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# REGULATORY FRAMEWORKS FOR DAM SAFETY

*A Comparative Study*

Daniel D. Bradlow, Alessandro Palmieri, and Salman M. A. Salman

# Regulatory Frameworks For Dam Safety

**Jicheng Xie**



## **Regulatory Frameworks For Dam Safety:**

Regulatory Frameworks for Dam Safety Daniel D. Bradlow, Alessandro Palmieri, Salman M. A. Salman, 2002-10-01

Regulatory Frameworks for Dam Safety was conceived and prepared in response to growing concern over the safety of dams. Given the large number of dams around the world, the safe operation of dams has significant social, economic, and environmental relevance. A dam failure can result in extremely adverse impacts, including a large-scale loss of human life. For countries with large stocks of dams, the issue of dam safety is critical. The book examines the dam safety regulatory frameworks of 22 countries. It draws comparisons and highlights similarities among the various systems. Most important, it identifies essential elements, desirable features, and emerging trends for dam safety regulatory frameworks. The authors are leading experts in their fields. Daniel Bradlow is professor and director of the International Legal Studies Program at the Washington College of Law at American University and was a consultant to the World Commission on Dams. Alessandro Palmieri is Lead Dam Specialist in the Quality Assurance and Compliance Unit of the Environmentally and Socially Sustainable Development Vice Presidency at the World Bank. Salman M. A. Salman is Lead Counsel in the Environmentally and Socially Sustainable Development and International Law Group of the World Bank's Legal Vice Presidency and has published extensively in the area of water law.

**Laying the Foundations** Marcus J. Wishart, Satoru Ueda, John D. Pisaniello, Joanne L. Tingey-Holyoak, Esteban Boj García, 2020-12-03 Dam safety is central to public protection and economic security. However, the world has an aging portfolio of large dams with growing downstream populations and rapid urbanization, placing dual pressures on these important infrastructures to provide increased services and to do so more safely. To meet the challenge, countries need legal and institutional frameworks that are fit for purpose and can ensure the safety of dams. Such frameworks enable dams to provide water supplies to meet domestic and industrial demands, support power generation, improve food security, and bolster resilience to floods and droughts, helping to build safer communities. **Laying the Foundations: A Global Analysis of Regulatory Frameworks for the Safety of Dams and Downstream Communities** is a systematic review of dam regimes from a diverse set of 51 countries with varying economic, political, and cultural circumstances. These case studies inform a continuum of legal, institutional, technical, and financial options for sustainable dam safety assurance. The findings from the comparative analysis will inform decisionmakers about the merits of different options for dam safety and help them systematically develop the most effective approaches for the country context. By identifying the essential elements of good practices guided by portfolio characteristics, this tool can help identify gaps in existing legal, institutional, technical, and financial frameworks to enhance the regulatory regime for ensuring the safety of dams and downstream communities.

**Dam Safety Assurance** Marcus Wishart, Satoru Ueda, John Pisaniello, Kimberly Lyon, Joanne Tingey, Esteban Boj García, 2019-10 **Dam Safety Assurance** Laying the Foundations Esteban Boj García, Kimberly N. Lyon, John Pisaniello, Joanne L. Tingey-Holyoak, Satoru Ueda, Marcus J. Wishart, 2022 The foundation for

effective dam safety assurance is an appropriate and well designed regulatory framework that captures the legal institutional technical and financial elements in the reality of a particular jurisdiction Aging infrastructure diminishing returns on new projects changes in climate and weather patterns and shifting trends of human settlement require ever increasing attention in the effort to ensure the safety of dams and downstream communities Establishing and maintaining a regulatory framework that is fit for purpose is therefore necessary for assuring the quality of dam design construction and operations The framework also ensures that safety measures are reflective of the risks inherent in managing these structures and the context in which they are developed Such frameworks need to be developed as part of a holistic strategy for water management that is integrated in basin and regional planning processes The purpose of this Decision Support Tool is to guide countries and jurisdictions through various considerations in designing and updating their regulatory environment for dam safety assurance This Decision Support Tool aggregates information derived from a comprehensive review and comparative analysis of regulatory frameworks in 51 countries It presents a typology of situations that correlate with regulatory framework options along a continuum from minimum to maximum assurance of safety It then presents hypothetical examples of how the Decision Support Tool can be used by countries and jurisdictions to assess their own situations and which regulatory options may be appropriate to consider for improving dam safety assurance

**Regulation of Dam Safety: An Overview of Current Practices Worldwide / Reglementation de la Sécurité des Barrages: Revue Internationale des Pratiques Actuelles** CIGB ICOLD,2025-03-18 ICOLD Bulletin 167

