

Safety Meeting “Earthquake Safety”



**EDM Services, Inc.
September 2007**

EARTHQUAKE FACTS

- There is a 60% chance that a 6.7 magnitude or greater earthquake will occur in California in the next 30 years.
- The **largest recorded earthquake in the United States** was a magnitude 9.2 that struck Prince William Sound, Alaska on Good Friday, March 28, 1964.
- The **largest recorded earthquake in the world** was a magnitude 9.5 in Chile on May 22, 1960.
- The **earliest reported earthquake in California** was felt in 1769 by Gaspar de Portola 30 miles southeast of Los Angeles.
- Before electronics, spring-pendulum seismometers were used in attempt to record the long period motion produced by quakes. The largest one weighed about 15 tons and there is a medium sized one, 3 stories high, that is still used today in Mexico City.
- The average rate of motion across the San Andreas Fault Zone is about 2 inches a year. Scientist predict that Los Angeles and San Francisco will be adjacent to one another in approx. 15 million years.
- Each year the southern California area has about 10,000 earthquakes. Only 15-20 are greater than magnitude 4.0.



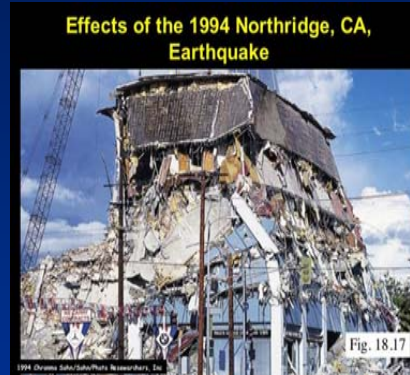
THE FACTS CONTINUED...

- There is no such thing as “earthquake weather”. Statistics show that there is an equal distribution of earthquakes in cold weather, hot weather or rainy weather.
- From 1975-1995 there were only 4 states that did not have any earthquakes-Florida, Iowa North Dakota and Wisconsin.
- Florida and North Dakota have the smallest number of quakes. Alaska has the most experiencing a magnitude 7 quake almost every year.
- Most earthquakes occur at depths less than 50 miles from the Earth’s surface.
- The **world’s deadliest recorded quake** occurred in 1556 in central China. It killed 830,000 people. Another occurred in 1976 killing 250,000 people.
- The San Andrea’s Fault is more than 800 miles long and in some spots as much as 10 miles deep.
- The 1971 quake in San Fernando was a magnitude 6.6, killed 65 people and did over \$505 million in damage.



JANUARY 17, 1994 NORTHRIDGE, CA

- Magnitude of 6.7
- Death Toll = 57
- \$10 billion in damages
- 1,500 people seriously injured
- 12,500 structures were heavily damaged
- 66,546 buildings had to be inspected
- 11 major roads were damaged and shut down to downtown Los Angeles
- Several dozen fires were triggered by the earthquake



Shopping Center



I-5



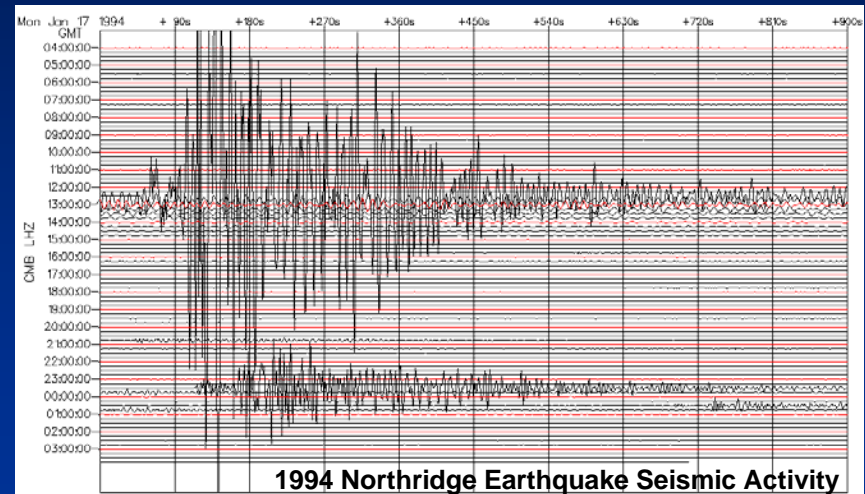
Kaiser – Granada Hills



Northridge Fashion Center

HOW TO PREPARE... FOR AN EARTHQUAKE

- Large machines need to be secured properly so they will not fall over-copiers, plotters, etc...
- Bookshelves and filing cabinets should be secured to the wall
- Heavy items should be stored at lower heights
- Doors exits and aisle ways should be kept clear at all times
- Keep areas under desks and tables uncluttered to make room to take cover
- Fire extinguishers should be charged and inspected yearly
- Periodically test fire alarms, sprinklers and emergency lighting



- Prepare personal emergency supplies for your home, work place and car
- Have emergency plans prepared for your family for both home and work

WHAT TO DO... DURING AN EARTHQUAKE



Hawaii 2006



Drop, cover & hold on



Paso Robles, CA

- Drop, cover and hold on
- Crawl under your desk or stand in the nearest doorway
- Stay away from windows and stay indoors until the shaking stops
- If your outdoors find a clear spot away from buildings, tree's and power lines
- If your in your car, slow down, drive to a clear place and stay in your car until it stops



Mammoth Earthquake Fault

WHAT TO DO... AFTER AN EARTHQUAKE

- When the shaking stops check yourself and others around you for injuries
- Inspect the area around you for damages. If you smell gas turn it off
- Clean up spilled medicines, bleaches, gasoline or other flammable liquids immediately
- Find a radio and listen for instructions
- Use the phone only for life threatening emergencies
- Make sure area is safe and be prepared for after shocks



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I-5 Freeway - Santa Clarita

SURVIVAL KITS

Food Bars
Water
Thermal Blankets
Flashlights
Code Red Batteries

Tissue Packs
Heavy Work Gloves
Tube Tent
Water Purification Tabs
Dust Masks

Vinyl Gloves
First Aid Kit
Safety Whistle
Light sticks
Toilet Chemicals



Northridge, CA



Destroyed Apartment Buildings

EMERGENCY EXITS

