

BOARD REPORT

Committee Name: C&R

Submitted by: Dave Paul, Chairman

Report Date: May 3, 2021



Committee Mission/Purpose

The USSD Committee on Construction and Rehabilitation will, in collaboration with other USSD and ICOLD committees and the water resources community at large, address the role of construction techniques, construction management, contract selection, cost implications/ trends and construction activities in building and maintaining dams and dam related infrastructure.

Specific areas of focus include the following:

- Methods of dam construction and removal
- Effectiveness of construction in the reduction of risk
- Effectiveness of construction in maintaining infrastructure assets
- Effectiveness of construction in improved operations and maintenance
- Effectiveness of construction in the mitigation of the effects of aging
- Life-cycle costs and benefits of construction projects
- Effectiveness of measures to mitigate environmental impacts associated with construction
- Effectiveness of design in relation to construction methods and costs
- Implications of cost in relationship to contract method selection.

2020 Goals/Accomplishments

The Committee has 4 active Subcommittees:

1. Cutoff Wall Construction
2. Cost Estimating and Cost Trends
3. Risk Management
4. Cofferdams and River Management

The C&R Committee has been supporting the ICOLD *Committee M, Operation, Maintenance, and Rehabilitation* since the committee was developed. Since the early 2000's, Committee M's USSD representative (Dan Johnson) has taken an active role in developing ICOLD bulletins and participating in Annual Meetings and Congresses. Dan served as Co-Chairman since 2012 and in 2019 he was elevated to Chairman of the ICOLD Committee M. Committee M has completed and submitted to ICOLD a new document titled "Underwater Inspection Guidelines" that is at ICOLD HQ for review.

As a result of this collaboration with ICOLD Committee M, a 5 th C&R Subcommittee was formed in

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2020 – Underwater Inspection and Construction. Frank Immel of Global Diving is Chairman. Frank has been very active since the Subcommittee was formed and is very active planning a Webinar in June 2021.

2021 Goals

1. Cutoff Wall Subcommittee will complete peer review of DFI's - Guidelines for Selecting Cutoff Walls Systems.
2. Cutoff Wall Subcommittee will prepare "Guidelines for QA/QC of Cutoff Wall Systems."
3. Cost Estimating and Cost Trends will continue to assimilate cost bid abstracts provided by various entities and is planning on issuing a Cost Trends Report at the end of 2021.
4. The Cofferdam and River Management Subcommittee will continue to prepare Guidelines for Cofferdams.
5. The Cofferdam and River Management Subcommittee will conduct a ½ day Workshop on May 21 titled "Water Management During Construction"
6. The Underwater Inspection and Construction Subcommittee will give a Technical Update Webinar on Underwater Inspection and Construction technologies in June 2021.
7. The Cofferdam and River Management Subcommittee is collaborating with ICOLD Committees E and M to revise/update ICOLD Bulletin 48a – River Control During Construction. In addition, Committee M has submitted a request to conduct a Workshop at the 2021 ICOLD meeting in Marseille France.
8. 17 USSD members have expressed interest in joining the C&R Committee (from 2021 Conference registrations). The Committee will strive to integrate them in ongoing activities. As part of that integration the goal is obtain re-commitments from current members who have not been all that active.

What do you need to accomplish your 2021 goals?

Continued support from Sharon and Tonia who have been extremely responsive throughout 2021.

Conduct Monthly Telecoms with the Committee to maintain momentum on ongoing endeavors.