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<tr>
<th>1. CONTRACT ID CODE</th>
<th>2. AMENDMENT/MODIFICATION NO.</th>
<th>3. EFFECTIVE DATE</th>
<th>4. REQUISITION/PURCHASE REQ. NO.</th>
<th>5. PROJECT NO. (If applicable)</th>
<th>6. ISSUED BY</th>
<th>7. ADMINISTERED BY (If other than Item 6)</th>
<th>8. NAME AND ADDRESS OF CONTRACTOR</th>
<th>9. AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</th>
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<td>1070 RIVERWALK DRIVE, SUITE 201</td>
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**10. DESCRIPTION OF AMENDMENT/MODIFICATION**

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.

**15A. NAME AND TITLE OF SIGNER**

Jennifer K. Cate

**16A. NAME AND TITLE OF CONTRACTING OFFICER**

Signature on File
<table>
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<tr>
<th>ITEM NO.</th>
<th>SUPPLIES/SERVICES</th>
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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:** WTW/DMR Vessel Analysis/Extent of Conditions for Other Vessels

---

**Concurrence/Approval**

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

<table>
<thead>
<tr>
<th>Prepared by (may be multiple):</th>
<th>Date:</th>
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<tbody>
<tr>
<td>1. Trent Neville</td>
<td>September 3, 2020</td>
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<tr>
<td>Technical</td>
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<tr>
<td>2. Agnes Gentillon</td>
<td>September 3, 2020</td>
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<td>Project Controls</td>
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<tr>
<td>3.</td>
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<tr>
<td>Additional (if needed) (example: Supervisor)</td>
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**ICP ASSISTANT MANAGER**

- **Concur**
- **Non-Concur**

Comments/Actions: 

Print: Joel Case

Signature: Joel Case

Digitally signed by Joel Case

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: 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: September 8, 2020

---

**CONTRACTING OFFICER**

- **Approve**
- **Disapprove**

Comments/Actions: 

Print: Jennifer Cate

Signature: JENNIFER CATE

Digitally signed by JENNIFER CATE

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: __________
  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
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):
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 Denitrination 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