

Regulatory Framework for Dam Safety

Preliminary Results of the WB Global Dam Safety Legal & Institutional Framework Study

Satoru Ueda, Lead Dam Specialist
Sofia Grand Hotel, September 19, 2017



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Regulatory Frameworks For Dam Safety

Nicole Silk, Kristine Ciruna



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 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 it 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. *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 reduit ou inexistant pour la securite des barrages mais galement ceux qui envisagent des changements et des ameliorations de leurs legislations et reglementations en vigueur

Dam Safety Assurance Marcus Wishart,Satoru Ueda,John Pisaniello,Kimberly Lyon,Joanne Tingey,Esteben Boj Garcia,2019-10 Dam Safety Assurance *Proposed Regulatory Framework for Dam Safety*,2019

The UNECE Convention on the Protection and Use of Transboundary Watercourses and International Lakes Attila Tanzi,Owen McIntyre,Alexandros Kolliopoulos,Alistair Rieu-Clarke,Rémy Kinna,2015-04-21 The UNECE Convention on the Protection and Use of Transboundary Watercourses and International Lakes provides invaluable insights into the contribution of this international agreement towards transboundary water cooperation via its legal provisions

accompanying institutional arrangements and subsidiary policy mechanisms Contributing authors experts on key aspects of the Convention address a broad range of issues primarily concerning its development and evolution relationship with other multi lateral agreements regulatory framework and general principles tools for arresting transboundary pollution procedural rules compliance and liability provisions and select issues including its Protocol on Water and Health

Risk Management in Regulatory Frameworks Lorenza Jachia,Valentin Nikonov,2012 Recent years have been marked by many catastrophic events both natural and man made Close interconnections mean that the impact of these crises has been felt throughout the world Although many tools have been developed to manage risks successfully there can be no doubt that many of the losses we have recently witnessed could have been prevented or minimised in the context of an effective and well balanced regulatory system The goal of this publication is to provide insights and recommendations for policymakers on designing regulatory systems that result in an efficient effective and transparent management of risks This is a practical book It introduces a holistic model of a regulatory system function by function and with real life examples which is based on the objective of managing risks effectively

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 Sécurité des Barrages Revue Internationale des Pratiques Actuelles fournit une revue complète des dispositions légales et réglementaires en matière de sécurité des barrages au sein de pays représentés 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 sécurité des barrages mais également ceux qui envisagent des changements et des améliorations de leurs législations et réglementations en vigueur

Historical Dictionary of the World Bank Sarah Tenney,Anne C. Salda,2013-10-30 This second edition of the Historical Dictionary of the World Bank shows the substantial progress the Bank has made this mainly through the dictionary section with concise entries on its component institutions related organizations its achievements in various fields some of the major projects and member countries and its various presidents The introduction explains how the Bank works while the chronology traces the major events over nearly 70 years Meanwhile the list of acronyms reminds us just who the main players are And the bibliography directs readers to useful internal documentation and outside studies

The World Bank Policy for Projects on International Waterways Salman M. A. Salman,2009 This book deals with the evolution and context of

the Bank policy for projects on international waterways It starts with a brief description of how the Bank faced the challenges stemming from such projects and the different approaches deliberated by the Bank that led to the issuance of the first policy in 1956 The Book then reviews the implementation experience and analyzes the principles and procedures as well as the main features of each of the policies issued in 1956 1965 and 1985 The principles of international water law prevailing at each stage of the policy updates are examined and **Forest Law and Sustainable Development**, 2007 This book analyzes the wide range of issues that should be taken into account in forest related legislation It stresses that forest law must be understood in the context of the broader legal framework governing land use and land tenure as well as international obligations related to trade environmental protection and human rights The book also pays significant attention to institutional arrangements and governance practices relevant to forests including decentralization transparency and law enforcement The authors draw extensively on experience from around the world to provide tools for dealing with various forest management challenges The authors are experts in the field of forest law Lawrence C Christy is a Former Chief Development Law Service Legal Office Food and Agriculture Organization of the United Nations FAO Charles E Di Leva is Chief Counsel Environmentally and Socially Sustainable Development and International Law Unit LEGEN Legal Vice Presidency World Bank Jonathan M Lindsay is Senior Counsel with LEGEN Legal Vice Presidency World Bank Patrice Talla Takoukam is Counsel with LEGEN Legal Vice Presidency World Bank **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 *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 **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 **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

Introduction to Soil Mechanics Tara Pandey, 2025-02-20 **Introduction to Soil Mechanics** is an indispensable guide in civil engineering exploring the fundamental principles that govern soil behavior We cater to a global audience including readers in the United States where geotechnical engineering plays a pivotal role in infrastructure development Our aim is to demystify the complex world beneath our feet breaking down the interactions between soils and applied forces into digestible concepts We start with an overview of soil mechanics highlighting its significance in civil engineering The book unfolds the

relationships between soils and structures emphasizing the need to understand soil behavior for stable constructions We cover essential topics such as soil properties particle size distribution and compaction laying a solid foundation for understanding the mechanical intricacies beneath the Earth's surface The book includes case studies from around the world including the U S adding real world context to the theoretical framework We address geotechnical challenges foundation design for high rise buildings slope stability analysis and stormwater management aligning with sustainable engineering practices By addressing contemporary challenges like liquefaction during seismic events we provide a holistic view of geotechnical engineering Introduction to Soil Mechanics is a practical guide blending theoretical concepts with real world applications making it a valuable resource for engineers and students globally

Dam Safety in Central Asia, 2007 The publication provides an overview and analysis of the present situation in Central Asia with regard To The safety of hydraulic structures such as dams In addition to a list of all major dams in the region The publication also includes a model national law on safety of large hydraulic facilities including dams intended to be a base of national harmonized legal frameworks for dam safety and a draft of the regional agreement on cooperation on dam safety

Earthquake Engineering for Dams and Reservoirs Jonathan Hinks, 2023-09-25 Earthquake Engineering for Dams and Reservoirs is an invaluable source for any engineer or designer tasked with building retrofitting or maintaining dams in all seismically active regions to make decisions on the type of dam structure required for new projects and understand the issues that face existing dams and how to mitigate them

A Practitioner's Guide to Freshwater Biodiversity Conservation Nicole Silk, Kristine Ciruna, 2013-04-10 A Practitioner's Guide to Freshwater Biodiversity Conservation brings together knowledge and experience from conservation practitioners and experts around the world to help readers understand the global challenge of conserving biodiversity in freshwater ecosystems More importantly it offers specific strategies and suggestions for managers to use in establishing new conservation initiatives or improving the effectiveness of existing initiatives The book offers an understanding of fundamental issues by explaining how ecosystems are structured and how they support biodiversity provides specific information and approaches for identifying areas most in need of protection examines promising strategies that can help reduce biodiversity loss and describes design considerations and methods for measuring success within an adaptive management framework The book draws on experience and knowledge gained during a five year project of The Nature Conservancy known as the Freshwater Initiative which brought together a range of practitioners to create a learning laboratory for testing ideas approaches tools strategies and methods For professionals involved with land or water management including state and federal agency staff scientists and researchers working with conservation organizations students and faculty involved with freshwater issues or biodiversity conservation and policymakers concerned with environmental issues the book represents an important new source of information ideas and approaches

This book delves into Regulatory Frameworks For Dam Safety. Regulatory Frameworks For Dam Safety is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Regulatory Frameworks For Dam Safety, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Regulatory Frameworks For Dam Safety
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 6. In chapter 5, the author will draw a conclusion about Regulatory Frameworks For Dam Safety. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Regulatory Frameworks For Dam Safety.

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