

Utah Seismic Safety Commission Quarterly Meeting Minutes

On January 29, 2015, a regularly scheduled quarterly meeting of the Utah Seismic Safety Commission (USSC) was held in the 1st Floor Training Room of the Salt Lake County Public Works Administration Building. Chair Leon Berrett called the meeting to order at 9:00 AM.

Members Present:

M. Leon Berrett, Chair	American Public Works Association
Keith Koper	University of Utah Seismograph Stations
Roger Evans	Utah League of Cities and Towns
Peter McDonough	American Society of Civil Engineers
Enzo Calfa	Division of Facilities, Construction and Management
Kris Hamlet	Utah Division of Emergency Management

USSC Staff Present:

Steve Bowman	Utah Geological Survey
Adam Hiscock	Utah Geological Survey
Bob Carey	Utah Division of Emergency Management
Sheila Curtis	Utah Division of Emergency Management
Judy Watanabe	Utah Division of Emergency Management
Katie LeLaCheur	Staff Recorder

Guests Present:

Walter Arabasz	University of Utah Seismograph Stations
Sheryl Peterson	University of Utah Seismograph Stations
Barry Welliver	BHW Engineers
Kris Pankow	University of Utah Seismograph Stations
Leslie Randle	Citizen

Members Not Present:

Michelle Jones	Association of Contingency Planners
Senator Jerry Stevenson	Utah State Senate
Mark Peterson	U.S. Geological Survey (Ex-Officio)
Doug Bausch	Federal Emergency Management Agency
Josh Sletten	Utah Department of Transportation
Jeremy Achter	Structural Engineers Association of Utah
Rep. Gage Froerer	Utah House of Representatives
Meldee Love	Utah Department of Insurance
Rick Allis	Utah Geological Survey

Welcome and Introduction

Introductions were made of members and guests present. **Roger Evans** made a motion for the approval of the July 17, 2014 Meeting Minutes. The motion was second by **Pete McDonough**. The minutes were approved.

Salt Lake Earthquake Scenario - EERI

Kris Pankow, representing the Utah Chapter of Earthquake Engineering Research Institute (EERI), presented the Salt Lake Earthquake Scenario to the Utah Seismic Safety Commission. FEMA used to give the Earthquake Program Managers funding to do projects, such as running earthquake scenarios. They recently changed how they fund these projects and awarded the funding for this project to EERI. In response, EERI decided to do this project locally. The committee members for this project include Brent Maxfield, Les Youd, Bob Carey, Pete McDonough, Barry Welliver, Steve Bowman, Josh Groeneveld and herself. Kris continued to explain that scenarios provide stakeholders with assessments of the areas and types of structures and lifelines that are at risk for damage. They estimate losses, human casualties, injuries and economic loss. They also identify areas and infrastructures that might sustain little to no damage. This will allow stakeholders to adequately plan where they may be able to respond in the event of a large earthquake. Unfortunately, a scenario is not a prediction of what will happen. It is an estimation of one possible outcome.

For this scenario, a magnitude 7.0 earthquake occurs on the Salt Lake City Segment of the Wasatch fault. This is one of the many types of earthquakes that may happen and is very representative of the type of ground motion that the experts expect. Given what they know about the building stock, it is what they expect in terms of losses as well. The committee believes they fairly representative numbers of what the losses might be. The goal is to prepare to withstand, respond to and recover from the earthquake. The committee wants to put together the numbers for a realistic estimation of what is going to happen so that these three things can be addressed. This document is being written by EERI and they chose the USSC as their audience. Kris provided the Commission with a table of contents of this document for the Commission's review and comment. The scenario that was used for this project is the same one that was used for the 2013 Great Utah ShakeOut. It is a magnitude 7 earthquake with a rupture from Draper to the southern part of Davis County. There is computer modeling of expected ground motion and estimated losses. The committee chose this because everyone is familiar with the ShakeOut scenario. The following numbers are approximations of what will come out of this document:

- Total loss of over \$33 billion
- 84,000 displaced households
- 53,000 people seeking shelter
- \$157 million building replacement values
- 92% of these buildings and 66% of the building value is residential

Walter Arabasz asked Bob Carey to clarify the one hundred and fifty seven million dollar amount. He was concerned that it seemed very low. Kris agreed.

