

Summary Minutes

Nevada Earthquake Safety Council

25 August 2000

The Nevada Earthquake Safety Council (NESC) met from 9:00 a.m. to 3:27 p.m. on 25 August 2000 at the Desert Research Institute, Las Vegas.

Ron Lynn chaired the meeting. Individuals attending the meeting are members of the Council:

Ron Lynn*, Clark County Building Department

John Anderson*, Nevada Seismological Laboratory,

who also held the proxy for Mike Blakely*, Blakely, Johnson, and Ghusn

Ian Buckle*, UNR Center for Civil Engineering Earthquake Research

Wayne Carlson*, Nevada Public Agency Insurance Pool

Diane dePolo, Nevada Seismological Laboratory,

with proxy for Jim Reagan*, Sierra Pacific Power Company

Craig dePolo, Nevada Bureau of Mines and Geology,

who also held the proxy for Greg Flanigan*, Farmers Insurance

Bob Cullins*

Margie Gunn*, Lincoln County Office of Emergency Management

Debbie Hinman, Nevada Bell, with proxy for Phil Herrington*, Carson City Building Department

Bill Lowry*, Public Utilities Commission

Barbara Luke*, UNLV Department of Civil & Environmental Engineering

Michael Lynch*, Builders Association of Northern Nevada

Greg Moss, The Moss Group, with proxy for Larry Johnson*, Black Eagle Consulting Inc.

Jon Price*, Nevada Bureau of Mines and Geology

Burt Slemmons*, University of Nevada, Reno (retired, Las Vegas consultant)

Charles P. Watson*, Advanced Geological Exploration and Seismo-Watch

Jim Werle, with proxy for Mike Klein*, Converse Consultants

Terri Garside, Nevada Bureau of Mines and Geology

Werner Hellmer, Clark County Building Department

Jason King, Nevada Division of Water Resources

Carolyn Levering, American Red Cross

Mary Manning, Las Vegas Sun

Jim O'Donnell, retired seismologist

Bert Prescott, Division of Emergency Management (DEM)

Keith Rogers, Las Vegas Review Journal

Bill Schulz, State Public Works Board

Renee Tyler, Nevada Power

* indicates member of the Board of Directors.

A quorum of directors (the necessary 11) was present.

Board Members unable to attend or send a proxy included:

Bernie Anderson*, Nevada State Assemblyman

Tom Clark*, Nevada Resort Association

William Cox*, Austin High School

Mark James*, Nevada State Senate

The minutes from the meeting on 19 May 2000 were approved.

COMMITTEE REPORTS Awareness and Education Committee

Diane dePolo provided a written report of committee activities (see enclosure). Electronic copies of this and other reports will be posted on the NESC Web page (www.nbmng.unr.edu/nesc). Diane reported that the committee met once during the last quarter. They discussed possible modifications to the 2001 Earthquake Calendar. April will be Utility Safety Month. October is Home Safety Month.

The committee also discussed Earthquake Awareness Week (February 18-24, 2001) activities. They are looking for a good earthquake-drill video, 5 to 10 minutes. They are also planning local field trips for both northern and southern Nevada. They would like Governor Guinn to do a public service announcement.

Earth Science Week is the second full week of October: October 8-14, 2000, and October 14-20, 2001. Field trips for the public and a number of other activities are scheduled.

John Perry has formed a HAZUS Users Group. HAZUS is a computer program that estimates losses from earthquakes, including dollar values and numbers of injuries and deaths. It is a sophisticated program that was developed by FEMA and is being used throughout the country. Interested individuals should contact him at jperry01@ix.netcom.com.

Debbie Hinman has contacted Raley's about having a regional (multi-state) shopping bag that includes printed information on earthquake hazards.

The Nevada Bureau of Mines and Geology and the Nevada Seismological Laboratory are exhibiting earthquake awareness and mitigation information at the Nevada State Fair. The committee would like to hear suggestions on other appropriate fairs for NESC to attend.

Carolyn Levering announced that the American Red Cross has produced new K-12 curriculum materials regarding disasters. These materials are sold as kits with adequate materials for a whole classroom.

