

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 0216	3. EFFECTIVE DATE 09/09/2020	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY Idaho Operations Office Idaho Operations U.S. Department of Energy Idaho Operations Idaho Falls ID 89415	CODE 892432	7. ADMINISTERED BY (If other than Item 6) Idaho Operations U.S. Department of Energy Idaho Operations 1955 Fremont Avenue MS 1221 Idaho Falls ID 83415	CODE 00701
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) FLUOR IDAHO, LLC Attn: AMANDA JORDAN 1070 RIVERWALK DRIVE, SUITE 201 IDAHO FALLS ID 83402		(x)	9A. AMENDMENT OF SOLICITATION NO.
CODE 968795604			9B. DATED (SEE ITEM 11)
FACILITY CODE		x	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-EM0004083
			10B. DATED (SEE ITEM 13) 02/04/2016

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 electronic communication 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 virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication 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 ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE 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. Section I.100 FAR 52.243-2 Changes - Cost Reimbursement (Aug 1987) Alternate II and III (A
	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:
	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.)

DUNS Number: 968795604

The purpose of this modification is to issue a unilateral change order for CLIN-1 work scope. A not-to-exceed (NTE) amount is included as described in the continuation page incorporated as part of this modification. The Contractor is directed to continue operations in accordance with contract Section B.2.

Payment:

OR for Idaho
U.S. Department of Energy
Oak Ridge Financial Service Center
P.O. Box 6017
Oak Ridge TN 37831

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A 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) Jennifer K. Cate	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA Signature on File (Signature of Contracting Officer)	16C. DATE SIGNED 09/09/2020

Previous edition unusable

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-EM0004083/0216

PAGE OF
2 2

NAME OF OFFEROR OR CONTRACTOR
FLUOR IDAHO, LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Period of Performance: 06/01/2016 to 05/31/2021				

The purpose of this modification is to issue a unilateral change order adding work scope to Section C.3.0. This revision is being made under the authority of contract clauses B.15 *Advance Understanding – Changes to Cost and Fee* and I.100 52.243-2 *Changes – Cost Reimbursement (Aug 1987) – Alt II and III (Apr 1984)*.

Effective September 9, 2020, the Contractor is authorized a not to exceed (NTE) amount of \$425K in direct costs for the work under this modification (per Contracting Officer letter dated September 9, 2020). Funding for this NTE is currently available to support this action. The NTE does not include the overhead allocation from CLIN-1. Fluor Idaho shall invoice fully burdened costs. Once negotiations are finalized, the contract will be revised accordingly as part of the definitized modification. The cost and schedule estimate shall comply with all applicable terms of the contract including but not limited to Section B.15 *Advance Understanding – Changes to Cost and Fee* and Section I.101, 52-243-6 *Change Order Accounting (Apr 1984)*. This NTE is subject to Section B.12 *Obligation and Availability of Funds*.

The issuance of this modification confirms the change order issued by Contracting Officer letter CLN201597 dated September 9, 2020. This letter, which includes the scope of work, is incorporated with this modification.

No other changes to the contract terms and conditions.

DOE/ICP CONTRACT CHANGE REQUEST FORM

Title: IWTU:DMR Vessel Analysis/Extent of Conditions for Other Vessels

Additional approval may be required for contract actions anticipated to be greater than the HCA threshold (\$25M)

Concurrence/Approval

INTEGRATED PROJECT TEAM (IPT)/SUBJECT MATTER EXPERTS (SME)

Prepared by (may be multiple):

1. Trent Neville Date: September 3, 2020
Technical
2. Agnes Gentillon Date: September 3, 2020
Project Controls
3. _____ Date: _____
Additional (if needed) (example: Supervisor)

ICP ASSISTANT MANAGER

Concur Non-Concur

Comments/Actions: _____

Print: Joel Case

Signature: Joel Case Digitally signed by Joel Case
Date: 2020.09.03 13:27:19 -06'00' Date: 3 September 2020

PROJECT CONTROLS SUPERVISOR

Concur Non-Concur

Comments/Actions: Assumes this is not incremental costs as labor for IWTU is adequately staffed to perform the scope.
Also assumes adequate FY 2021 funding levels similar to FY 2020

Print: Schyler Walker

Signature: Schyler Walker Digitally signed by Schyler Walker
Date: 2020.09.09 08:53:58 -06'00' Date: September 9, 2020

ICP MANAGER/DEPUTY MANAGER

Approve Disapprove

Comments/Actions: _____

Print: Connie Flohr/Mark Brown

Signature: Mark C. Brown Digitally signed by Mark C. Brown
Date: 2020.09.08 16:07:54 -06'00' Date: September 8, 2020

CONTRACTING OFFICER

Approve Disapprove

Comments/Actions: _____

Print: Jennifer Cate

Signature: JENNIFER CATE Digitally signed by JENNIFER CATE
Date: 2020.09.09 09:33:55 -06'00' Date: September 9, 2020

All contract actions are subject to funding availability – for planning purposes only

DOE/ICP CONTRACT CHANGE REQUEST FORM

1: Brief Description of Change

- 1.1 **Title:** DMR Vessel Analysis/Extent of Conditions for Other Vessels
- 1.2 **Brief description of scope requirement(s) (detailed description on page 4):**
An updated DMR Structural Analysis (and an extent of conditions on remaining vessels) needs done to address potential over-stress conditions found in the DMR following the discovery of missing spacers during installation of recent modifications.
- 1.3 **Section of the contract being modified (ex: Section C.7.0):** C.6.1.10
- 1.4 **Requested Contracting Officer (CO) Course of Action (check one):**
- Request for Proposal (RFP) – (Bilateral) **Preferred contracting approach**
 - Change Order – Justification (Unilateral)
 - Requested not to exceed (NTE) value: \$ \$500,000
 - Response to Request for Equitable Adjustment (REA) – Date received from contractor: _____ (Contractor Initiated)
 - Other – Explain: _____