Bob Carey replied that it may be that the way they are reading the numbers from Hazus and this number may very well be billions.

Kris explained that this is the reason she chose not to hand documents to everyone yet. They are still working to pull all of these numbers together. A brief discussion of how the placement of the epicenter would also affect these numbers followed. Kris stated that although the dynamics of the rupture could completely change things, this is something they can't predict. This scenario will be more of an average. FEMA funding requires this project to be completed by the end of February.

Bob commented that the losses are from the main earthquake and are considered to be the starting point in damage. Hazus doesn't model aftershocks where additional losses will occur. He continued that these limitations are discussed in the document. Bob also explained how Hazus creates additional limitations to the scenario. Hazus is limited by the databases that are input into the program. He expressed his belief that these numbers are a first pass and are still already beyond what the state will be able to deal with.

Kris continued with the presentation. The goal of this document is to encourage the state, stakeholders and residents to prepare to withstand, respond, and recover from this event. Kris reminded the Commission that EERI had chosen them as their intended audience and explained that they would make recommendations to the Commission in the document. She asked that the Commission provide feedback about the recommendations given. The recommendations are as follows:

1. Create a taskforce, both public and private, with the assignment of building on the project by adding data to Hazus for more accurate numbers and focusing on critical infrastructure and critical businesses.
2. Use this scenario document in your communications with local jurisdictions, school districts, higher education, private sector businesses and homeowners to inform them of the grim reality following an earthquake.
3. Encourage the adoption of the Building Occupancy Resumption Program (BORP) in all jurisdictions.
4. Ensure that every utility has an action plan that addresses the issues raised in the scenario.
5. Extend the work done for this scenario to more fully engage stakeholders and

- develop a more complete scenario and resiliency plan.
6. Identify critical public facilities and apply seismic risk-reduction strategies.
 7. Advocate for the development of state and local legislation to deal with the unreinforced masonry structures.
 8. Continue to expand and improve information and maps on earthquakes and related geological hazards and make these tools for accessible.
 9. Advocate for continued state/federal support for operating the seismograph stations.

Keith Koper commented that the work the committee has done already is impressive. He then asked about the future of the scenario document. He commented that it sounds like in the long term EERI will turn this project over to the USSC to take the lead.

Pete McDonough responded that the Utah chapter of EERI is a small chapter and it would be more appropriate if the Utah Seismic Safety Commission (USSC) took the lead on this project.

Bob commented that in the past when talking to the legislature about concerns it is important to have a scientific document showing proof that the concerns are valid.

Keith commented that it might be helpful to try to find more funding and try to get an external review.

Bob replied that the document to be refined and taken to a higher level as more information becomes available. This scenario should be ongoing and continually updated with the latest information. He also talked to the Commission about another concern. FEMA is currently updating their Catastrophic Plan. It is being based on the exact same Hazus run as this Earthquake Scenario document. This makes it critical that the numbers from both documents mirror each other. Bob has spoken with FEMA about their information and they are working to keep the information consistent between the documents. If these documents do not present the same information, then both will lose credibility.

Walter stated that the USSC would need to have their own review of the document, before it is finalized for printing, if they plan to vouch for it. He also asked if there are already federal requirement for utilities to have action plans.

Pete replied that there are not. Most probably already do, but it is not mandated.

Kris continued that this document is being written by EERI and will then be handed off to the Commission. At some point, the USSC can decide if they would like to adopt the document or not. The local chapter of EERI is hoping that the Commission will take the recommendations, but EERI will be the ones writing and publishing this document.

Leon asked if the document will have already have been published by the next Commission meeting.