Response and Recovery Committee

Bob Cullins reported that there is a need for Applied Technology Council training. There will be an ATC 20 workshop to train people on how to conduct building inspections after an earthquake (to determine if it is safe to reenter the building), from 1:00 to 5:00 p.m. on Friday, September 22, 2000, at the DEM building, 2525 South Carson Street, Carson City. Please call Bill Schulz at 775-684-4138 to register for this free course.

Engineering and Architecture Committee

No report.

Geoscience Committee

Burt Slemmons reported that the committee did not meet. The committee is preparing a questionnaire regarding use of the NESC fault guidelines in various counties.

John Anderson said that the USGS is beginning to develop its next round of probabilistic seismic hazard maps for the National Earthquake Hazard Reduction Program. These maps feed into national and international model building codes that are generally adopted at the local level. He anticipates that the USGS will hold a workshop this winter to discuss seismic hazards in the Basin and Range province (most

of Nevada and parts of Utah, Arizona, California, Oregon, Idaho, New Mexico, Colorado, Montana, and Texas). The USGS is holding a workshop on Southern California earthquake hazards on September 25-26, 2000. Mark Peterson with the USGS is the lead person for this project.

ACTION ITEM: Ron Lynn charged the Geoscience Committee with providing the Council's input into the USGS process of revising their seismic hazard maps.

Strategic Planning Committee

Jim Reagan was unable to attend the meeting. Ron Lynn mentioned that the Council's strategic plan is posted on the Council's Web page.

Ad Hoc Committee on Recognition of NESC

Marge Gunn reported that she spoke with Frank Siracusa about his feelings on the need for either a legislative or gubernatorial recognition for the Council. The Council discussed whether to press for such recognition, but decided not to act at this time. FEMA and DEM are quite pleased with the accomplishments of the Council as it is currently constituted, as an advisory body for DEM.

Ron Lynn thanked Marge for her efforts and disbanded the committee.

Risk Mitigation Committee

Wayne Carlson reported that the committee met to review the first draft of a risk mitigation plan that Craig dePolo had prepared. Transportation and utility components have been added. Wayne mentioned that one important question that will be asked is: How can seismic hazards be ranked relative to other hazards? John Perry will run HAZUS for some key areas.

Wayne called for nominations for next year's NESC Risk Mitigation Awards. NESC members are encouraged to seek nominations for these awards.

Jim O'Donnell and Wayne Carlson are working on installing seismic instruments in rural schools.

Jon Price stated that Jim Reagan, who was not able to attend the meeting, asked to mention that the Council's Scenario for a Major Earthquake in Western Nevada (Nevada Bureau of Mines and Geology Special Publication 20) will be used in a November earthquake recovery and mitigation workshop. The City of Sparks, through its Project Impact, and Washoe County are helping with funding.

Ron Lynn mentioned that the Religious Liberty Bill of the federal government may wind up exempting religious organizations from state or local building codes and zoning. Local building officials opposed this bill, and the critical issue of adherence to local building codes may be resolved in the courts.

All Hazard Mitigation Advisory Committee (AHMAC) Liaison

Greg Moss reported that AHMAC met in July. John Perry presented the results of a HAZUS run using a magnitude 6.9 earthquake on the Frenchman Mountain fault near Las Vegas. Estimated dollar damage to buildings was \$7.2 billion. Other highlights of the AHMAC meeting were discussions of the Governor's Fire Summit, the Integrated Emergency Management Course for Nevada officials, statewide mitigation efforts, and interest in educational programs such as a natural hazards awareness week and calendar in collaboration with the NESC.

ACTION ITEM: Ron Lynn asked Greg Moss to report back to the AHMAC that the NESC stands ready to discuss joint projects. The general feeling expressed by NESC members was that we do not at this time want to broaden Earthquake Awareness Week to an all-hazards week. Because preparations are underway for the 2001 Nevada Earthquake Calendar, any change to a natural hazards calendar should be for 2002 or later.

Craig dePolo moved that NESC suggest to AHMAC that AHMAC consider organizing a summit, at one or more locations, that would emphasize the major hazards facing the state. The motion passed unanimously.

ACTION ITEM: Greg Moss will relay this suggestion to AHMAC.

Seismo-Watch Update

Charlie Watson reported that in March, DEM contracted with his company, Seismo-Watch, to work on the four projects. He provided updates on these efforts.

