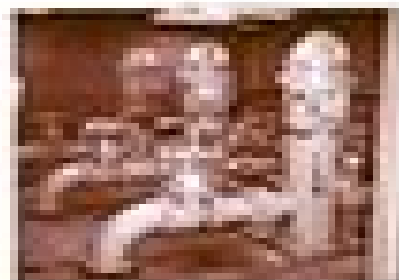
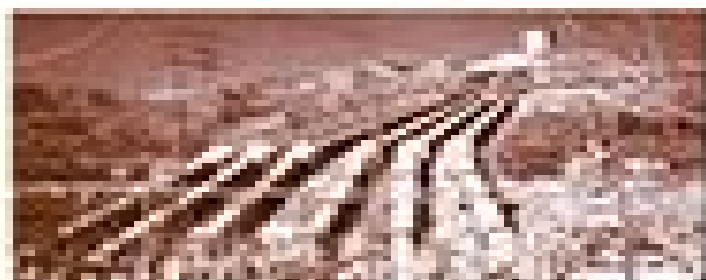


# SEISMIC SCREENING CHECKLISTS FOR WATER AND WASTEWATER FACILITIES

Edited by William F. Heubach



Technical Council on Lifeline Earthquake Engineering  
Monograph No. 12  
September 2000

**ASCE**

# Seismic Screening Checklists For Water And Wastewater Facilities

**American Water Works  
Association, American Society of Civil  
Engineers**

## **Seismic Screening Checklists For Water And Wastewater Facilities:**

Seismic Screening Checklists for Water and Wastewater Facilities William F. Heubach, 2003-01 This report provides checklists to screen for seismically vulnerable water and wastewater facilities The checklists facilitate seismic vulnerability assessment for water and wastewater system components and provide useful information for improving loss mitigation programs The report was prepared by the Water and Wastewater Committee of the American Society of Civil Engineers ASCE Technical Council on Lifeline Earthquakes Engineering TCLEE A brief overview explains the checklist format and organization Checklists are presented for five categories of water and wastewater system facilities and components Surface Facilities and Components Storage Distribution and Collection Components Treatment Facilities and Components Support Equipment and Administration Operations and Maintenance Facility Contents

**Fire Following Earthquake** Charles Scawthorn, John M. Eidinger, Anshel Schiff, 2005-01-01 Prepared by the Technical Council on Lifeline Earthquake Engineering of ASCE This TCLEE Monograph covers the entire range of fire following earthquake FFE issues from historical fires to 20th century fires in Kobe San Francisco Oakland Berkeley and Northridge FFE has the potential of causing catastrophic losses in the United States Japan Canada New Zealand and other seismically active countries with wood houses This comprehensive book on FFE and urban conflagrations provides state of the practice insight on unique issues such as large diameter flex hose applications by fire and water departments Topics include History of past fires Computer modeling of fire spread in the post earthquake urban environment Concurrent damage and fire impacts for water power gas communication and transportation systems Examples of reliable water systems built or designed in San Francisco Vancouver Berkeley and Kyoto Use of large diameter 5 in and ultralarge diameter 12 in flex hose for fire fighting and water restoration and Cost effectiveness of various FFE mitigation strategies with a detailed benefit cost model Water utility engineers fire fighting professionals and emergency response planners will benefit from reading this book

**Lifeline Performance of El Salvador Earthquakes of January 13 and February 13, 2001** Le Val Lund, Carl Sepponen, 2003-01-01 Prepared by the Council on Disaster Reduction and Earthquake Investigation Committee of Technical Council on Lifeline Earthquake Engineering of ASCE This TCLEE Monograph details the effects of two earthquakes that occurred in El Salvador on January 13 and February 13 2001 The first earthquake had a magnitude of 7.6 and the second had a magnitude of 6.6 Catastrophic damage was estimated at 1.6 billion Significant lifeline disruption was the result of landslides which closed the major Pan American Highway and the highway to the international airport and disrupted power communication street lighting roads and water systems

**San Simeon Earthquake of December 22, 2003 and Denali, Alaska, Earthquake of November 3, 2002** Mark Yashinsky, 2004-01-01 Prepared by the Earthquake Investigations Committee of the Technical Council of Lifeline Earthquake Engineering ASCE This TCLEE Monograph summarizes the damage done to various lifelines from the 6.8 Mw earthquake that occurred in the coastal waters off the Boumerdes Department east of Algiers Algeria on May 21 2003 An estimated 2 266 people were killed

10 260 injured and more than 200 000 left homeless Many of the three to five story reinforced concrete apartment buildings less than three years old were destroyed by either total or partial collapse Topics include geosciences and geotechnical engineering general building damage potable water systems power systems the highway system ports and airports railroads communication systems oil and liquid fuels hospitals and emergency response Readers will benefit from the lessons learned sections which analyze other lifeline systems and compare expected earthquake performance thus helping to minimize damage save money and reduce recovery time *Case Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures* Mourad M. Bakhoun,2010 **Atico, Peru, Mw 8.4 Earthquake of June 23, 2001** Curtis L.