Bob responded that it will be printed and available on the Utah Geological Survey (UGS) website, the Division of Emergency Management (DEM) website and the

Commission's website if they would like. **Leon** commented that the USSC could take ownership of the document, but that he wouldn't be comfortable putting the Commission's name on a document he hadn't personally reviewed.

Bob explained that the EERI is publishing this document. It will have their name on it not the Commissions. The document is intended to be a resource for the Commission to use.

Leon asked about the process for this.

Kris clarified that EERI did not ask the Commission if they wanted this document. They were awarded funding by FEMA to create this document and chose the USSC as their intended audience. The Commission doesn't need to sign off on the document because they are not writing it.

Leon agreed that the Commission could act as a clearinghouse for this information.

Barry Welliver asked if the Commission would be interested in vetting the document and making it their own. The discussion about the possibility and process of the Commission owning this document continued briefly.

Bob pointed out that the Commission is already having its influence on the scenario document because so many Commission members are on the committee that is writing the document. This should ease their concerns about needing to review the document before it is published.

Steve Bowman mentioned that having this document come from EERI validates the issue and concerns that the Commission has already brought up.

Roger Evans expressed his belief that no matter how this works out it will be a win-win. Whenever they do any work with these projects, it is beneficial.

Bob made two last points. This project was initiated by his program and presented to FEMA Region VIII as a project that the State of Utah would like to do. FEMA awarded the funding for this project to EERI. During the EERI conference last year in Anchorage, Bob spoke to Jay Berger, Executive Director of EERI, Les Youd, and Barry Welliver on how to proceed with this project. This is when EERI decided to take this project on. The second point Bob made is that FEMA recognizes Hazus as the only program that can do this kind of work and recognize this product as being valid.

Kris mentioned two requests. First, if there are concerns about any of the recommendations being outside of the mission of the Commission to please let them know. Second, if anyone would chose to review this document please just email Kris and she will provide a copy for review.

Leon stated that he would like a copy.

Sheila Curtis offered to send a copy to everyone on the Commission. Leon expressed his belief that this would be beneficial, not so they can do a technical review but so the Commission members can become familiar with this document.

Update and Plans for Progress Report

Bob gave the USSC an update on the progress report. He is working to put into place a person to write this document. What he would like from the Commission is for each of the Commission members to contribute something from within their organization to the document. Anything the Commission members want to see in the progress report needs to be sent to Bob sooner than later. He would prefer that the Commission drive where this document goes. As soon as the Earthquake Scenario document is completed, the progress report will move forward.

Leon asked that when he is ready, Bob send out an email request to the Commission for their contributions.

Bob stated that this will not be a request but tasking. He stated that his intent is that this document be finished and useful by the next legislative session.

Leon mentioned that he had contacted Senator Stevenson and excused him from the meeting. He exchanged email with Representative Froerer and is hoping to get both to attend the next meeting.

Bob commented that they have a two-year term and may have already served their two years. He will look into it and see if they need to find replacements.

Basin Range Seismic Hazard Summit III

Steve provided the USSC with an update on the Basin Range Seismic Hazard Summit III. The summit conference was put together many years ago to bring together groups of people working on seismic hazards such as geologists, engineers, architects, seismologists, etc. The summit brings these groups together to discuss seismic issues along with any emerging issues and technology transfer. UGS, DEM, Association of Environmental & Engineering Geologists (AEG), University of Utah Seismograph Stations (UUSS), U.S. Geological Survey (USGS), Western States Seismic Policy Council (WSSPC), USSC, the Department of Occupational & Professional Licensing (DOPL) and the Education and Enforcement Fund sponsored the Summit. The Summit included the following:

- Short course on characterizing hazardous faults and how to do a fault investigation
- USGS workshop on evaluating hazardous faults outside of Utah and Nevada
- Seven technical sessions starting out with an overview of needs and going all the way into geodesy
- Field Trip to the G.K. Gilbert Geologic Park, Seismograph Stations, the Capital and the State Emergency Operations Center.

Steve gave a brief report on the attendance of the Summit.