1. Continue earthquake information on public access TV in Carson City and SNCAT. These programs include tips from Seismo-Dog, Seismo-Watch's logo and are functioning as expected.
2. Prepare special bulletins for public access TV on earthquakes with greater than magnitude 4. None have occurred in recent months, but the system is ready.
3. Provide free information to rural newspapers. Two weekly newspapers, Lahontan Valley Times (Fallon) and Mason Valley News (Yerington), will carry earthquake reports. The former will have daily graphs as well as graphs showing weekly activity, as in the Reno Gazette-Journal (RGJ).
4. Upgrade and enhance the RGJ Seismo-Watch column. The RGJ is changing its coverage and will put the Seismo-Watch coverage on the weather page, with color.

Nominating Committee

ACTION ITEM: Ron Lynn appointed Jon Price, John Anderson, and Jim Walker to be the Nominating Committee and report back to the Council at the next meeting. The NESB Bylaws call for two-year terms for Board members. Jon Price will send a letter to current Board members asking whether they are interested in continuing to serve on the Council or would prefer to give up their seats for others to participate.

The Council expressed the consensus that some Board members who do not attend regularly should be replaced. Exceptions are the positions for members of the Nevada Assembly and Senate.

Tom Clark is not longer with the Nevada Resort Association and needs to be replaced.

ACTION ITEM: Ron Lynn will ask Bill Bible, executive director of the Nevada Resort Association, for advice on what type of individual would be best to ask to participate in the Council. Suggestions included a representative of the association of chief engineers of casinos, an emergency official from one of the casinos, and someone from one of the larger casinos in the Reno-Carson City area, which has a higher earthquake hazard than in southern Nevada.

William Cox, science teacher from Austin High School, has resigned.

ACTION ITEM: Wayne Carlson will contact school districts in Douglas, Lyon, and Churchill Counties to inquire about appropriate individuals to serve on the NESC Board.

Ron Lynn suggested contacting Dr. Carlos Garcia, the superintendent of the Clark County School District, if an interested rural-county teacher cannot be recruited.

Nevada Earthquake Safety Council Award for Excellence

Ron Lynn presented the NESC Award for Excellence to Keith Rogers, Las Vegas Review Journal, for his April 11, 1999, article on "If the big one hits here, will we be ready?". Keith thanked the Council for its overall efforts and the award that recognized his accuracy in reporting.

IEMC Exercise, Emmitsburg, Maryland

Jon Price, Bill Shultz, John Anderson, Craig dePolo, Bob Cullins, and Bert Prescott discussed the Integrated Emergency Management Course (IEMC) that FEMA presented to Nevada officials during the first week of June. State employees and some representatives from the private sector, local governments, and FEMA participated in an exercise of the Council's Scenario for a Major Earthquake in Western Nevada (Nevada Bureau of Mines and Geology Special Publication 20). Much was learned about how well the State Emergency Operations Center will function during a major disaster.

Ron Lynn mentioned that the lack of an interlocal agreement for jurisdictions throughout the state is an impediment to one local government's sending its employees to another jurisdiction after a disaster occurs.

ACTION ITEM: Ron Lynn asked Bert Prescott to report back to the Council with a model interlocal agreement that would cover disaster assistance, particularly with regard to building inspections.

Greg Moss suggested that Nevada inspectors may also want to be available for out-of-state assistance.

ACTION ITEM: Ron Lynn asked Bert Prescott to report back to the Council with information on the emergency management assistance compact that is being considered by several states.

Bert Prescott reported that Frank Siracusa plans to continue with mock exercises. Frank also wants to have a State Emergency Management Advisory Committee, providing advice to DEM and the Governor's office. They would meet quarterly and have mock exercises. The EM 2000 computer program was a problem during the IEMC; although a good database, it takes too much time to relearn. DEM will be having monthly exercises using EM 2000.

Bert also reported that there will be a public information workshop on September 13 to address issues related to emergency public information and the draft emergency information plan.

