

## **ADDENDUM II**

**SOLICITATION NO.:**  
**P123399875DLN**

**ADDENDUM NO.:** II

**DATE:** SEPTEMBER 24, 2021

**SOLICITATION NAME:**  
**Piston Coring Deployment and Recovery**  
**System (PCDR) For Regional Class Research**  
**Vessels (RCRVs)**

**DUE DATE AND TIME:**  
**JANUARY 20, AT 3:00 PM, PT**

**ADMINISTRATIVE CONTACT:**  
**DEANNE LAHAIE-NOLL**

The purpose of this Addendum II is to respond to potential proposer requests for clarification or change, to revise the Request for Proposals by modifying one provision, and by modifying Exhibit C - Drawings, by revising Drawing #2 and adding Drawing #11.

- A.** Requests for Clarification or Change received with regard to the Request for Proposals named above. OSU provides potential proposer requests and responses below:

**Request 1:** Exhibit B - PCDR Specification Page 9, Section 001.1.3 – Specification line numbers 115-116:

“Decoupling of the piston corer from the davits prior to the final rotation between Position 2 and Position 3 shall be accomplished via a release mechanism provided by the Owner.”

Can you please provide details of release mechanism provided by the owner?

**Response 1:** A quick release, such as the Gillnet Brailer Release, Sea Catch TR7 or equal, will be the owner provided mechanism.

**Request 2:** Exhibit B - PCDR Specification, Page 9, Figure 6 - Can this attachment allow for some lateral (fore-aft) movement? The concept of the PCDR shows that the extension movement would be at some angle, rather than directly outboard, which would mean that the connection point to the core would need to slip.

**Response 2:** Position 4 is required to have the core resting on the fantail. Further adjustment aft would necessitate a bucket seat redesign. Novel solutions are welcome, but the provided concept will work with simultaneous arm rotation and extension.

**Request 3:** Exhibit B - PCDR Specification, Page 23, Section 004.3, Specification line numbers 384-389:

“The Vendor shall provide MCDs for the PCDRM and davits at the Operational environment listed in Table 2, Section 001.2. The MCD for each piece shall reflect the capabilities of that piece of equipment including capabilities in excess of the requirements listed in this Specification. An example MCD is included as Reference 8. The SWL and DLT if applicable shall be reported in the MCD and stenciled onto the component. The MCD shall be delivered prior to fabrication.”

Link to example MCD broken. Can you provide an example?

**Response 3:** The broken link specified is revised on RFP Addendum I to “Reference 8”. Reference 8 is listed under Specification Section 000.4.3. Reference 8 is provided as Exhibit C - Drawing #8, which includes the MCD example.

**Request 4:** Exhibit B - PCDR Specification, Page 14, Section 003.1, Specification line numbers 211-217:

“Every component of the PCDR System shall be secured to the RCRV main deck using only the 24 x 24 (inch) deck bolt grid array as described in Reference 3. This grid array will determine placement and geometry of the individual components of the PCDR System. The maximum pull-out force on any single deck socket shall not exceed 6,000 lbs. unless analysis is provided justifying higher loads. The maximum loads on deck plating shall be distributed such that the maximum deck bearing pressure is less than 2,000 psi in all load conditions.”

Concerned that the overturning moment will be substantially higher than can be handled through the 24 x 24 bolt pattern with 6,000lb pullout force each, with any reasonably sized base. Has any initial analysis been done with regards to the foundation? Can additional holes be added in between? Is there a plan for supporting increased loading in this area?

**Response 4:** Analysis of the shown PCDRM foundation has been completed and verified to withstand the stated bolt tension and deck compression loads. Additional hull structural modifications can be taken under consideration, please submit specifics on required extent of modifications for review with proposal

**Request 5:** Exhibit B – PCDR Specification, Page 9, Section 001.1.4, Specification line numbers 123-128:

“Position 4 is the PCDRM bucket resting on the bucket seat three feet starboard of vessel centerline. The bucket seat is defined in Reference 10. The bucket seat is designed to absorb vertical impact loads (Section 001.2) by deforming permanently when the PCDRM bucket is resting upon it. The bucket seat platform height will be no higher than 7” above the Main Deck surface. Figure 7 shows the detail of the PCDRM located at the bucket seat in Position 4.”

What is the purpose of the bucket seat? Is it only to absorb the impact energy of the drop?

**Response 5:** The bucket seat is designed to absorb a potential vertical impact loads such as the example of an uncontrolled drop of the piston corer into the bucket.