Edwards,2003-01-01 Prepared by the Post Earthquake Investigation Committee of the Technical Council on Lifeline Earthquake Engineering of ASCE In the late afternoon of June 23 2001 a colossal earthquake with a magnitude of 8.4 MW took place in the coastal waters off the District of Arequipa and the town of Atico Peru The magnitude of the event made it the largest in the world in the previous 25 years This earthquake caused nearly 2 000 deaths and 3 000 injuries 26 000 homes were destroyed 34 000 homes were damaged and 190 000 people were left homeless This report highlights results of a reconnaissance to investigate the damage and impacts to the various lifelines water railroads highway systems power systems airports and communications The main geotechnical feature of this event was shaking induced landslides rock falls and subsidence associated with poorly compacted fills steep cut slopes and differential settlement at cut fill interfaces

**Zemmouri, Algeria, MW 6.8 Earthquake of May 21, 2003** Curtis L. Edwards,2004-01-01 Prepared by the Earthquake Investigations Committee of the Technical Council of Lifeline Earthquake Engineering ASCE This TCLEE Monograph summarizes the damage done to various lifelines from the 6.8 Mw earthquake that occurred in the coastal waters off the Boumerdes Department east of Algiers Algeria on May 21 2003 An estimated 2 266 people were killed 10 260 injured and more than 200 000 left homeless Many of the three to five story reinforced concrete apartment buildings less than three years old were destroyed by either total or partial collapse Topics include geosciences and geotechnical engineering general building damage potable water systems power systems the highway system ports and airports railroads communication systems oil and liquid fuels hospitals and emergency response Readers will benefit from the lessons learned sections which analyze other lifeline systems and compare expected earthquake performance thus helping to minimize damage save money and reduce recovery time Transactions of the American Society of Civil Engineers American Society of Civil Engineers,2003 Vols 29-30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A-F papers of the International Engineering Congress St Louis 1904 **American Book Publishing Record** ,2003 *Book Review Index* ,2004 Every 3rd issue is a quarterly cumulation Sandia National Laboratories/New Mexico ,1999 The Impact of Waste Storage and Disposal on Ground-water Resources ,1982 Books in Print Supplement ,2002 **Water Treatment Plant Design** American Society of Civil Engineers,American Water Works Association,1998 A reference work to the design and

construction of water treatment plants This edition incorporates current EPA standards and developments in the field New chapters place more emphasis on design planning assembly rehabilitation operation and maintenance of treatment plant facilities     **Water Treatment Plant Design** American Water Works Association,American Society of Civil Engineers,2004-12-02 The classic reference on water treatment plant design and modernization is now completely updated to reflect the 21st century regulatory environment and post 9 11 security concerns The industry standard reference for water treatment plant design and modernization has been updated to include hot topics such as security and design vulnerability assessments and planning against vandalism and sabotage as well as the latest information on codes regulations and water quality standards     **Gambling with Groundwater** ,1998     **EPA Publications Bibliography Quarterly Abstract Bulletin** United States. Environmental Protection Agency,1995-10     **Government Reports Annual Index** ,1991     **EPA Publications Bibliography** ,1995     Government Reports Announcements & Index ,1996-12

## Unveiling the Power of Verbal Art: An Emotional Sojourn through **Seismic Screening Checklists For Water And Wastewater Facilities**

In a world inundated with monitors and the cacophony of fast conversation, the profound energy and mental resonance of verbal art often disappear in to obscurity, eclipsed by the regular assault of noise and distractions. Yet, set within the musical pages of **Seismic Screening Checklists For Water And Wastewater Facilities**, a interesting perform of literary beauty that pulses with natural emotions, lies an unforgettable trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, this interesting opus guides visitors on a mental odyssey, softly exposing the latent potential and profound influence stuck within the complicated internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is main themes, dissect its interesting writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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