



Michael O. Leavitt  
Governor

T. Leslie Youd  
Chairperson

# State of Utah

## UTAH SEISMIC SAFETY COMMISSION

Staff:  
Utah Geological Survey  
2363 South Foothill Drive  
Salt Lake City, Utah 84109-1491  
Phone (801) 467-7970  
FAX Line: (801) 467-4070

Utah Division of Comprehensive Emergency Management  
State Office Building, Room 1110  
Salt Lake City, Utah 84114  
Phone (801) 538-3400  
FAX Line: (801) 538-3770

### UTAH SEISMIC SAFETY COMMISSION

October 26, 1995

State Office Building Rm. 5112

Minutes

#### Members Present:

Chair, Les Youd	Professor, BYU Civil Engineering Department
Lee Allison	Director, Utah Geological Survey
Walter Arabasz	Director, University of Utah Seismograph Stations
James Bailey	Structural Engineers Association of Utah
D. Douglas Bodrero	Commissioner, Department of Public Safety
Rep. Peter Knudson	Utah House of Representatives
Sen. Craig Peterson	Utah State Senate
Barry Smith	Western Mountain Region American Institutes of Architects
Suzanne Winters	Science Advisor, Governor's Office of Planning and Budget

#### Members Excused or Not Present:

Ken Bullock	Director, Utah League of Cities and Towns
Lorayne Frank	Director, Division of Comprehensive Emergency Management
James Golden	Assistant Chief Structural Engineer, Department of
Transportation	
William E. Juszczak	Division of Facilities Construction and Management

#### CEM Staff Present:

Bob Carey	EPICENTER Program Manager, Natural Hazards Section
Don Cobb	Natural and Technical Hazards Bureau Chief
Brenda Edwards	Office Technician, Natural Hazards Section
Judy Watanabe	State Floodplain Manager, Natural Hazards Section

#### UGS Staff Present:

Gary Christenson	Applied Geology Manager, Utah Geological Survey
Janine Jarva	Senior Geological Technician, Utah Geological Survey



## **UTAH SEISMIC SAFETY COMMISSION**

**October 26, 1995**

**State Office Building Rm. 5112**

### **Minutes**

#### **Members Present:**

Chair, Les Youd	Professor, BYU Civil Engineering Department
Lee Allison	Director, Utah Geological Survey
Walter Arabasz	Director, University of Utah Seismograph Stations
James Bailey	Structural Engineers Association of Utah
D. Douglas Bodrero	Commissioner, Department of Public Safety
Rep. Peter Knudson	Utah House of Representatives
Sen. Craig Peterson	Utah State Senate
Barry Smith	Western Mountain Region American Institutes of Architects
Suzanne Winters	Science Advisor, Governor's Office of Planning and Budget

#### **Members Excused or Not Present:**

Ken Bullock	Director, Utah League of Cities and Towns
Lorayne Frank	Director, Division of Comprehensive Emergency Management
James Golden	Assistant Chief Structural Engineer, Department of Transportation
William E. Juszczak	Division of Facilities Construction and Management

#### **CEM Staff Present:**

Bob Carey	EPICENTER Program Manager, Natural Hazards Section
Don Cobb	Natural and Technical Hazards Bureau Chief
Brenda Edwards	Office Technician, Natural Hazards Section
Judy Watanabe	State Floodplain Manager, Natural Hazards Section

#### **UGS Staff Present:**

Gary Christenson	Applied Geology Manager, Utah Geological Survey
Janine Jarva	Senior Geological Technician, Utah Geological Survey

**USSC Minutes**  
**October 26, 1995**  
**Page 2 of 8**

**Call to Order**

Chairman Les Youd called the meeting to order at 9:07 a.m..

**Review of Minutes**

There were no comments or corrections on the minutes.

