



NEVADA EARTHQUAKE SAFETY COUNCIL

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TO: Mr. Ron Lynn, Chairman, Nevada Earthquake Safety Council
Board of Directors, Nevada Earthquake Safety Council

FROM: B. Jim Reagan, Chairman, Strategic Planning Committee

RE: Annual Report of activities for Plan Year 2002

I am pleased to provide a summary of activities and efforts achieved by the Standing Committees and members of the Nevada Earthquake Safety Council for the calendar year 2002. In an organization such as this, where membership is derived from dedicated educators, scientists and professionals with a common interest, it is often difficult to measure the progress and successes that have been realized. I'm sure you will agree that we are making substantial progress toward the Mission and Goals of the Council.

Executive Summary:

In 2002 the Council initiated a transition from 5 narrowly defined standing committees to 3 larger and more broadly based standing committees. These new committees are Education, Research and Information, and Policy Recommendations. The development of these committees identified strategies that allow members to work between committees in an integrated effort toward the achievement of the goals. It also provides broader support of committee objectives and greater participation by members of other committees.

The following are the objectives and strategies for the committees for 2002.

EDUCATION

Increase awareness about Nevada's earthquake hazard, the negative effects from earthquakes, how to prepare for earthquakes, and how to respond and recover from an earthquake.

OBJECTIVES:

- Preparedness in our schools, homes, and workplaces
- Earthquake education programs for schools and the citizens of Nevada
- Effective Public Information
- Involve public safety and emergency management representatives in earthquake education and seismic safety programs statewide

STRATEGIES:

- Develop lesson plans or activities for teachers that tie into the existing science curriculum and align with the science standards for the state
- Increase media involvement through partners such as Nevada Broadcasters Association
- Applied Technology Council (ATC) training and formalization
- Expand earthquake awareness in educational sites such as regional science fairs, and speakers bureaus
- Develop information programs targeting public safety, emergency managers, local government executives, and business and industry

RESEARCH & INFORMATION

Support and promote the development and exchange of knowledge relating to earthquakes in Nevada.

OBJECTIVES:

- ❑ Technical information exchange between professionals, managers and the citizens of Nevada
- ❑ Promote post-earthquake technical clearinghouse through planning and established practices
- ❑ Identify all active faults and seismic sources, near major urban areas

STRATEGIES:

- ❑ Provide publications and workshops
- ❑ Planning and special considerations of: Fault Map of Nevada
- ❑ Lifelines and transportation workgroup
- ❑ Nonstructural mitigation drive
- ❑ Create earthquake planning scenarios (Las Vegas and rural areas)
- ❑ Determine potential fault rupture characteristics and maximum earthquakes
- ❑ Inventory unreinforced masonry buildings in Nevada

POLICY RECOMMENDATIONS

Influence policy that promotes earthquake safety.

OBJECTIVES:

- ❑ Cultivate legislative champions and promote legislation adopting seismic safety provisions
- ❑ Promote the adoption of earthquake-hazard guidelines by industry, agencies, and jurisdictions
- ❑ Partner with business sponsors for mitigation projects
- ❑ Expand funding sources for NESC programs

STRATEGIES:

- ❑ Identify potential funding sources such as; Building permit surcharge, Federal grants, Matching fund derived from some obscure state budget item with lower priority
- ❑ Develop a set of model laws that would be presented after a major earthquake occurs in Nevada
- ❑ Develop outreach program and bring business & industry representatives into Council activities
- ❑ Encourage retrofit of essential (economic & lifeline) structures and infrastructure
- ❑ Encourage retrofit of public safety facilities (911 communications, hospitals, fire, law enforcement and ambulance facilities, etc.)

The following are activities and accomplishments for the Standing Committees for 2002 and are presented as a group to represent the integrated effort by all committee and council members working to improve Earthquake Safety in Nevada.

- Distribution of 17,000 copies of the 2001 Earthquake Safety Calendar and 20,000 copies of the 2002 School Safety Calendar to the public and private schools in Nevada
- Coordination of Earthquake Awareness and Mitigation Week Activities, including drills in schools and field trips to examine faults and related earthquake hazards
- Preparation of a tip sheet on “Earthquake Preparedness Suggestions for Hotel and Motel Operators”
- Posting on the Web of Nevada-specific risk-reduction documents—
 - ◆ Nevada Bureau of Mines and Geology Special Publication 27, "Living with Earthquakes in Nevada" (<http://www.nbmjg.unr.edu/dox/sp27.pdf>).
 - ◆ Nevada Bureau of Mines and Geology Education Series E16, "Earthquake in Nevada and How to Survive Them" (<http://www.seismo.unr.edu/ftp/pub/updates/louie/graphics/brochure.html>).
 - ◆ Guidelines for Evaluating Potential Surface Fault Rupture/Land Subsidence Hazards in Nevada (<http://www.nbmjg.unr.edu/nesc/guidelines.htm>)
 - ◆ Guidelines for Evaluating Liquefaction Hazards in Nevada (<http://www.nbmjg.unr.edu/nesc/liquefaction.htm>)
- Review of the USGS's NEHRP probabilistic seismic hazard maps and data on faults
- Service by members of the NESC Board of Directors on the State's All Hazard Mitigation Advisory Committee and the State Hazard Mitigation Plan Steering Committee, and development and refinement of the Nevada Earthquake Risk Mitigation as a component of the State's overall hazard-mitigation planning
- Providing the media with helpful information and scripts that can be used in the event of an earthquake
- Planning for a post-earthquake scientific and technical clearinghouse that will assist response and recover efforts and the collection of information needed to learn how to better mitigate against future earthquakes
- Presentation of awards in excellence for outstanding contributions in such areas as structural and non-structural mitigation, zoning and codes, media coverage, education and outreach, and planning for response and recovery efforts
- Providing support for various projects to reduce risks from earthquakes
- Endorsement of selected policy recommendations of the Western States Seismic Policy Council
- Drafting an earthquake safety bill for the Nevada Legislature to consider in its 2003 session.