**Request 6:** Exhibit B – PCDR Specification, Page 14, Section 003.1, Specification line numbers 203-205:

“Electrical power is to be 480 VAC. 480 VAC receptacles are located at the existing main crane base (Frame 64, 30A, 100A, 225A), and at the base of each existing A-frame leg (30A).”

What plug size/type is needed? What amperage is available?

**Response 6:** Voltage, ampacities, and connector information:

- 480V, 225A, Meltric PFQ Series
- 480V, 100A (150A Receptacle), Meltric DSN Series
- 480V, 60A, Meltric DSN Series, Integral Twist Switch
- 480V, 30A, Meltric DSN Series, Integral Twist Switch
- 208V, 50AT (60A Receptacle), Meltric 63-64167-NC
- 480VAC is 3-Phase, 4-wire (3P+G)
- 208 is 3-phase, 5-wire (3P+N+G)

**Request 7:** Exhibit B – PCDR Specification, Page 18, Section 003.1.2, Specification line numbers 275-279:

“Figure 14 Example davit B, can act as core stand when stowed at Position 1

The davit winch drums shall level wind evenly. The winch drum shall have the capacity to store each davit pendant and rigging: 50 feet of ¼” diameter stainless steel pendant cable, 3/8” Crosby pin shackles, and Nicopressed thimbles.”

Does this mean OSU wants a level wind or just proper fleet angle design?

**Response 7:** "The davit winch drum shall level wind evenly" is only to require a neatly spooled wire.

**Request 8:** Exhibit B – PCDR Specification, Page 21, Section 003.1.4, Specification line numbers 315-316:

“All hoses shall be Parker 487 Global Core series or equivalent and terminated with stainless steel female swivel JIC fittings. The HPU circuit design shall incorporate Eaton Aeroquip”

Are standard parker hoses acceptable? Do we need to send a list?

**Response 8:** The intent is to have hydraulic components compatible with the RCRV's delivered hydraulic systems. This will allow for connection to the vessels HPU and spare hose utilization if needed. The vessel deck machinery will be delivered with:

- Eaton Aeroquip HG493 (small bore <=1")

Eaton Aeroquip FC500 (large bore >1")

Section 004.5 As-Built Deliverables in P124399875DLN - PCDR RFP - Exhibit B - Specifications Rev-.pdf describes the final parts list required.

**Request 9:** Exhibit B – PCDR Specification, Page 23, Section 0043.3, Specification line numbers 390-394:

“The Safe Working Load (SWL, or Safe Working Tension as appropriate) shall be defined as the maximum weight of the jumbo piston core the PCDRM and davits can functionally manipulate in the Operational environment defined in Table 2, Section 001.2 while maintaining a minimum safety factor of 1.5 on the yield strength of any part of the component.”

Which provision takes precedence if there is a conflict? UNOLS, ABS or API?

**Response 9:** UNOLS provisions take precedence.

**Request 10:** Is it possible to get Exhibit C - Drawing #2 in an AutoCAD 2-D format?

**Response 10:** Yes, Drawing #2 is provided in an AutoCAD 2-D format under item B.3. of this Addendum II.

## **B. Request for Proposal Revisions**

*P124399875 - Request for Proposals - PCDR.pdf* is modified as follows:

### **1. RFP Section 5.02 f. Domestic Preference Plan:**

#### **a. Delete:**

“Domestic Preference Plan. Proposer’s plan to provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products) in accordance with RFP Section 7.27.”

#### **b. Replace with:**

“Domestic Preference Plan. Proposer’s plan to provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products) in accordance with RFP Section 7.25.”

#### **c. Reason for revision:** To correct an inaccurate RFP Section reference.

### **2. Exhibit C - Drawing #2.**

#### **a. Delete in its entirety:**

*P124399875DLN - Exhibit C - Drawing #2 - 6096-160-001 Rev.- 2017 - Removable Bulwarks.pdf.*

#### **b. Replace with the attached:**

*P124399875DLN - Exhibit C - Drawing #2 - 6096-160-001-Rev(B) Removable Bulwarks (preliminary).pdf.*

- c. **Reason for Revision:** To provide an updated version of Drawing #2.
- 3. Exhibit C - Drawing #10.
  - a. **Insert the following Drawing #11 immediately after Drawing #10:**  
*P124399875DLN - Exhibit C - Drawing #11 - 6096-160-001-Rev(B)  
Removable Bulwarks 20210917 2-D (preliminary).pdf.*
  - b. **Reason for Revision:** To provide Drawing #2 in a 2-D AutoCAD Format.

**Entities are not required to return addenda with their responses but are responsible to make themselves aware of, obtain, and incorporate into their responses any information contained in addendums.**