<b>Motion:</b>	<b>Approve minutes as presented.</b>
<b>Moved by:</b>	<b>Lee Allison</b>
<b>Seconded:</b>	<b>Barry Smith</b>
<b>Motion Carried:</b>	<b>By a Quorum</b>

**Status of task assignments from July 11, 1995 meeting**

**Committee Structures:** Committee members for the Geoscience standing committee (Walter Arabasz, chair) and the Engineering and Architecture standing committee (Jim Bailey, chair) were presented to Les and approved. Lee clarified that members could be added to the committees at any time and there was no limit to the number of members on the committees. Les stated that he wanted to be as flexible as possible. Walter asked if there was a recommendation on the committee size due to wording in the minutes. Lee responded that there was no intent to restrict the size of the committees and there is flexibility in the committee size. Les also commented that the intent was not to limit but to have a working group that can be productive but not unduly large. Jim proposed that another standing committee be formed for lifelines including Mt. Fuel, Utah Power and Light, and UDOT. A suggested chair for the lifelines committee is Jim Golden. Peter McDonough (Mt. Fuel) was a suggested member. Commissioner Bodrero suggested that US West and State ITS be a part of the lifelines committee.

<b>Motion:</b>	<b>Add Lifelines committee.</b>
<b>Moved by:</b>	<b>D. Douglas Bodrero</b>
<b>Seconded:</b>	<b>Lee Allison</b>
<b>Motion Carried:</b>	<b>By a Quorum</b>

**Charter for Standing Committees**

**Reporting:** The suggested committee charter proposes reporting to the full USSC verbally or in writing at scheduled meetings. Les requested discussion on how much interaction the committees have with the commission. Commissioner Bodrero suggested that there be regular interaction to ensure focus, and no duplication. He also suggested the committee chairs meet bi-annually with the commission to report on the activities of the committees. Les stated that there would be a written report that would be incorporated into the USSC annual report. Walter suggested that the committees create a mission statement with wording to support USSC in an advisory capacity by identifying and reporting on key issues related to policy making. Les suggested that as the mission statements are developed they be circulated through the commission.

**Authority:** The commission concurred that Les approve committee membership and any changes.

**USSC Minutes**  
**October 26, 1995**  
**Page 3 of 8**

Suzanne Winters: Reschedule meeting with the Governor when Senator Peterson can attend.  
Complete.

Lee Allison and Lorayne Frank check with Department heads to gauge support for a USSC staff person in UGS or CEM: Lee reported that there is no interest in state government for adding staff. He suggested that a solution is to bring in an intern and redirect the staff in the two agencies. Due to a cutbacks at USGS, there is likely no additional money available from them.

Rep. Knudson to contact Ken Bullock: Rep. Knudson contacted Ken and expressed the desire of the commission to have ULCT participate and stressed the importance of participation on behalf of cities and towns. Rep. Knudson also talked with Denton Beecher who is the emergency manager for Box Elder County. Denton would like more information particularly to seismic policies and changes. Suzanne will be contacting the Association of counties and ULCT as an educational/informational

Walter Arabasz: Summarize proceedings at meeting with Governor Leavitt and submit to staff for mailing to all members. Complete.

Les - EERI membership application: The forms were handed out at the meeting. Les encouraged the commission members to give consideration to EERI.

Staff

Place annual report and conference on agenda for next meeting: Complete.

Send letter to congressional delegation in support of USGS NEHRP external program: Complete.

Circulate list of committee members: Complete.

Finalize brochure: The is meant as an information item with no formal circulation. Comments due to Gary by November 13, 1995.

Outline contents for annual report: Complete.

Contact NEHRP Coalition regarding USSC participation: Gary has contacted Bob Swain and he said that he has not heard any negative comments but it would take some time to poll the membership. Gary will continue follow-up.

Complete vote on motion to approve UGS to use up to half of USSC budget: Lee commented that UGS would supplement the budget for the intern.