The National Earthquake Risk Mitigation Conference will be held September 17-22 in Seattle. Representatives from state seismic safety commissions and earthquake safety councils will meet on Sunday, September 17; there will be field trips on Monday, September 18; and the main part of the meeting will be Tuesday through Thursday, followed by a Western States Seismic Safety Council business meeting on Friday morning, September 22. The conference is sponsored by WSSPC, CUSEC, Northeast Emergency Safety Council, CREW, FEMA, USGS, and NESC, among other organizations. There will be broad discussions about earthquake issues and policy, from science to emergency management to insurance and building codes. Please contact WSSPC by phone (415-974-6435) or e-mail (wsspc@wsspc.org) for information on this conference.

Dam Safety

Jason King, former Chief of the Engineering and Dam Safety Program with the Nevada Division of Water Resources (now Chief of Appropriations with the Division), discussed earthquakes and dams in Nevada. Rob Martinez is taking over Jason's former job as chief of the Dam Safety Program, which has 2.5 full-time equivalent positions.

The state maintains an inventory of approximately 590 dams. Of these, 60 are tailings facilities at mines, and another 107 are mining-related dams for various ponds needed in the mining process. Permits are required for any dam that is 20 feet or higher or that impounds more than 20 acre-feet of mobile water and for other dams that are classified as high hazard (ones that potentially could kill people if they failed). Of the 590 dams about 60 were built before 1950. Some of these were built in areas that at the time had little downstream hazard but now threaten nearby subdivisions. There are about 100 high-hazard dams in Nevada. Of these, about 10 pose significant concerns, primarily because of their age and construction style.

The largest tailings facility in Nevada is projected to be at Barrick's Goldstrike mine. The dam will be 520 feet high and will impound 115,000 acre feet of tails from the mill at the mine site.

The kinds of dam failures that typically occur are overtopping, piping, liquefaction, and downstream sliding. All high-hazard dams are inspected annually. There were questions regarding whether the latest probabilistic seismic hazard maps produced by the U.S. Geological Survey are being used in seismic hazard analysis of dams.

After an earthquake the Dam Safety Program activates checks of dams. Upon receipt of information that an earthquake has occurred, they run a computer program to determine which dams in the state might have experienced large accelerations. They can visit the dams to inspect them or call the owners and ask them to inspect and report.

There are no strong-motion accelerometers at the dams permitted by the Nevada Division of Water Resources. The dams managed by the Army Corps of Engineers and the U.S. Bureau of Reclamation do not need permits from the state; some of them have strong-motion instruments.

The state anticipates developing regulations that would require owners of high-hazard dams to have emergency-action plans. These would include a dam-break analysis and inundation maps for possible dam failure.

The Dam Safety Program has much of its data on its Web site (ndwr.state.nv.us).

The 1996 National Dam Safety Act is up for reauthorization in two years. As part of this act, the Dam Safety Program gets about \$45,000 annually from FEMA to improve the program. Dam-permit fees currently go to the General Fund, not directly to the Program.

John Anderson suggested that there may be help available from UNR and UNLV.

Seismology Update

John Anderson spoke about the earthquakes recorded by the Nevada Seismological Laboratory thus far in 2000 and about the Advanced National Seismic System (ANSS). A surprising development is a northwest trend of earthquakes northwest of Reno. In addition there have been a number of small earthquakes in Fish Lake Valley. Coverage of the northeastern parts of the state remains poor; few small earthquakes are recorded there because there are few instruments to record them.

ANSS is part of the National Earthquake Hazard Reduction Program; funds are appropriated by Congress and given to the USGS for implementation. The USGS operates its own seismic stations and contracts with state agencies and universities that operate regional seismic networks. The USGS is forming regions for administration of ANSS. ANSS is emphasizing earthquake hazards in urban areas. Funding will help expand the seismic networks and increase the number of strong-motion instruments. The USGS plan for ANSS calls for 200 strong-motion instruments in the Reno-Carson City urban area and 100 strong-motion instruments in the Las Vegas area.

On June 19-20, John Anderson attended an Intermountain West Workshop on ANSS. It is not clear whether the states of Arizona and Nevada will be more aligned with California or the Intermountain West (MT, ID, WY, UT, CO, NM, and perhaps TX). The boundaries are fuzzy, and Nevada is likely to participate in both groups. A regional oversight committee will be established to advise each regional working group. The Nevada Seismological Laboratory will remain involved at all stages of development of ANSS.