2: Additional Required Information

- 2.1 **Contract Line Item Number(s) (CLIN) impacted by this work (for ICP Core):**
- CLIN-1 CLIN-2 CLIN-3 CLIN-6
- Project Baseline Summary (PBS):**
- PBS12 PBS13 PBS14 PBS30 Other
- Projected Period of Performance (POP) (during contract period through 5/31/2021):
- Anticipated start date: Immediate
- Anticipated completion date: December 2020
- Final completion date if scope is extended beyond the POP: _____
- 2.2 **Will work be deferred or de-scoped (with consideration) from the contract as a result of adding this scope of work?**
- No Yes (explain below)
- 2.3 **Are there impacts to the current Schedule, Annual, or Performance milestones (for ICP Core)?**
- No Yes (explain below)

Definitions:

RFP – Request for Proposal (DOE initiated change) (synonym with Cost and Schedule Estimate)

Change Order – Authorizing work with an NTE value before the Contractor has submitted a proposal and scope has been negotiated.

NTE – Not to Exceed dollar value to begin work in parallel with the requested cost and schedule estimate

IGCE – Independent Government Cost Estimate

ROM – Rough Order of Magnitude

POP – Period of Performance

REA – Request for Equitable Adjustment (initiated by the Contractor)

All contract actions are subject to funding availability – for planning purposes only

DOE/ICP CONTRACT CHANGE REQUEST FORM

3: Justification and Required Documentation (select A, B, C, or D)

DOE Directed:

3.1 If the CO Course of Action is:

A) RFP/Contract Change – (Bilateral Action). Page 4 must include the following:

- 1. Draft Performance Work Statement (PWS)
- 2. Deliverables/Assumptions/Risks
- 3. Schedule or due date for scope completion (refer to 2.1)
- 4. Justification for the requested change to the contract
- 5. IGCE (Informal [ROM] < \$10M; Formal > \$10M)

To the extent possible, the DOE team shall coordinate with the Contractor team to establish a joint understanding of the scope requirement before the CO issues an RFP. Once the RFP is issued, DOE may coordinate/finalize the PWS with the Contractor as part of the kick-off process.

B) Change Order (Unilateral Action). Page 4 must include the following:

- 1. Draft PWS
- 2. Deliverables/Assumptions/Risks
- 3. Schedule or due date for scope completion (refer to 2.1)
- 4. Justification for the requested change to the contract
- 5. IGCE (Informal [ROM] < \$10M; Formal > \$10M)
- 6a. Justification documenting urgency and/or harm to the Government if the work is not authorized immediately.
- 6b. Include an NTE value and document the basis for the NTE value.

If approved, the CO will issue a unilateral modification with an NTE value. The IGCE/ROM shall be used to establish the NTE value for the action. DOE and Contractor shall immediately begin finalizing the PWS in order to definitize within 180 days from issuance of the NTE.

Contractor Directed:

C) REA (Contractor initiated change). In a separate Word document, attach the following:

- 1. Merit determination and justification for affirming the request in form of a final determination
- 2. PWS confirmation
- 3. Deliverables/Assumptions/Risks
- 4. Schedule or due date for scope completion (refer to 2.1)

If the recommendation is to accept the REA, a technical and cost evaluation will be completed followed by negotiation and a subsequent bilateral contract modification. CO shall provide notice to the Contractor within 15 days of receipt of the REA.

If the recommendation is to deny the REA based on a written determination that the request lacks merit, provide the justification for the denial in sufficient detail. The CO shall provide notice to the Contractor within 15 days of receipt of the REA.

D) Other (explain):

DOE/ICP CONTRACT CHANGE REQUEST FORM

Scope Requirement (Use a separate sheet if necessary)

(1 – 5 below are applicable to 3.1.A and 3.1.B, page 3)

1. Draft Performance Work Statement:

A structural analysis is needed on IWTU's Denitration Mineralization Reformed (DMR) vessel. This analysis will require building a new model in Abacus that analyzes the whole DMR vessel. The IWTU Project is anticipating field modifications to the lower lateral supports on the DMR vessel based on the analysis results.

In addition, IWTU Engineering will perform an extent of conditions on other IWTU vessels. The scope of the EOC is a review of IWTU's original structural analysis documented in the O'Donnell Report (OCE-06-449-1). This EOC has started and the PGF vessel has also been identified as having the same structural issue as the DMR.

2. Deliverables/Assumptions/Risks:

Abacus DMR vessel structural analysis and technical resolution regarding missing spacer
Additional vessel analysis based on extent of conditions results

3. Additional Schedule Details (not included on page 2, Section 2.1):

This work needs to be completed before the end of Outage J and the facility is operated again.

4. Justification for the requested change to the contract:

To address over-stress area, the DMR structural analysis needs to be redone & remaining vessels need evaluated to determine the extent of conditions.

5. IGCE (refer to page 5) – *Internal to DOE*

If directing a Unilateral Change Order (3.1.B):

6a. Provide a justification documenting the urgency and/or harm to the Government if the work is not authorized immediately

Further delays to commencing the confirmatory run following the completion of Outage J which would also delay commencing radiological operations.

6b. Include an NTE value and document the basis for the NTE value.

\$500,000 to avoid schedule impacts to Outage J completion while completing detailed cost estimate