- 35 people attended the short course

- 21 people attended the workshop
- 165 people attended the technical sessions
- 34 people attended the field trip

Steve concluded by telling the Commission that they are planning on publishing a Proceedings Volume this summer. Overall, it was a success and they appreciated all of the support they received especially on the funding side. The funding made the cost as low as possible for the attendees.

Leon asked if the Commission would be able to get a link to the Proceedings Volume placed on their website as soon as it is published. Steve replied that they could. Steve also explained that the last Basin Range Seismic Summit was over ten years ago and a lot of stuff had happened since then.

Bob commented that they gave him a session for Emergency Management.

Steve stated that there were several comments from people who appreciated hearing the Emergency Management side.

Bob spoke briefly about the session and expressed his belief that it went very well.

Leon asked what the plans are for the next conference.

Steve responded that they are going to try to keep it in the 4 to 5 year range.

Keith asked how it was funded.

Steve explained that funding came from Bob and the USSC, DOPL, the USGS sponsored some purchases and attendee registration. They were not trying to make money. The goal was to break even and keep the cost for attendees as low as possible.

SAP Committee Update

Bob gave the Safety Assessment Program Committee Update for Gilbert Gonzales who was not able to attend the meeting. He told the Commission that the committee is addressing the question of who else they would like to let have an inspection card. Discussions are leading to a tiered approach, so that there would be a Tier I and a Tier II credential. They are working to come up with the criteria for getting the card. Bob expects the Commission will see a presentation on these changes, possibly by the next meeting. This will not circumvent anything they are doing now. They would make the change when people renew their cards. Leon asked who is on the SAP Committee. Bob replied that himself aside, they are all locals and include architects, engineers, and building officials.

Schools Update

Barry Welliver began by reflecting back on his involvement with the Commission. He remembered being in a meeting with Walter and others with Governor Huntsman when he asked the group if there was really an issue with earthquakes. Walter responded that if the Governor could afford taking a twenty billion dollar hit to the state's economy, then

they were okay. The economic losses caught the Governor by surprise and that was meaningful for Barry. The Commission's responsibility is for advising the state at the state level. So the vehicle that EERI is using to present the earthquake scenario through the USSC to the state seems appropriate. Barry continued that he was asked to provide an update on three things with schools. The first is relative to the rapid visual screening (RVS) of schools. Several years ago, they went through the process of petitioning the legislature for funding for a statewide survey of all of the seismic vulnerabilities of schools in the state. A few years ago, it finally got onto the Governor's radar and the Governor allocated one hundred thousand dollars for the collection of this data. A committee was formed and includes people from the Utah State Office of Education, small, medium, and large districts, the USSC and the Structural Engineers Association. This committee is known as the RVS Authority. They are responsible for looking at the work that has already been done and for putting it into a program called ROVER. The money was allocated, by the Governor, to fill in the information so that they can then be stronger advocates to the legislature for the dire need for funding for fixing schools. Barry reported about where they are in the process. The \$150,000 was one of two components in a bill that was sponsored by Representative Froerer. The second component was that Districts doing bonding for new schools were required to provide the RVS of the older schools to the USSC. Barry stated that he doesn't know of one district that has followed through on that issue. He recommended that Rep. Froerer be asked to help leverage that information. Barry told the Commission about the meetings with the districts that have happened over the last year. It took time to help the districts that this would be positive for everyone and that this will not be used to condemn districts that hadn't already done this kind of work. Most districts have had the money to have their schools seismically reviewed and know their risks. Over time, some information from the districts has started to trickle in. Bob's office has begun to input that information into ROVER. The real concern is that every school and every district needs to have a professional RVS performed on their buildings for the safety of anyone who may be in those buildings. The Authority viewed the funding from the \$150,000 as monies that can be used to pay engineers to go do RVS of the schools that have not already had this work done. Two firms have been pre-qualified through the process of understanding and have the qualifications to do RVS. So, they have a pool of a couple of firms that can go out and do these screenings. The USSC will eventually be the holders of this information. Barry hopes to be able to update the Commission better on the schools in a future meeting. Ultimately, the project is to move toward being a force within our state for advocating for safe schools.

