

REQUEST FOR PROPOSAL: (RFP) RFP NO. 304148  
DATE OF RFP ISSUE: September 7, 2017  
DATE THIS ADDENDUM: September 26, 2017

A/C/D-CELL DAM ASSEMBLIES  
HANFORD SITE, RICHLAND, WASHINGTON  
**ADDENDUM NO. 3**

Request for Proposal 304148 for the A/C/D-Cell Dam Assemblies, dated September 7, 2017 Addendum No. 3 provides the following answers to questions received in response to the RFP:

1. **Question:** During the pre-proposal conference on September 19, it was discussed that it may be acceptable to propose alternative designs that may deviate from the FRD, PRC-SRP-00124, and performance specification, PRC-SRP-00125 (PS), as long as the performance requirements are met. Please clarify the extent, if any, to which we can deviate from the requirements of the FRD and PS. Will proposed design alternatives be accepted that deviate from some of the prescriptive requirements of the FRD and PS, as long as performance requirements are met and the specific deviations are noted in the proposal? For example, if a design solution uses less lifting bails on the C Cell dam as opposed to the three lifting bails required by the PS, Table 2, would this be acceptable?

**Answer:** Yes, alternative designs to those provided are acceptable as long as the function and performance requirements are met. Designs provided in the RFP documents are conceptual and for information only. The contractor shall provide an effective and efficient system.

Using fewer lifting bails on the C-Cell dam (as opposed to the three lifting bails identified in PS) is acceptable as long as the C-Cell dam can be remotely installed – including posture adjustment during lifting by the overhead crane.

Note that three lifting bails would be used to: (a) lift the whole system (long edge of the base panel vertical) through the cell door opening; (b) rotate the whole system by 90 degrees (long edge of the base panel horizontal) and, after combining with second piece of the base panel, close/install the cell dam into the door opening; and, (c) detach/remove the frame and counter weight from C-Cell dam to rail cart in order to close the cell door (CG of whole system and CG of frame/counter weight are different).

2. **Question:** The radiation dose rate is given as 13,000 R/hr (FRD Section 2.5) and the project design life is 2 years (PS, Section 5.12.1). Is the total accumulated radiation dose for design to be a continuous dose rate of 13,000 R/hr for the entire 2-year design life? This results in a total lifetime accumulated dose of  $2.3 \times 10^8$  Rad. It may

be difficult to select an elastomer type seal with this level of radiation tolerance. Please consider this and confirm what the design lifetime accumulated dose should be.

**Answer:** The maximum dose rate the water seals will experience is 13,000 R/hr. The water seal design life for radiation tolerance is until the grout has settled (i.e., no more bleeding) at the highest design elevation. The duration for the maximum dose rate shall be assumed to be one year.

3. **Question:** Can the floor plug in D-Cell be removed and pieces of the C-Cell dam lowered through the floor hatch? If so, what are the minimum internal dimensions of this floor hatch?

**Answer:** It would be possible to remove the floor plug in D-Cell and lower materials through the opening into C-Cell. The minimum dimensions of the floor hatch are 4' - 10 ¾" by 2' - 10 ¾" (see detail 707 on drawing H-3-20274).

Please note the following:

- The A/D-Cell crane can only lower an objective to the floor in C-Cell; the object must then be manipulated by the C-Cell crane.
- The C-Cell crane does not access the shield door or the north wall inside C-Cell (the limits of travel for the C-Cell crane are shown on drawing H-3-300262, sheets 1 and 8). Therefore, no crane side pulling can be used to close the cell dam.
- The maximum distance from the base panel to the interior face of the cell wall shall be 2" in order to maximize the number of waste bins placed in the cell. This will limit a frame and counter weight attached to the cell dam from cell side.

Please acknowledge receipt of this Addendum No. 3 with the submittal of your proposal. All other requirements of the RFP not aforementioned remain unchanged.

CHPRC

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