John Anderson and Walter Arabasz (University of Utah) have prepared a summary of the workshop and posted it on the Web. The Interior appropriations bill that is working its way through Congress for fiscal year 2001 specifically calls for funding for the Reno and Salt Lake City areas. John and Walter will be speaking about ANSS at a breakfast meeting on Thursday, September 21, during the WSSPC meeting and the National Earthquake Risk Mitigation Conference in Seattle.

DEM UPDATE

Bert Prescott mentioned several upcoming events. There will be a Project Impact Mitigation Workshop during the week of November 12 in Washington, DC. For more information, see the FEMA Web site (www.fema.gov).

The Nevada Emergency Managers Conference will be held November 27-30 at the Orleans Hotel in Las Vegas. There will be four days of training. Activities and training courses include the following:

November 28, 8:00 a.m. to noon, Nevada Emergency Preparedness Association conference;

November 28, 8:00 to 5:00 p.m., Course on Decision Making in a Crisis);

November 28-30, Course on Principles of Emergency Management, taught by Bob Cullins;

November 29, 1.5 hours, Course on Incident Command System for Public Officials;

November 29, 4 hours; Course on Hazardous Materials;

November 29-30, Course on Exercise Design;

November 30, 8:00 a.m. to 5:00 p.m., Course on Continuity of Operations

Please call Debbie Bunch at 775-687-4240 to register.

On December 11-15 there will be a Hazmat Training Conference at the Orleans Hotel in Las Vegas.

Three Nevada communities thus far have participated in FEMA's Project Impact - Sparks, Las Vegas, Carson City. The next announcement of FEMA support will probably be in September; Reno and Douglas County have applied.

Kamala Carmazzi reports no news yet on year-end funding to help cover NESC projects for which priorities were set during the May NES grant. The regular NES grant is being processed. In this grant, DEM passes FEMA funds to the Nevada Bureau of Mines and Geology and the Nevada Seismological Laboratory, who match the FEMA funds in their support of NES activities.

The Governor is preparing a wild-land fire disaster declaration, which would be declared through the U.S. Department of Agriculture. Federal funds will be used for reseeding projects, as happened last year.

OLD BUSINESS

None.

NEW BUSINESS

Ron Lynn talked about the meeting of state seismic safety commissions and councils that is scheduled for Sunday, September 17, the day before the National Earthquake Risk Mitigation Conference. He will be chairing the meeting. He asked what NESC would like to get out of collaboration with other earthquake safety commissions and councils. The councils and commissions last met for three days in 1996. Little resulted in terms of on-going communication. Are there opportunities for sharing more information, such as the digital files for publications and videos? John Anderson suggested that there be easy access to all the laws that other states have passed regarding earthquake safety. Craig dePolo asked to know what is the short list of key partnerships, incentives that really work for mitigation, reasons for partnerships with other state councils. Mary Manning suggested that the major industries get more involved (in Nevada, that includes the casinos, utilities, and the airport). Ron Lynn also suggested that there be more of an all-hazards concept among the councils.

Ron Lynn suggested that every inspector who functions under Nevada law regarding building inspections receive the ATC training. The Council could buy the ATC course (the slides) and train a trainer. Books cost about \$33 each; the slides probably cost about \$300.

The following motion passed unanimously: The NESC should purchase copies of the slides for the ATC-20 course so that Nevada building officials can be trained to teach the course to one another.

Ideally the instructors should be structural engineers or building inspectors who have worked as inspectors after earthquakes.

ACTION ITEM: Terri Garside will arrange to purchase the slides for the ATC-20 course.

Ron Lynn announced that Bob Wallace, retired scientist with U.S. Geological Survey and current member of the research faculty at the Nevada Seismological Laboratory, is being honored on September 8, 2000, when the U.S. Geological Survey dedicates its new earthquake research center in Menlo Park as The Robert E. Wallace Earthquake Center.

ACTION ITEM: Ron Lynn will write Bob Wallace a congratulatory letter from NESC.

Ron Lynn discussed two items from the July 2000 issue of the magazine "Automated Builder." One was an article that described "plywood crystal" structures, which could be used for shelters after a major earthquake. The other item was an advertisement for a book on shelter construction.