Barry continued with the second project funded through EERI. EERI has provided a small amount of funding that brings together people who are advocates of school seismic safety with the intent that they do something actionable. The basis of the funding is to create a strategic or action plan where they could engage a

multidisciplinary group of people involved in this issue. Through EERI, they created the School Earthquake Safety Initiative. They met for the first time last year at the National Convention and have created a working strategic plan. There are about 40 interested people and about 20 involved with what is now their executive committee. They are meeting later this month in San Francisco to establish their ground rules for the scope of the work that they are going to be involved with. They originally came up with five initiatives and have since boiled them down to four basic areas of concern. The first of these concerns lumps together safety screening, inventorying and evaluation of schools. There is now a working group that is established to create documents and procedures that will provide people who are unfamiliar with this process with a more straightforward way to accomplish these things. The second working group is code updating and improvements. This was recognition that our building codes do treat schools differently as of the year 2000. They also recognize that there are larger areas, such as gymnasiums, that should be rated higher. These structures will be the kinds of buildings that you would want to put kids in after an earthquake if everything else is damaged. The third group is earthquake education. They are tasked with creating educational materials to go into schools. These materials need to engage the kids and are hands on. They are encouraging the development of these materials through a more structured working group. The last group is safety advocacy in messaging. There is not a good accessible language to what they are talking about with regards to schools. There are many things that engineers talk about, like fluidly, that don't translate well into what people need to know to understand the message about safety for schools. So the last working group really permeates all of them because they want to make sure that they spent a lot of time on this particular issue. They are working to break down the language they use to speak about seismic safety so they are sure that their message is taken seriously. They originally called themselves the School Seismic Safety Initiative. They discovered that people don't relate to seismic and react more to earthquake so they changed it to the School Earthquake Safety Initiative.

The last project that Barry told the Commission about is a multi year project through FEMA called ATC-122. This is a project that works on that last messaging component. It is to create a School Safety Guide for Multi Hazards. The intent here is that FEMA is very concerned about multiple hazards and getting people, who are responsible for schools, to develop policies and action plans about what they need to do. This covers tsunamis, flooding, tornadoes, high winds and earthquakes. So they established a project technical committee that will also meet later this month to kick off that project. This FEMA project was prompted by a number of things including an issue related to drop cover and hold. Recently, a company had developed a product that was basically dropping a steel, moment-resisting frame within corridors of schools. They were promoting themselves to schools as a safe corridor. They were taking people off message and saying if we strengthen the core of your building, all of the kids can run

into the middle of the school and be safe. That maybe true, but as safety advocates know, the where with all of trying to figure out how to train people to run into the corridors or what to do if your not in the corridor that's safe, just takes it off message. FEMA has taken a giant step in saying we need to re-emphasize, as a public entity, this messaging about schools because it gets muddled over the years. The other part that was very encouraging, that inspired this project, is that the 2015 International Building Code now has a requirement that safe rooms are required for schools in high wind zones. This is a significant improvement for kids that live in hurricane prone valleys. People want to take advantage of this and get that information in a document or somehow made publicly so people can make rational decisions. This document will eventually be a messaging product for people, who are decision makers, to use. With that Barry asked for questions and ended his presentation.