**July 11, 1995**

**Motion:** Authorize UGS to use up to half of the USSC budget appropriated to fund an intern.

**Moved by:** Walter Arabasz

**Seconded:** Jim Bailey

**October 26, 1995**

**Motion Carried:** By a Quorum

**News from FEMA/USGS**

Les spoke about the money requested from the Governor for the DFCM to use for the seismic upgrade of buildings; to first assess the vulnerability, and then to retrofit. Les asked Lorayne to check with FEMA about a 50-50 cost share on the renovate/repair costs. Bob responded that they are not doing that type of mitigation activity. Commissioner Bodrero also commented that FEMA is in the same position as most federal agencies in the budget process and not to expect funding. Lee reported on the NEHRP external grants program in USGS. The House budget bill eliminated 100% of the \$8 million external grants. The Senate proposed keeping \$4 million and that the other \$4 million be redirected internally from the USGS. The Senate version passed in conference committee. The director of USGS informally committed to redirect the \$4 million to the program. The full \$8 million should be restored if President Clinton signs the bill. Suzanne asked the amount that we receive from the grants. Discussion followed and about a half a million dollars is received in the state. Lee commented that the advances in understanding earthquake hazards and the expertise the state has gained is largely due to the USGS external grants program. Les stated that contact still needs to be maintained with USGS in regard to the instrumentation program. We are low on the priority list and we need to make sure that we maintain some support.

Walter presented the publication "Reducing Earthquake Losses" by the U.S. Congress to the commission and commented that it gave a view on where the country is going in terms of geoscience, engineering, and emergency management. He suggested that a copy be purchased for each commission member. Les commented that to him the executive summary suggests that they are moving from science to application. Walter commented that on the national level it is recognized that the initial NEHRP emphasizes research and basic information. The engineering and mitigation areas describe an "implementation gap, taking that knowledge then making a difference." Walter suggested that this is the challenge of the commission, to make a difference with the Utah earthquake information that we have. Les commented the funding for DFCM is a start for them to begin resolving the problems.

**Report on meeting with Gov. Leavitt, Lynne Koga and the Utah Building Board**

Les reported on the meeting with the Governor. Walter Arabasz, Les Youd, Bill Juszczak, and Suzanne Winters met with the Governor for 30 minutes. They reviewed the earthquake hazard in Utah. The Governor was presented with three budget items: 1) \$10.5 million per year for 25 years to DFCM for seismic upgrading of state buildings to initially assess the vulnerability and then retrofit. 2) Strong motion instrumentation program, \$200,000 ongoing to place instruments, and maintain and process the records. Cooperation with private industry was strongly suggested based on their need for the information/instrumentation in their facilities. The UDOT Research Committee placed a high priority to instrument their bridge structures. They have the funding to purchase the instruments but not the capability to maintain them. 3) \$150,000 to improve awareness and education in public schools, businesses, professional groups, communities, and private citizens.

Les asked Suzanne to interpret the Governor's response. She stated that we are fortunate to have a

**USSC Minutes**  
**October 26, 1995**  
**Page 5 of 8**

Governor with vision because many decisions by others now are made to satisfy short-term needs for results. She commented that seismic issues are not short term. The Governor requested that a meeting be held with Lynne Koga, Budget Director, to put the USSC requests on the list of priorities. Because of the Governor's budget guidelines, these items cannot be put in as line items in the agency's budgets. Suzanne was very encouraged by the Governor's response. The meeting with Lynne went well also. The budget meetings with the Governor are ongoing at this point. Sen. Peterson asked how the requests would appear in the budget. Suzanne responded that it was recommended that the money be put into two agencies, one being DFCM and the other was not clear, possibly Natural Resources. Other agencies for the requested budget items were reviewed, and CEM was determined to be one of the other agencies. Commissioner Bodrero then stated that in the first cut of the Governor's budget there was no money in CEM for the USSC items. Lee clarified that this funding was not in agency budget requests, but was outside the department budget process.