Regulation of Dam Safety An Overview of Current Practices Worldwide provides a comprehensive review of legal and regulatory arrangements for the safety of dams among the countries represented at ICOLD As such this review is essentially a snapshot of the situation being in place at the end of the first and the beginning of the second decade in the 21st century This Bulletin is useful not only to these countries which have weak or non existent legal and regulatory dam safety frameworks but also to these jurisdictions which are considering changes and improvements to existing legislation and regulations Le Bulletin 167 de la CIGB Reglementation de la Securite des Barrages Revue Internationale des Pratiques Actuelles fournit une revue complete des dispositions legales et reglementaires en matiere de securite des barrages au sein de pays representes la CIGB ce titre cette revue est une photographie instantanee de la situation autour des annes 2010 Il peut tre utile non seulement pour les pays qui ont un cadre juridique et reglementaire rduit ou inexistant pour la securite des barrages mais galement ceux qui envisagent des changements et des ameliorations de leurs legislations et reglementations en vigueur

**Proposed Regulatory Framework for Dam Safety**, 2019 Regulation of Dam Safety: An Overview of Current Practices Worldwide / Reglementation de la Sécurité des Barrages: Revue Internationale des Pratiques Actuelles CIGB ICOLD,2025-03-18 ICOLD Bulletin 167 Regulation of Dam Safety An Overview of Current Practices Worldwide provides a comprehensive review of legal and regulatory arrangements for the safety of dams among the countries represented at ICOLD As such this review is

essentially a snapshot of the situation being in place at the end of the first and the beginning of the second decade in the 21st century This Bulletin is useful not only to these countries which have weak or non existent legal and regulatory dam safety frameworks but also to these jurisdictions which are considering changes and improvements to existing legislation and regulations Le Bulletin 167 de la CIGB Reglementation de la Securite des Barrages Revue Internationale des Practiques Actuelles fournit une revue complete des dispositions legales et réglementaires en matière de securite des barrages au sein de pays representés la CIGB ce titre cette revue est une photographie instantanée de la situation autour des années 2010 Il peut être utile non seulement pour les pays qui ont un cadre juridique et réglementaire réduit ou inexistant pour la securite des barrages mais également ceux qui envisagent des changements et des améliorations de leurs législations et réglementations en vigueur

**Flood Evaluation and Dam Safety** CIGB ICOLD,2018-08-06 Hydrology and dams are two fields that are obviously closely related Four bulletins have so far been published by the Committee Selection of Design Flood Current methods Dams and Floods Guidelines and cases histories Role of Dams in Flood Mitigation A review and Integrated Flood Management These bulletins have essentially addressed floods the risks they represent and their significance for the concerned populations The present Bulletin deviates slightly from this path adopting a somewhat more technical perspective The text consists of three chapters conceived to be accessible to the practitioners

**Risk and Uncertainty in Dam Safety** Desmond N. D. Hartford,Gregory B. Baecher,2004 Intends to assist the dam owner in evaluating the needs for dam safety improvement selecting and prioritizing remedial and corrective actions and improving the operation maintenance and surveillance procedures This book is intended not only for industry specialists but also for readers outside the dam engineering community

**Twenty-Sixth International Congress on Large Dams / Vingt-Sixième Congrès International des Grands Barrages** CIGB ICOLD,2018-06-18 The International Committee on Large Dams ICOLD held its 26th International Congress in Vienna Austria 1-7 July 2018 The proceedings of the congress focus on four main questions 1 Reservoir sedimentation and sustainable development 2 Safety and risk analysis 3 Geology and dams and 4 Small dams and levees The book thoroughly discusses these questions and is indispensable for academics engineers and professionals involved or interested in engineering hydraulic engineering and related disciplines

**Regulatory Frameworks for Water Resources Management** Salman M. A. Salman,Daniel D. Bradlow,2006-01-01 This title examines how regulatory frameworks have addressed the various basic issues related to water resources management and provides a comparative analysis of those issues It elicits and discusses what it considers are the essential elements for a regulatory framework for water resources management and identifies some emerging trends

**Role of Dams and Reservoirs in a Successful Energy Transition** Robert Boes,Patrice Droz,Raphaël Leroy,2023-08-31 Today new and unexpected challenges arise for Europe's large array of existing dams and fresh perspectives on the development of new projects for supporting Europe's energy transition have emerged In this context the 12th ICOLD European Club Symposium has been held in September 2023 in Interlaken