Challis Idaho Earthquake, Provo Tremor, Others

Keith spoke to the Commission about recent earthquakes. There was a 3.7 magnitude earthquake near Nephi on December 29th. About 50 people reported that that the felt the earthquake. There were no damage reports. Keith asked the Commission to keep in mind that we get one magnitude 3 or greater per month and about one magnitude 4 or greater per year in Utah. A magnitude 3.7 is a decent sized earthquake for Utah. The University put out a press release and had a sort of call-down procedure. There was a 3.2 aftershock that happened the day after and it wasn't reported quite as much. There has been renewed activity in Idaho. Keith commented on a poster that he brought. It was from an American Geophysical Union meeting that he went to. It describes some of the work they have done and some of the activity that has happened. The reason they are interested, even though it is not in Utah, is that it is right on the edge of the rupture zone from the Borah Peak Earthquake that happened in 1983 and was close to a 7 magnitude. So, this is close to the size of earthquake being used in the scenario that Kris was talking about. There were events that happened in March and April of 2014 near Challis. At the University, they have been working with Mike Stickney from Montana, Bill Phillips and Suzette Pain from Idaho to put seismometers around the area to basically record and better locate these events. The earthquakes had kind of died down after they got the seismometers out so they left one and brought the other ones back. Then they started back up. They have been able to refresh the battery in the seismometer on site and it is recording the renewed activity. The renewed activity is further to the southeast and even closer to the rupture zone of the Borah Peak.

Pete asked if this could be considered an extension of the Wasatch Fault System.

Keith responded that he wouldn't think so. It's called the Lost River Fault Zone or something like that and it is sort of extension of normal faulting, but its not part of the Wasatch fault. It was asked if, because it is so close to the other fault, they have projections that it might set that one off. Keith answered that it is unlikely that it would

happen in exactly the same place because presumably some of the tension that had built up was released in the 1983 earthquake. It could certainly happen a little further down the fault. There is no way to really predict, but it does make people nervous for sure. There is a history of swarm activity around this area in previous years as well, since 1983. There were not serious earthquakes that followed those swarms, so it could be that this is just a swarm that happened and that will go away and that will be the end of it.

Leon asked if the Nephi earthquake was on the same fault as the Provo tremors. \

Keith replied that it is a little south of Provo. He looked at the earthquake that happened before the last meeting and this was the biggest.

Parapet Ordinance and Legislation Updates

Roger gave the Legislation update to the Commission. He explained that if you go online to the Utah State Code and go to 15-A-3-113. It is on the Parapet Ordinance that they got passed. It is very interesting because, ever since he saw the video of the Christchurch Earthquake with this building collapse, he thinks of Rep. Gage Froerer's building because it looks like the building in the video. A couple was sitting at a table on the side of the building and the parapet fell off, crushed and killed both of them. Roger continued that he has been curious and made a habit of stopping at two engineering firms per week. He asks if they are aware of the ordinance and if they have any extra work. It is interesting from a building official's standpoint, he knows a lot of roofing contractors. These contractors have a color-coded map of which jurisdictions require re-roofing permits and which ones don't. Roger explained that he sent this out to all of the building officials when it past along with the modifications made. He always tells people who are owners of URM single family homes that the greatest thing they can do is remove their chimney. That is the thing that will come off first and create a lot of damage. He has a lot of people who call him with questions about it. Roger stated that he wanted the Commission to know that he is monitoring that. He asked that when Commission members get a minute that they make sure they know what it is, look it up in the code and make copies of it. The other thing that Roger spoke to the Commission about is that he has been on a legislative committee for about 30 years representing a different building officials organization. He came up with a Dave Letterman top 10 legislative things that are out there list. He came up with six things this year that will really affect local government. He left copies of this out on the table. Roger didn't explain what is in each bill because he wants the Commission members to read them. They can call him if they have questions.

Leon asked if there is an annual building officials conference.

Roger responded that there are several because there are 3 different chapters of building officials. He tries to make it to some of the meetings. Roger suggested that Brittney Allen from Salt Lake County is the email queen and people will give information

to her and she will send it out to everyone. If you ever want to find out what is happening in the State of Utah just contact her.

Leon suggested that maybe they put her on the agenda to give a presentation.

Roger reminded Leon that he needs Leon to replace him on the PTA Safety and Welfare Committee and Commission. He has been serving on that. It is amazing the calls he gets from parents who want to know if the school that their children are attending is safe.

Leon asked if he has recommendations for replacements that he let him know.

Keith asked Roger to comment of the Parapet issue. There was a law passed a few years ago that the USSC was against. It had a sunset date and Keith wondered if it did sunset.

