

EARTHQUAKE

IN THE BLINK OF AN EYE
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EARTHQUAKE

- Singles Bar Pick-up Line:

“What’s Your Geology”

- Here’s Your Sign.....

EARTHQUAKE

- Yellowstone Caldera
- Ancient Volcanoes
- “Hot Spot” – No, Not for Release Modeling
- Fault Lines & Mountain Ranges
- Craters of the Moon
- Dams, Rivers, Reservoirs, and Bridges

EARTHQUAKE

- Idaho Falls in eastern Idaho is home to most of the administrative offices, as well as some laboratories of the Idaho National Laboratory (INL).
- The INL Site is an Hour's Travel to the West

EARTHQUAKE

- The State of Idaho recently conducted a 3 day tabletop exercise involving an earthquake originating within the Intermountain Seismic Belt.
- The Belt runs from Montana through eastern Idaho/western Wyoming and Utah, to Arizona. The Belt is approximately 800 miles long and 60 miles wide.

EARTHQUAKE

- A number of counties in eastern Idaho were severely affected by the earthquake.
- This included Idaho Falls in Bonneville County.
- There are 2000 plus INL contractor employees that work in Idaho Falls. Most live within the radius of the quake.
- There are 300 plus DOE employees – many live within the same radius.

EARTHQUAKE

- Idaho Falls Police, Fire Department, and Medical responders are the primary responders to any incident affecting the INL buildings/personnel within the city.
- Local responders are concerned with technical rescues, evacuations, and mass casualties.
- Which gets priority? Elementary school (in session) collapse or office building collapse?

EARTHQUAKE Considerations

- What is your condition?
- What damage was done?
- Winter or summer weather (desert heat)?
- Metro or isolated area?
- Power, natural gas, *sewage, potable water, communications?

EARTHQUAKE Considerations

- Who is asked to stay and who is released from work?
- Condition of roads, bridges, traffic, airports?
- Dams and rivers that could affect the area?
- An earthquake is an operational emergency (OE). Chemical/radiological release?
- Aftershocks and additional damage?

EARTHQUAKE

Responder Timeline

- First 2 hours: primarily situation size up.
- 2 – 12 hours: some help from local responders outside quake area, some State responders, depending on weather and road conditions.
- 12 – 24 hours: other State (Montana, Utah) responders begin to arrive.
- 24 – 72 hours: additional in and out of state responders arrive.

EARTHQUAKE

Responder Timeline

- 72 – 168 hours: federal responders arrive.
- For the first 72 hours responders will be tied up with technical rescues, evacuations, mass casualties, fires started when gas lines break, and chemical releases that threaten people.
- The INL office buildings and laboratories are lumped in with Joe's Radiator Repair and every other business.

EARTHQUAKE FACILITY DRILL

- Emergency Response Facility Not Available
- ERO Assembled Outside In the Elements
- Normal Communications Not Available
- Plans and Procedures In the Wind
- Immediate, Substantial, Competing Priorities

EARTHQUAKE People Problems

- Electronic Accountability Not Available
- It's Cold, Windy, Snowy, Rainy, and Miserable
- Fire and Rescue are Not On the Way
- Ambulances are Somewhere, but Not Here
- Promises, Promises
- What Buses
- Spontaneous Evacuation

EARTHQUAKE DAMAGE

How Do It Know?

- Facility Damage Assessment
- Radiological Concerns
- Chemical Release Concerns
- Protective Actions
- Categorization\Classification
- Emergency Notifications

EARTHQUAKE Conclusion

- Many destructive things happen almost simultaneously when an earthquake occurs.
- Responders, after size up, must be involved in 3 or 4 things at once and there are still not enough to go around.
- An earthquake exercise, depending on the size of the quake and damage caused, may take several days to conduct.