Suggestions for future speakers at NESC meetings include Walter Arabasz, University of Utah, about Utah's efforts in earthquake safety; Ann Turner, City of San Francisco, about their program of post-earthquake inspections for rapid business recovery; Ian Buckle, UNR Earthquake Engineering; and more discussions on bridges and roads.

OTHER ANNOUNCEMENTS

The next meeting of the Nevada Earthquake Safety Council will be from 9 a.m. to 4 p.m. on Friday, November 17, 2000 in Reno (UNR Journalism Building). The following dates have been selected for meetings in 2001:

February 23, 2001 in Las Vegas

May 18, 2001 in Reno

August 24, 2001 in Las Vegas

November 16, 2001 in Reno

The International Council of Building Officials will hold its annual meeting in San Francisco on September 5-9, 2000.

The Institute for Business & Home Safety is holding its 7th annual congress September 13-15, 2000 in Newport, Rhode Island.

The California Department of Conservation is holding a seminar on utilization of strong-motion data on September 14, 2000 in Sacramento. COSMOS, the Consortium for Strong Motion, is holding a meeting the following day, September 15, 2000.

The Association of Engineering Geologists will be hosting its annual meeting, jointly with the American Institute of Professional Geologists, in September 2002 in Reno.

REVIEW OF ACTION ITEMS

The Geoscience Committee (Burt Slemmons, Chair; John Anderson and other technical experts as members) is charged with providing the Council's input into the USGS process of revising their seismic hazard maps.

Greg Moss (NESC liaison to AHMAC) should report back to the AHMAC that the NESC stands ready to discuss joint projects. The general feeling expressed by NESC members was that we do not at this time want to broaden Earthquake Awareness Week to an all-hazards week. Because preparations are underway for the 2001 Nevada Earthquake Calendar, any change to a natural hazards calendar should be for 2002 or later.

Greg Moss should also report that NESC unanimously passed a motion to suggest that AHMAC consider organizing a summit, at one or more locations, that would emphasize the major hazards facing the state.

The Nominating Committee (Jon Price, John Anderson, and Jim Walker) should report back to the Council at the next meeting. The NESB Bylaws call for two-year terms for Board members. Jon Price will send a letter to current Board members asking whether they are interested in continuing to serve on the Council or would prefer to give up their seats for others to participate.

Ron Lynn will ask Bill Bible, executive director of the Nevada Resort Association, for advice on what type of individual would be best to ask to participate in the Council. Suggestions included a representative of the association of chief engineers of casinos, an emergency official from one of the casinos, and someone from one of the larger casinos in the Reno-Carson City area, which has a higher earthquake than in southern Nevada.

Wayne Carlson will contact school districts in Douglas, Lyon, and Churchill Counties to inquire about appropriate individuals to serve on the NESB Board in the Education position.

Bert Prescott should report back to the Council with a model interlocal agreement that would cover disaster assistance, particularly with regard to building inspections.

Bert Prescott should report back to the Council with information on the emergency management assistance compact that is being considered by several states.

Terri Garside will arrange to purchase the slides for the ATC-20 course.

Ron Lynn will write Bob Wallace a congratulatory letter from NESB.

Enclosures:

Education and Awareness Committee Report, 25 August 2000.

Please also see the NESB Web site (www.nbmng.unr.edu/nesc) for electronic versions of these minutes and related documents.

respectfully submitted by Jon Price, 6 September 2000.

NEVADA EARTHQUAKE SAFETY COUNCIL

Members of the Board of Directors, as 25 August 2000

Business and Industry

vacant

Nevada Resort Association

Business and Industry

Michael Lynch

Builders Association of Northern Nevada

Insurance Industry

Greg Flanigan

Farmers Insurance

State Government

Bill Lowry

Public Utilities Commission

Local Government

Wayne Carlson

Nevada Public Agency Insurance Pool

Local Government

Margie Gunn

(NV Assoc. of Counties) Lincoln County Office of Emergency Mgmt

Seismology

John Anderson

Nevada Seismological Laboratory

Geosciences

Burt Slemmons

Las Vegas consultant, UNR (retired)

Geosciences

Jonathan G. Price

Nevada Bureau of Mines and Geology

Engineering

Mike Blakely

Structural Engineers Association of NV

Engineering

Mike Klein

Converse Consultants

Education

vacant

Community Organizations

Bob Cullins

Community Organizations

Jim Reagan

Sierra Pacific Power Company

University

Ian Buckle

UNR Center for Civil Engineering Earthquake Research

University

Barbara Luke

UNLV Dept. of Civil & Environmental Eng.