Les reported that a presentation was also made to the building board. Sen. Peterson suggested that time be reserved early in the session for the USSC to make presentations similar to the one made to the Governor to the joint caucuses. Rep. Knudson will make arrangements in the House, and Sen. Peterson suggested that Leslie McClean be called to get on the Senate schedule. Sen. Peterson said that a blunt reality is that this may not appear on the Governor's budget. Sen. Peterson also stated that it was good to put the money in the base budget of DFCM because it does not cause the problems that adding an FTE would create. Walter commented that the DFCM initiative is in line with the Building Boards own mission. Sen. Peterson commented that in DFCM it is easier to get funding on a one-time basis but it is very difficult to get it on an ongoing basis. Commissioner Bodrero asked about a one-time item. Sen. Peterson said that he would rather put it in a bond bill for one-time funding, or put it in as a supplemental for one-time funding for surplus. Competition with every other project in the state occurs with the latter process. Sen. Peterson stated that it was good, in retrospect, that he and Rep. Knudson were not there at the meeting because the Governor developed his own support for the initiatives.

One other way to gain support for funding is to stress the UDOT's need for strong-motion detectors along the I-15 corridor and throughout the state. Les suggested that Sen. Peterson speak to Jim Golden and Tom Warren regarding this. Commissioner Bodrero asked if there was any funding available that it could be used for publications in the CEM-EPICENTER program for public awareness. He stated that as earthquakes occur in California CEM's phones are very busy and publication supplies are depleted. Sen. Peterson commented the challenge he (Commissioner Bodrero) has is prioritizing surplus or one time supplemental funding with ongoing priorities and capital needs.

Regarding potential perceived "conflicts of interest" where funding for USSC initiatives goes to agencies represented on the commission, Walter commented that the USSC is unusually constituted compared to commissions in other states. Other states have a larger group from which to draw to constitute their commissions. Sen. Peterson responded that our commission is not different from

other commissions that are neutral politically but are not neutral in their advocacy for earthquake-related issues. He commented further that as commission members it is not inconsistent to advocate necessary revenues to do what the commission deems worthy. He also stated that the Governor has been told what he needs to know and now we need to tell the legislature. Sen. Peterson and Rep. Knudson's responsibility is to help balance earthquake needs with other state needs. Sen. Peterson stated that this is working within the framework of a political system.

Les suggested that a presentation time to the caucuses be scheduled. The staff will take on that responsibility. The next commission meeting will be scheduled before these presentations. Commissioner Bodrero commented that sometimes it is preferable for the legislature to hear from others outside the system. Les stated that the standing committees need to support the presentations to the House/Senate. He also encouraged that professional newsletters be used to gain support for the USSC agenda.

#### **1996 Earthquake Conference**

Les reproduced a proposal from Bob Smith on "Toward The Establishment Of An Integrated Earthquake And Tectonics Research Center" for review and possible inclusion in the annual conference. Walter commented on the EERI conference last November and the participation of scientists. He referred to the gap between scientists and users spoken of earlier and that possibly the commission is dealing with an energy level of a few activists. Commissioner Bodrero suggested that we define the target audience and decide the purpose of the conference. He also brought up that the target audience may have other major meetings. Discussion followed relating successes in prior conferences with technical and general topics. Sen. Peterson referred to a conference held previously on the strong-motion initiative targeting the engineering community. It was more technical but well received. Walter stated that on a national level geoscientists, engineers, and emergency responders are separated. Commissioner Bodrero stated that the elected officials involved in the CEM Public Officials Conference receive information for awareness, but it is not in depth. Les commented that the EERI conference was successful with one day technical and the other non-technical (in topic). Jim Bailey commented that it was a good approach to separate the technical and non-technical. Les commented that the USGS National earthquake hazard maps were being redone and their new maps might be of interest to the technical and non-technical audience. Walter asked what kind of information would be of interest and valuable to Rep. Knudson, Sen. Peterson, and Commissioner Bodrero. Sen. Peterson stated that he liked the split conference. He stated interest in the technical improvements regarding design and building code requirements that affect the practicing professional. Jim commented that the code issues can be very technical and they have their own seminars and conferences. Sen. Peterson commented that the civil engineers are not as involved. Commissioner Bodrero suggested ? have a bit of everything to bring up current technology. Rep. Knudson suggested that the conference bring together the knowledge and wisdom from the scientific community in southern California to update how they deal with these problems. The Public Officials Conference was brought up as an example of a conference that addresses these issues. Commissioner Bodrero responded that it is a multi-hazard conference, not specific to seismic issues.

