Earthquake: The Question Is When And Where?

SUPER SAVINGS SAL

(First of a two-part series.) By Don Reeves Sentinel Staff Writer

The "if" of a major California earthquake has been replaced by "when" and "where." ies. and such are covered, Nunes said.

familiar with slight quakes, buildings built to these stan which rattle windows, slosh fishbowls and maybe knock a dish or two from the shelves. Many houses are the safest structures. have been in 'quakes which caused some damage and some brace yourself in a doorway, ings split and collapsed. erior terror and destruction.

these little sway and shake may con- ing debris. that tinue until walls crack, ceilings life collapse and chimneys tumble. wear Under the absolute maximum conditions, it might continue until most of downtown Santa Cruz is in shambles, and the Newell Creek dam cracks, sending 2.5 billion gallons of water down the San Lorenzo River to meet an on-coming tsunami or. o oil tidal wave as it leaps from the lling bay to engulf the debris.

> Impossible? Improbable this degree, but not impossible.

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The most remembered California 'quake was the San Franorry, cisco rumble of 1906, but even once, this 'quake took only 452 lives.

Compare this to the 1556 'quake in Shensi, China, where 820,000 people died, the 1737 e in Calcutta, India, 'quake in which 300,000 lives were lost, or the the Northwestern Iran 'quake in orts 1962, where 10,000 died.

The 1964 Alaskan 'quake, as destructive as it was, claimed only 115 lives. An additional 12 people were killed when the the wave it caused crashed through rily Crescent City.

is a Californians have learned to live with the threat of earthher quake just as they have the threats of fire, smog or an atomic bomb attack. Most of them are not about to sell out and move to a safer area, alole thugh some religious groups have done so.

There are some things you can do to prepare for an earthquake. In case of major disaster, these seemingly trivial ved steps may mean the difference between life and death.

If a major 'quake comes, the first lucky factor will be just to be alive when it's over. As e'd for the clean-up, emergency alk hospitals, food centers and the eventual restoration of order, his these matters will be in the or, hands of the civil defense crews, the police and volunteer agento cies and probably the military. You will follow their directions probably by a battery-operated

Whether or not you will be killed depends a lot on where you are when the 'quake hits. The safest place to be when to the world seems to be ending is in an older, single-wall wooden frame house in an open

The most dangerous place would be on a Pacific Avenue sidewalk near older brick buildwould be the first to tumble into the street.

The worst time for the 'quake to come would be on a busy weekday afternoon when streets and buildings are crowded. The best time would be just after dawn when most people would be asleep in their frame homes.

"You can't design a building to withstand the ultimate po-tential of an earthquake," explains Bill Nunes, inspection services supervisor for the City of Santa Cruz.

Nunes has carefully studied earthquakes and the damage they cause. The 1964 Alaskan 'quake has given him and other inspectors a chance to see how buildings built under modern codes hold up. Codes may be changed to make future buildings safe.

Nunes said California has had the Riley Act since 1933, which sets safety standards for "neareverything but residential dwellings which are not for

Garbage Paci

more than two families or over two stories high."

"Public stores, schools, librar-

Nearly all Californians are buildings built to these stand-The Alaskan 'quake showed

Nunes agreed that frame

can tell tales of living through because this is the strongest

are safest, because he was in a major 'quake. one when a major 'quake hit Santa Barbara. He said the

rta Cruz Sentin

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You never know when that table for protection from fall-tule sway and shake may continue until walls crack, ceilings.

George Washington, of Capitola, who has some 40 years of experience as a structural engineer, was asked what would need to be in an earthquake is in a continue until walls crack, ceilings.

George Washington, of Capitola, well, outside of large amounts probability of collapse.

"It's spectacular, of course, and it makes you think this is primarily because wooden frame be in an earthquake is in a the thing which causes the inneer, was asked what would need to be in an earthquake is in a contract of the safest places. neer, was asked what would Nunes knows frame houses take place in Santa Cruz during collapse.

In any building, you should side was injured. Brick build- The wooden frame houses prob- to cause large stresses in the but are primarily the product ably would come out of it fairly structure and create a greater well, outside of large amounts probability of collapse.

"The primary problem in glass is likely to hit you. The Washington said. "There would be basically a many earthquakes is the heavier doorway can distort consider-

"You're much better off if you're out in the open," Washington said.

If you can be outside in an

area where there are no trees.

buildings or power lines to fall

on you, just lie down and ride

The stories of the earth cracking open and swallowing

sorb violent movement without doorway in the interior where juries. The possibility of your none of the ceiling is so likely standing where the earth is goto fall on you and none of the ing to open up is remote,"

> (Tomorrow: What to do if an earthquake hits violently.)

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STARR'S SUPER

wooden cottage was turned one tremendous amount of damage types of structures, by virtue ably and not harm you and you quarter on its foundation, but to the older buildings, includ- of the position of the weight have something to hold on to," still held together. No one in- ing, probably, many collapses, being up in the air, this tends he said.

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