

SAFETY OF DAMS



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BACKGROUND

- The safe design, construction and operation of dams depends on more than engineering factors.
- Dam safety is a complex process.
- National requirements and international good practice for the safety of dams.

DAM SAFETY MEASURES

- **Safety issues associated with characteristics of the dam**
- **Mechanical and electrical control equipment backed up/doubled up, to ensure capability in emergencies.**
- **Comprehensive dam safety reviews**
- **Relevant national standards and government framework for the safety**

World Bank Operational Policy on Safety of Dams

- Experienced and competent professionals design and supervise construction.
- Dam Safety Panel
- An instrument plan
- O&M procedures and arrangements
- A clear communication strategy to engage with stakeholders on dam safety issues and emergency preparedness activities

Emergency preparedness plan (EPP)

- In particular, developers / owners / operators should
 - prepare and implement a Dam Safety Management System (DSMS)
 - be responsible to check for periodic updates of the World Bank Operational Policy
 - be responsible for all cost associated with implementing all aspects of this guidance on the safety of dams
 - clearly detail all such costs in the project budgets for the design, implementation and operation stages

Other information on the safety of dams

- Relevant national standards that impact on different aspects of dam safety
- World Bank Operational Policy 4.37 on the Safety of Dams
- Periodic Technical Bulletins on the Safety of Dams issued by the International
- Commission on Large Dams (ICOLD) through the ICOLD Committee on Dam Safety (CODS).
- A further consideration is dam break analysis of the proposed cascade of dams should be prepared and coordinated through concerned line agencies and MRCS.
- This guidance is appropriately reflected in Concession Agreements

Thank you!

