

Minutes of the
Nevada Hazard Mitigation Planning Committee
4 August 2009

The Nevada Hazard Mitigation Planning Committee (NHMPC) met from 9:47:p.m.until 12:10 p.m. on Tuesday, August 4, 2009 at City of Reno offices in Reno, Nevada. These minutes and related documents are posted on the Web site for the committee (<http://www.nbmng.unr.edu/nhmipc/nhmipc.htm>).

Attendees included:

Elizabeth Ashby, Nevada Division of Emergency Management (DEM)
Joe Coudreit, City of Reno, Public Works
Joe Curtis*, Storey County
Mike Cyphers*, Henderson Emergency Management
Glen Daily, City of Reno, Public Works
Rick Diebold*, Las Vegas Fire Department
Gary Dunn*, Division of Emergency Management
Terri Garside, Nevada Bureau of Mines and Geology
Karen Johnson, Nevada Division of Emergency Management
Ron Lynn* Department of Development Services, Clark County Building Department
Ward Patrick, State Public Works Board
Branden Pearson, State Public Works Board
Jonathan Price*, Nevada Bureau of Mines and Geology
Jim Reagan*, NV Energy
Michael Rife, State Public Works Board
Jeanne Ruefer*, Washoe County Department of Water Resources
* indicates a member of the Board of Directors.

Members of the Board of Directors of the Committee who were unable to attend include:

Press Clewe*, Washoe County resident
Mike Dondero*, NV Division of Forestry
Gale Fraser*, Clark County Regional Flood Control District
Jim Walker*, Nevada Department of Transportation

WELCOME AND INTRODUCTIONS

Jon Price chaired the meeting. Attendees introduced themselves. A quorum (a majority of the 13 members of the Board of Directors) was present.

APPROVAL OF MINUTES FROM FEBRUARY 17, 2009

The minutes of the 17 February 2009 meeting of the committee were unanimously approved. Minutes of the committee are posted on the NHMPC Web site at <http://www.nbmng.unr.edu/nhmipc/nhmipc.htm>.

REPORT ON SHAKEMAP/HAZUS SOFTWARE WORKING GROUP

Jon Price gave a report on the Shakemap/HAZUS Modeling Software Working Group. FEMA has contracted with the URS Corporation to develop a product that combines Shakemap, a product that the US Geologic Survey produces from earthquake data, and HAZUS, FEMA's loss-estimation model. The end result will be a product that will provide a more accurate calculation of estimated damage from an actual earthquake event.

HAZUS produces an estimate of damage based on an earthquake's location, magnitude, and depth. It then uses assumptions on how seismic waves are attenuated over time, assuming that shaking drops off as you get further away from the epicenter, then produces a report of estimated damage and losses.

Shakemap takes real data from instruments on the ground. It takes that data from numerous instruments and makes a map of the actual ground shaking that should be a more accurate map than the map produces using HAZUS with only location, depth, and magnitude. Shakemap produces a map that can immediately be used by emergency responders to identify where the highest ground shaking has occurred, and likely where most of the damage and injuries should be found. Currently, the two products are not linked, which is the goal of URS and FEMA. They are starting with three test communities; Salt Lake City, Reno, and Seattle.

FEMA and the California Office of Emergency Management are working together to try and automate the linkage of Shakemap to HAZUS. The result will be that in a real earthquake, as soon as the shaking has occurred, the computer program will produce a Shakemap and immediately input the data into HAZUS. Even once this automation is ready, we will need professionals in the Nevada Bureau of Mines and Geology to verify the results.

Wayne Carlson and the Nevada Bureau of Mines and Geology were successful in obtaining a grant from FEMA for compiling a database of unreinforced masonry building in Nevada.

Graham Kent has been appointed as the new Director of the Nevada Seismological Laboratory. John Anderson has stepped down as Director and is currently on sabbatical in Japan.

Elizabeth Ashby reported that there is a vacancy on NHMPC for the position of Local or Multi-Jurisdictional Floodplain Management – Northern Nevada; please let her know of anyone that might be interested in serving.

PLANNING SUBCOMMITTEE REPORT

Elizabeth Ashby and Daphne LaPointe are continuing to update the State Hazard Mitigation Plan. They are working on a compilation of the top five hazards for the State.

They have just started updating Section Three; when it is finished, the Plan update will be completed.

The updated version and an old version of the State Hazard Mitigation Plan are posted on the NHMPC web site (www.nbmjg.unr.edu/nhmpc/nhmpc.htm).

PROPOSAL REVIEW SUBCOMMITTEE

PRESENTATIONS FOR FUNDING UNDER THE HMGP-1738 FERNLEY CANAL BREACH FUNDS

Glen Daily with the City of Reno, Public Works Department, gave a presentation on the Dant Wash Drainage Improvements application.

In January 2005, the Reno area experienced unusually heavy rainfall in the southern portion of Reno. Many of the drainage-crossing structures were not originally designed to handle such a large volume of rainfall and were significantly damaged as a result of that storm event. The proposal is to reconstruct the Pheasant Lane roadway crossing and grade separation structures for the Lake and Last Chance irrigation-canal crossings. When completed, the project will provide for the containment of storm water runoff from the upper portion of the Dant Wash drainage watershed, through the Dant Boulevard Detention

Dam, to the Moana Lane storm drainage crossing and intake structure. The proposed project will cost \$304,000 in federal funds and \$105,300 in non-federal funds for a total project cost of \$409,300.

