

Water Management for Dam Construction

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Cofferdam risk sharing considerations

Contractor-led

- Primary consequence center is the work area
- Greater flexibility of means and methods

Owner/Engineer-led

- Potential for downstream consequences
- Dam safety potential failure modes can occur due to the cofferdam
- Cofferdam will be incorporated into the permanent works



Influence of contract type

Design-Bid-Build

- Contractor traditionally responsible for cofferdam
- Regulatory approval timeline may necessitate engineer design
- Risk sharing outlined in the contract documents

Design-Build

- Engineer is part of the Contractor's team
- Engineer qualifications important
- Owner may establish minimum criteria to address dam safety risks



Cofferdam considerations for rehabilitation/modification projects

- Risk should not be increased above existing levels during construction
- Cofferdam size and type often dictated by site and/or operational constraints
- Connections/interaction with existing dam critical



Red Rock Hydroelectric Project

