California's Next earthquake are you prepared?

a guide for decision-makers

california is Earthquake country ...



THE PUBLIC WILL WANT TO KNOW WHAT YOU DID TO PREPARE



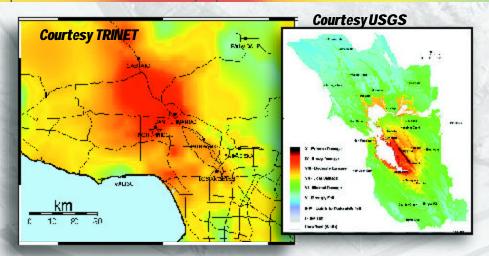
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when they happen, managers will be held accountable!





understand the risk



The potential intensity of future ground shaking is well-known.

A SEISMIC VULNERABILITY STUDY WILL TELL YOU WHAT'S AT RISK

The vulnerability of typical building construction types is also well-known.

□ Find Your	Ground Shaking		
Building Type	Moderate	Strong	Very Strong
Wood Frame	Low	Medium	High
Steel Frame	Low	Medium	High
Tilt-up	Medium	High	Collapse 🎗
Older Concrete Frame	Medium	High	Collapse 🎗
Precast Concrete	Medium	High	Collapse 🎗
Unreinforced Masonry (brick)	High	Very High	Collapse 🎗
Equipment	Medium	High	Very High

Table of Building Vulnerability*

* This table indicates approximate vulnerabilities - specific building vulnerability requires review by a qualified structural engineer.

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upgrade vulnerable facilities



Mill Valley's City Hall and Fire Station both occupied an older, seismically vulnerable

concrete building. The building was upgraded to the level of essential service facility criteria at a fraction of the replacement cost while still preserving its historical value.

New Bracing

Important electrical and mechanical equipment can be costeffectively braced and anchored to



prevent damage and to minimize the potential for prolonged disruption of operations.

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Design New Facilities for Desired earthquake Performance

Designing new facilities to meet specific post-earthquake performance goals is the most cost-effective mitigation measure.



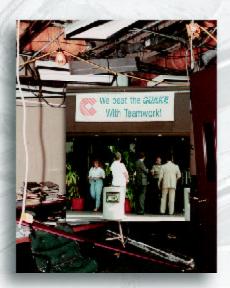
Los Angeles County Fire Department's new Fire Communication & Control Facility (FCCF) was constructed using performance-based design criteria, exceeding that provided in the conventional building code. This baseisolated building is expected to remain fully operational following a severe earthquake.

Viscous dampers were integrated into the 15story steel frame of the new Hiram W. Johnson State Office Building in San Francisco to provide assurance that governmental services would be available in the immediate post-earthquake period.



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develop emergency response and recovery plans



Following the 1987 Whittier Narrows earthquake, California Federal Savings restored operation of its severely damaged headquarters through implementation of its Emergency Response Plan.

encourage the community to prepare

Rockwell International has adopted strict performance standards for the design of its new facilities and has retrofitted its existing buildings and equipment to minimize future earthquake losses.



Next Steps

- Estimate Your Earthquake Risk
- Develop an Earthquake Loss Reduction Program
- Integrate Loss Reduction into Your Capital Planning
- Identity Mitigation Funding Sources (Consider Insurance Savings, Bonds, Hazard Mitigation Grants, Tax Credits,...)

To Find Out How...



Ask for ...

and



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State of California Gray Davis, Governor

Prepared for the California Seismic Safety Commission by EQE International, Inc.

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Proposition 122 Product 2.2 Earthquake Risk Management: A Guide for Decision-Makers (SSC Report 99-06) Copyright © 1999 California Seismic Safety Commission