**USSC Minutes**  
**October 26, 1995**  
**Page 7 of 8**

Sen. Peterson commented that a seismic conference that is not multi-hazard would be very beneficial. Lee commented that the CEM conference is directed more at emergency response and recovery than mitigation. The things that we can do as a society to mitigate hazards don't end up being discussed in an emergency management conference. Lee suggested a multi-phase conference addressing where we stand right now, and where we're going, with breakout sessions. The sessions could be geared towards elected officials, the public, and private business owners. Les suggested that it be more of a state of the State on seismic issues. He also stated we need to define who will be in charge, and how it will be funded. A suggestion of advancing some of the money appropriated to the commission was made. Sen. Peterson suggested that private sector entities who would benefit from the conference such as UP&L and US West be contacted for sponsorship, also Albertsons and Smiths. Mt. Fuel may help by putting an announcement of the conference with their billings. Lee suggested that exhibit space be made available for commercial groups that deal with emergency preparedness and supplies. Another question is the size of the conference. Barry said that their Professional Associations may be able to donate money (AIA, SEAU, and CECU). Sen. Peterson suggested that the staff prepare an outline to present to the commission. Lee suggested that as acting chairman of the Awareness and Education Committee, it may be an appropriate function for the committee to take on organizing the conference. This is a major public outreach activity for the committee. Les commented that all the committees will have a part in the development of the conference. Sen. Peterson suggested coordination so as to not duplicate conference topics or conflict with other conference dates. The USSC conference may be held possibly in late May, if not, then September to November.

<b>Motion:</b>	<b>Lee to chair the 1996 USSC Conference</b>
<b>Moved by:</b>	<b>Suzanne Winters</b>
<b>Seconded:</b>	<b>Barry Smith</b>
<b>Motion Carried:</b>	<b>By a Quorum</b>

**1996 Annual Report**

Gary sent a proposed outline of the annual report in the packet. The annual report will be broken down into sections such as an introduction, accomplishments, and ongoing projects toward carrying out the strategies. Suzanne asked if this report would go to the Legislature. Gary responded that it would go to everyone to document improvements of earthquake safety through the year. Lee stated that this annual report will increase awareness of what industries and agencies have done in seismic preparation. He also stated that it would bring broad attention to the projects that have been done and others that are ongoing.

The questionnaire that is in the packet will be used to collect information for the annual report. Comments on the questionnaire are due back to Gary by November 13, 1995.



**USSC Minutes**  
**October 26, 1995**  
**Page 8 of 8**

**Next meeting:**

Next meeting is set for Thursday January 11, 1996 at 9:00 a.m. before the next Legislative Session.

Minutes respectfully submitted by Brenda Edwards.

**Information Items**

Lee stated that UGS participated in a CEM presentation requested by the new commander of the Tooele Army Depot and asked for an earthquake risk presentation at the Depot. They now recognize that it is the single largest hazard to the Depot and their operation. This is a major improvement from the past. They previously believed that an earthquake was highly unlikely to affect them. Suzanne commented they did not acknowledge the risk. They now are considering earthquake hazards and their plans for the future are ongoing.

Les was in contact with Lloyd, the chairman for the California Seismic Safety Commission, who was contacted by FEMA who wishes to sponsor a meeting with all seismic safety commissions. We may be contacted by FEMA for this next year.

Lee has been asked to represent the USSC at the meeting of the Central U.S. Earthquake Consortium by Les. He will be making a presentation and participate in a panel discussion. The Missouri Seismic Safety Commission is using the Strategic Plan as a model for their state.