Switzerland The overarching Symposium theme was on the Role of dams and reservoirs in a successful energy transition The articles collected in this report book consisting of a 250 page abstract book and a 1010 page full paper USB cover the various themes developed during the symposium Dams and reservoirs for hydropower Dams and reservoirs for climate change adaptation Impact mitigation of dams and reservoirs How to deal with ageing dams In conjunction with the Symposium the 75th anniversary of the Swiss Committee on Dams offered an excellent opportunity to not only draw from the retrospective of Switzerland's extensive history of dam development but to also reveal perspectives on the new role of dams for a reliable and affordable energy transition These aspects are illustrated by several articles covering the various activities challenges and concerns of the dam community

**Twenty-Seventh International Congress on Large Dams Vingt-Septième Congrès International des Grands Barrages** ICOLD CIGB,2022-05-20 The International Committee on Large Dams ICOLD held its 27th International Congress in Marseille France 12-19 November 2021 The proceedings of the congress focus on four main questions 1 Reservoir sedimentation and sustainable development 2 Safety and risk analysis 3 Geology and dams and 4 Small dams and levees The book thoroughly discusses these questions and is indispensable for academics engineers and professionals involved or interested in engineering hydraulic engineering and related disciplines Opportunities in Dam Planning and Management Leonardo Mazzei, Lawrence J.M. Haas, Donal T. O'Leary, 2011-06-21 This Handbook offers how to ideas to help infrastructure practitioners identify good practice improvements in communication starting with the World Bank's own expanding portfolio of dam projects *Tailings Dam Safety / Sécurité des Barrages de Stériles* ICOLD CIGB, 2025-04-28 ICOLD Bulletin 194 Tailings Dam Safety aims to assist the international community to further develop and adopt safe practices for tailings dam planning design construction operation and closure with a focus on the technical aspects that are mentioned but not fully developed in other recent National and Industry Guidelines and Standards Governance and human aspects have also been touched on with appropriate references where other guidance documents are considered more comprehensive The Bulletin consolidates key information from these Guidelines and Standards together with information from various previous ICOLD Bulletins that address specific aspects of the topic to provide a comprehensive overview of what makes a tailings dam safe Comprehensive references are provided to assist users to access more detailed information where relevant In preparing this bulletin ICOLD has strived to consolidate leading international practice for tailings dams with a focus on technical guidance Le sous comité de la CIGB sur les stériles a préparé le présent bulletin pour aider la communauté internationale à améliorer les pratiques en matière de sécurité lors des phases de planification de conception de construction d'exploitation et de fermeture des installations en détaillant en particulier les aspects techniques qui ont été mentionnés sans avoir complètement développé dans d'autres ouvrages directeurs et normatifs récemment publiés par des organismes gouvernementaux et industriels Les aspects liés à la gouvernance et aux personnes ont également été abordés en offrant les références appropriées lorsque d'autres documents directeurs ont été jugés plus complets sur le sujet Le présent

bulletin rassemble les principaux renseignements issus de ces lignes directrices et de ces normes ainsi que l'information provenant des divers bulletins antérieurs de la CIGB qui traitent d'aspects spécifiques du sujet afin de parvenir à une description complète de ce qui assure la sécurité d'un barrage de sûreté. Des articles approfondis sont par ailleurs cités en référence pour aider le lecteur à accéder au cas échéant des renseignements plus détaillés. En préparant ce bulletin la CIGB s'est efforcée de faire la synthèse des meilleures pratiques internationales mises en œuvre pour les barrages de sûreté et privilégiant les recommandations techniques.

*Sustainable and Safe Dams Around the World / Un monde de barrages durables et sécuritaires* Jean-Pierre Tournier, Tony Bennett, Johanne Bibeau, 2019-08-08. These proceedings include digital media with the full conference papers 3600 pages. Sustainable and Safe Dams Around the World contains the contributions presented at the 2019 Symposium of the International Commission on Large Dams ICOLD 2019 Ottawa Canada 9-14 June 2019. The main topics of the book include:

- 1 Innovation recent advancements and techniques for investigations design construction operation and maintenance of water or tailings dams and spillways
- 2 Sustainable Development planning design construction operation decommissioning and closure management strategies for water resources or tailings dams e.g. climate change sedimentation environmental protection risk management
- 3 Hazards design mitigation and management of hazards to water or tailings dams appartenant structures spillways and reservoirs e.g. floods seismic landslides
- 4 Extreme Conditions management for water or tailings dams e.g. permafrost and ice loading arid wet climates geo hazards
- 5 Tailings design construction operation and closure for tailings dams recent advancements and best practice

*Sustainable and Safe Dams Around the World* will be invaluable to academics and professionals interested or involved in dams. *Un monde de barrages durables et sécuritaires* contiennent les contributions présentées lors du symposium de 2019 de la Commission internationale des grands barrages CIGB 2019 Ottawa Canada 9-14 juin 2019. Les principaux sujets du livre incluent:

- 1 Innovation Avancées et techniques récentes pour l'investigation la conception la construction l'exploitation et l'entretien de barrages hydrauliques de barrages de sûreté et d'évacuateurs de crues
- 2 Développement durable stratégies de gestion pour la planification la conception la construction l'exploitation la mise hors service et la fermeture de barrages hydrauliques ou des barrages de sûreté par exemple changement climatique sédimentation protection de l'environnement gestion des risques
- 3 Risques mesures d'atténuation et gestion des risques liés aux barrages hydrauliques et barrages de sûreté aux ouvrages annexes aux évacuateurs de crues et aux réservoirs par exemple inondations tremblements de terre glissements de terrain
- 4 Environnement extrême gestion des barrages hydrauliques et barrages de sûreté par exemple pergélisol et charge de glace climats secs humides géloriques
- 5 Barrages de sûreté conception construction exploitation et fermeture des barrages de sûreté avancées récentes et meilleures pratiques

*Un monde de barrages durables et sécuritaires* seront d'une valeur inestimable pour les universitaires et les professionnels intéressés ou impliqués dans les barrages.

**Dam and Levee Safety and Community Resilience**  
National Research Council, Division on Earth and Life Studies, Board on Earth Sciences and Resources, Committee on

Geological and Geotechnical Engineering, Committee on Integrating Dam and Levee Safety and Community Resilience, 2012-09-11 Although advances in engineering can reduce the risk of dam and levee failure some failures will still occur Such events cause impacts on social and physical infrastructure that extend far beyond the flood zone Broadening dam and levee safety programs to consider community and regional level priorities in decision making can help reduce the risk of and increase community resilience to potential dam and levee failures Collaboration between dam and levee safety professionals at all levels persons and property owners at direct risk members of the wider economy and the social and environmental networks in a community would allow all stakeholders to understand risks shared needs and opportunities and make more informed decisions related to dam and levee infrastructure and community resilience Dam and Levee Safety and Community Resilience A Vision for Future Practice explains that fundamental shifts in safety culture will be necessary to integrate the concepts of resilience into dam and levee safety programs *Comprehensive Flood Risk Management* Frans Klijn, Timo Schreckendiek, 2012-11-01 Flood risk management policy across the European Union is changing partly in response to the EU Floods Directive and partly because of new scientific approaches and research findings It involves a move towards comprehensive flood risk management which requires bringing the following fields domains closer together the natural sciences social sc

**Dams of America** Yves Earhart, AI, 2025-02-12 Dams of America explores the multifaceted role of dams in the United States examining them not just as feats of civil engineering and crucial infrastructure but also as significant factors in environmental impact and sustainable water management Dams provide hydroelectric power and aid water resources yet they also pose ecological consequences Discover how these concrete giants have shaped the American landscape particularly in the American West influencing everything from water supply to flood control The book highlights intriguing facts such as how early dams powered mills contributing to industrial growth while later structures like the Hoover Dam addressed flood control and electricity generation during the New Deal era It progresses from fundamental concepts of dam engineering and hydrology to case studies of specific dams grouped geographically or by type and culminates in proposing strategies for sustainable practices By connecting engineering reports environmental impact statements historical records and scientific studies the book provides a comprehensive overview This book uniquely balances the benefits of dams with their environmental and social costs offering a fact based and accessible analysis It s valuable for students policymakers and anyone interested in the history and future of American infrastructure providing a framework for evaluating dams costs and benefits and informing decisions about their management including dam removal and alternative energy sources

[Dams of India](#) Yves Earhart, AI, 2025-02-12 Dams of India explores the multifaceted role of dams in shaping India s water resources power generation and agricultural landscape It examines how these massive engineering projects have influenced the nation s development while also considering the environmental and socio economic consequences The book highlights the historical evolution of dam construction in India from ancient water harvesting



systems to modern mega dams Intriguingly dam construction often involves geological considerations for site selection and the book emphasizes the necessity of sustainable dam management practices to mitigate environmental impacts and maximize benefits for all stakeholders The book progresses through distinct sections beginning with an introduction to dam engineering principles and then transitions into analyzing major Indian dams by region and purpose It further delves into the socio economic impacts documenting case studies of displacement and the effectiveness of resettlement policies Finally it examines the environmental consequences of dam construction such as altered river ecosystems and deforestation This approach provides a comprehensive understanding of the complex challenges and successes associated with dam construction and its profound influence on India s infrastructure development

Uncover the mysteries within Explore with is enigmatic creation, **Regulatory Frameworks For Dam Safety** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( Download in PDF: \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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