Roger responded that it didn't sunset, but it was revised several times.

Keith asked if there is a law that makes it possible to get out of reinforcing their parapets.

Roger stated that there are some exceptions. The latest one became effective as of July 1st of 2014. That was the last time it was amended. He is just trying to get people who he works with such as building officials, cities, and counties to enforce it. Last year Roger was involved with the Senator Caucus on getting carbon monoxide detectors in schools buildings, both old and new. This creates a real liability issue if you are not complying with the law. Whether it be RVS, parapets, or carbon monoxide detectors, if you aren't enforcing these things you have serious liability. The discussion clarifying the parapet ordinance continued briefly. Roger is working to get the word out about the Parapet Ordinance.

Leon commented that it seems that there is a problem with a lack of enforcement form jurisdictions.

Roger cautioned that if you get involved, it will drive you crazy.

Leon explained that he would ask if the USSC can be put onto the Utah League of Cities and Towns Conference agenda next fall to present on this issue.

Upcoming Events, Action and News Items

- The UGS is sponsoring Utah Earthquake Working Groups on February 9-10, 2015. The Liquefaction Working Group will be on the 9th and the Quaternary Fault Working Group will be on the 10th.
- Kris Pankow told the Commission about the upcoming EERI sponsored lecture titled "We Just Had a Major Earthquake Where Are Responders and Resources Needed?" David Wald created ShakeMap and PAGER and is an excellent speaker. This lecture will be very useful. It will be February 10, 2015.
- An EERI Short Course on Ground Motion Prediction for Engineers. It will be best practices. David Boore and Ivan Wong will be speakers. The evening before that David Boar will give the EERI Joyner Lecture at the University of Utah. This short

course will be held on March 5, 2015.

- The National EERI Conference in Boston in this last March.
- Bob stated that DEM would be giving two ATC-20 Trainings, tentatively at the Magna Library on May 14, 2015 and August 20, 2015
- National Earthquake Program Managers Meeting will be held in Charleston in May.
- Nevada doesn't have the funding to come to Utah for the joint meeting this year. It was suggested that this year they meet in Reno. This would be where they would be meeting in their normal rotation of meetings. Bob suggests that the Commission seriously consider attending the meeting with NESC holding it in Reno. This meeting would be in November. Leon asked Bob to let Nevada that the Commission would like to do this.

Open Forum

Walter commended all of the Commission members who were in attendance. If they were not all present they would not have a quorum. In that regard, he recommended that they revisit who is on the Commission. Secondly, he recommended that the future agenda not contain acronyms because it is a public document. Lastly, Walter recommended that the Commission website contain a calendar of upcoming events.

Leon commented that Walter's recommendations were a great segway into what he would like to discuss. He would like to get the website updated. The first thing on the website is a list of members and he stated that he would like to reviewed the list of Commission members. They do not have a Commissioner from the American Institute of Architects. Barry will follow up on a replacement for this position. Bob will contact the Association of Contingency Planners about their representative. Kris Hamlet will contact the Department of Transportation about their representative. A bridge engineer should fill this position. Pete will contact the Structural Engineers Association of Utah about their representative. Leon continued that there are other updates that need to be made to the website. Steve is the contact for the website. Leon asked Steve to update everything he can. This should be an ongoing project.

Steve commented that the construction of the website is out of date and needs to be modernized. Currently, the UGS doesn't have the resources to do that.

Leon asked for Steve to bring a list of recommendations and a cost estimate so the Commission can look into their available options. It was suggested that the Commission could possibly take the website update to FEMA as a project. Bob agreed.

Steve commented that if there are any publications that anyone would like to see on the website to send them to him.

Leon asked if anyone had anything else to discuss.

The next meeting will be April 30, 2015.

Pete McDonough made a motion to adjourn the meeting. **Kris Hamlet** seconded the motion. The motion to adjourn was carried.

Leon Berrett adjourned the meeting at 12:00 PM.

DRAFT