CHP is operational. If the CHP and UDC are both non-operational, the EPF will isolate itself from the installation’s distribution system and will continue in this operational state until:
    - 1) The installation’s electrical distribution system is restabilized by either the UDC or CHP
    - 2) The EPF is performing black start activities in support of the CHP

Contractor shall ensure that the EPF can provide grid-forming activities in the absence of UDC and CHP for future electrical distribution projects which may allow the EPF to supply a section of the installation without the presence of both UDC or CHP per C.13.3.

7. Page 23, Section C.14.5.1 General Steam Requirements is hereby amended to the following:
  - The Contractor shall ensure dry steam must enter the steam distribution system at approximately 100 pounds per square inch (psi) of pressure and at a temperature of 430 – 450 degrees Fahrenheit. The EPF must be capable of normal operation capacity between 20,000 – 75,000 pounds mass per hour (lbm/hr) of steam. Additional information regarding the existing steam infrastructure at the installation can be found under Proposal Reference Document PR5, Existing CHP and Steam Infrastructure.

### Section J

8. Page 81-81, Section J, Lists of Documents, Exhibits, and Other Amendments, is hereby amended to update/add the following attachments:
- Attachment PR1 – NRC Regulations and Standard Micro-reactor Rev1
  - Attachment PR9 – Gen Switchgear Bldg., Cable Tray
  - Attachment PR10 – Microreactor Suitable Locations
  - Attachment PR11 – SWG Layout
  - Attachment PR12 – Base Maps and Drawings
  - Attachment PR13 – Gen Single Line Diagram

### Section L

9. Page 83-84, Section L.4.2.3 Proposed Organizational/Limits is hereby amended to increase the maximum page limit for Volume II Past Performance to 30 pages.
10. Page 84, Section L.4.2.4 Pages and Typing is hereby amended to exclude the GANTT style schedule and Attachment JA7 in the maximum page limit as follows:
- Each page shall be counted except for the following: cover pages, table of contents, cross-reference matrix, tabs, glossaries, CAD drawings, GANTT style schedule, Attachment JA7 and exceptions. The front and back of pages printed on each side are counted as separate pages.
11. Page 89-91, Section L.7.1.3.1 Volume I/Factor – Technical Capability, the following sections are hereby amended:
- **1. Production.** The Offeror shall propose a system that can produce electricity and steam able to meet the requirements as set forth in B.2. and is able to meet a baseload electricity demand of 5MWe. The Offeror shall submit an hourly system output profile in the form of a table, populated with the projected electrical and steam output of the proposed EPF in kilowatt-hours (kWhs) and pounds of steam per hour (kLbs/hr), respectively. The Offeror shall use Attachment JA7, EPF Electricity and Steam Production, Hourly Production Data and Pricing Schedules for submission of output data. The Offeror shall specify the EPF solution and provide any data applicable to such solution that shall be utilized to support the Government requirements. Offerors shall thoroughly explain the methodology used to develop the output profile, including an explanation of any tools or software packages used and all key assumptions.
  - **2. Implementation Plan.**  
(c) If not previously submitted, after NOITA selection, the Contractor shall submit their application to the NRC within 45 days that complies with this solicitation.
  - **3. Conceptual Design**  
(i) If applicable, evidence of any documentation/applications previously submitted to the NRC.
12. Page 95, Section L.7.4.1 Volume IV/Factor – Contract Documentation, the following sections are hereby amended:
- (g) Completed and signed Subcontracting Plan. Attachment JA4

### Section M

13. Page 99, Section M.2.2 Contingencies of NOITA. Is hereby amended to add the following language:
- (b) As applicable, Licensure/Permit and approval from the NRC on the resource design.
    1. Within 45 days of NOITA issuance, submission of the Contractor’s application to the NRC

### Other Changes

14. The Amendment incorporates the following additional information:

- Requests for Information (Group 2) submitted to the solicitation, along with the Government's response.