Building Official

Ronald L. Lynn

Clark County Building Department

Building Official

Phil Herrington

Carson City Building Department

State Senate

Mark James

Nevada State Senator

State Assembly

Bernie Anderson

Nevada State Assemblyman

Member at Large

Larry Johnson

Black Eagle Consulting Inc.

Member at Large

Charles P. Watson

Advanced Geological Exploration

Members of the Executive Committee, effective January 1, 2000

Chair

Ronald L. Lynn

First Vice Chair-South

Burt Slemmons

First Vice Chair-North

Mike Blakely

Second Vice Chair-South

Bob Cullins

Second Vice Chair-North

Larry Johnson

Secretary

Jonathan G. Price

Past Chair

John Anderson

Division of Emergency Management

Representatives

Jim Walker & Bert Prescott

Education and Awareness Committee Report

August 25, 2000

Diane dePolo Chairman

Debbie Hinman, D.D. LaPointe, Jim Reagan

Bob Cullins, Renee Tyler, John Perry

The Education and Awareness Committee met once on July 13, 2000. Sierra Pacific Power Company and Nevada Power provided televideo conference facilities.

Earthquake Safety Calendar 2001

Theme "Secure Your Future - Shake Don't Break"

Reviewed calendar month by month. Add graphics to January; radio, flashlight, fire extinguisher...

Put puzzle in place of questions for February.

March UNR College of Engineering - Shake Table, Mobile Engineering Lab (Mel).

Utility Safety - April - Electricity, Gas, Water

May take out surface wave discussion, move faults from June to May.

June new sponsor space.

July take out magnitude discussion. Include Modified Mercalli scale and exercise to make an isoseismal map from description of an "old" earthquake.

PACT/POOL sponsor August - change mission statement

September AEG sponsor?

October Home Earthquake Safety - add graphics.

November Nonstructural Hazards - change graphics.

December Sponsor space, moment magnitude discussion. Poster Contest 2001 Theme "Hunt Your Hazards"

Poster Contest 2002 Theme "Make A Plan"

Fewer questions, larger type.

Remove numbered earthquakes from map on back. Clean up base map (remove some cities, some roads).

Remove earthquakes outside of Nevada.

Add north arrow

Use real waveform - clear P and S wave to "tie together".

Earthquake Awareness Week 2001 Include crossword, word search, and other activities with regular mail-out to schools.

Radio broadcast of statewide earthquake drill.

Milk cartons - Model Dairy, Andersen Dairy.

Continue search for an appropriate "drill" video.

Plan local field trip for northern and southern Nevada (faults of the area).

Contact local hardware stores to see if they will provide some workshops for home mitigation (strap water heater, secure bookshelves, secure file cabinets, install "kiddie latches" for kitchen and bathroom cabinets). Have a display where people could obtain the materials and one-page "how to" sheets.

PSA by Governor Guinn

Other Activities What fairs and expos should we attend:

Children's Fair - Reno Spring 2001

State Fair - Reno late summer 2000, 2001

Logandale County Fair

Career Days?

Ordered and have received 45 FEMA Kids CD's. Hope to distribute to rural schools.

Have ordered 50 more copies of Tremor Troops and Seismic Sleuths.

D.D. LaPointe received training on a new middle and high school earth science curriculum produced by the National Science Foundation and the American Geological Institute.

John Perry has formed a HAZUS users group and has contacted Ron Hess from the Nevada Bureau of Mines and Geology and Feng Su from the Nevada Seismological Laboratory both are interested in participating. Please contact John Perry by e-mail jperry01@ix.netcom.com if you are interested in joining this group.

John Perry is waiting for a version of HAZUS (due out in September) that corrects several bugs in the output displays before he runs some scenarios for Wayne's committee.

Earthquake Preparedness training for Child Care Providers.