Ward Patrick, Branden Pearson, and Michael Rife with the State Public Works Board gave a presentation on the Ely Conservation Camp Housing Unit Seismic Upgrade application. The Housing/Administration/Culinary building at the Ely Conservation Camp is a wood framed structure on a concrete stem wall foundation that houses approximately 100 inmates. The proposed project is a complete seismic retrofit in order to bring the building into compliance with current codes. The proposed project will cost \$418,473 in federal funds and \$139,491 in non-federal funds for a total project cost of \$557,964.

The Committee discussed the two proposals and prioritized them.

A Motion to request that the State Public Works Board modify their application to seismic retrofit components for a total request of \$100,000 of federal funding was approved.

Elizabeth Ashby will contact the State Public Works Board to see if they are able to modify their proposal to no more than \$100,000. If they are unable to make the modification by the grant submission deadline, she will contact the City of Reno to see if they can modify their application to increase their scope of work to include \$100,000 in additional improvements to their project.

Elizabeth Ashby reported that there is a total of \$404,000 in federal funds available.

DIVISION OF EMERGENCY MANAGEMENT (DEM) MITIGATION PROGRAM UPDATE

Elizabeth Ashby gave a report on the status of the following funded projects (see attached):

Hazard Mitigation Grant Program (HMGP):

- HMGP1540, Waterfall Fire funding;
- HMGP 1583, S. Nevada Floods;
- HMGP 1629, N. NV Flood;
- HMGP 1738, Fernley Floods;

PDM (Pre-Disaster Mitigation) Grant Program:

- PDM 04/05, HAZUS Data Base Update;
- PDM 06, Elko Band Council Plan;
- PDM 07, awards for plans for Storey, Esmeralda, and Washoe Counties and the Henderson Sewer project;
- PDM 08, Sky Tavern Wildfire water storage tank, Clark County Mitigation Plan Update; and
- PDM 09, Funding requests from the Carson City Fire Department, Douglas County Emergency Management, DEM, and Washoe County Emergency Management.

Elizabeth distributed the new DEM flier *Hazard Mitigation* covering wildfires, earthquakes, floods, and winter storms.

NEVADA'S FLOODPLAIN MANAGEMENT PROGRAM

Kim Groenewold reported that Lincoln, Pershing, Humboldt, Nye, and Douglas Counties are in the process of having their floodplains remapped. Some areas have not been remapped in more than fifteen years.

As a result of the mapping, some of the flood zone boundaries have changed. Homeowners are notified by their mortgage lenders when their homes are rezoned into a flood zone. For homeowners that do not

have a mortgage, they are not notified because they are not required to purchase flood insurance as those with a mortgage are.

A flood insurance expert is assisting in the remapping program. As soon as the revised flood maps become effective, homeowners have until the day before the effective date to purchase flood insurance at a grandfathered rate, so informing property owners in a timely manner is critical.

Jon Price commented that a good use for disaster management funds would be to prepare fliers for the public on flood and insurance issues.

ACTION ITEM: Elizabeth Ashby will invite a representative from the flood insurance industry to give a 30-minute presentation on flood insurance issues at a future meeting.

UNIFIED HAZARD MITIGATION ASSISTANT (HMA) GRANTS

Elizabeth Ashby reported that FEMA is in the process of changing the HMA grant process from one that is competitive-based to a program that provides an allocation to each state and provides an additional allocation based on the state's assessed risk. Nevada may not fare well in this process because some states will receive large allotments based on their risks and repetitive losses rather than the validity of their proposals.

FEMA is looking into increasing the funding for management costs associated with hazard mitigation. The current allotment does not entirely cover the management costs of a disaster.

Due to a lack of staffing, DEM is not ready to prepare an enhanced Hazard Mitigation Plan for Nevada, but hopes to be able to do so sometime in the future.

ANNOUNCEMENTS OF FUTURE MEETINGS

Thursday, November 5, 2009, in Reno at the Great Basin Science Sample Records Library (2175 Raggio Parkway, Reno (Desert Research Institute Campus))

PUBLIC COMMENTS

No comments received.

REVIEW OF ACTION ITEMS

Elizabeth Ashby will invite a representative from the flood insurance industry to give a 30-minute presentation on flood insurance issues at a future meeting.

ADJOURN

The meeting adjourned at 12:10 p.m.

Respectfully submitted by Terri Garside, October 6, 2009

Nevada Hazard Mitigation Planning Committee
c/o Nevada Bureau of Mines and Geology
University of Nevada, Reno/MS 178
Reno, NV 89557-0178
775-784-4415

DIVISION OF EMERGENCY MANAGEMENT

Hazard Mitigation Grant Program

FEMA-1540-DR-NV
DISTRIBUTION

Available Funding

12-Month Lock-In		\$	726,541.00		
	State Management Costs	\$	226,808.97		
	5% Initiative Public Awareness	\$	36,327.00		
	7% Planning Project	\$	50,858.00	\$	50,352.00 Elko Co.
	Regular Projects	\$	412,547.03	\$	413,053.03 SPWB & State Parks

Proposals

Requesting Entity	Federal Award	Expended	Balance	Status as of:	2-Aug-09
State Parks	\$ 87,202.03	\$ 87,202.03	\$ -	Closing site visit scheduled for 7 Aug 09	
Elko County	\$ 50,352.00	\$ 50,352.00	\$ -	CLOSED	
SPWB	\$ 325,851.00	\$ 325,851.00	\$ -	The request for closure is pending at FEMA Region IX.	
Public Awareness	\$ 36,327.00	\$ 36,309.92	\$ 17.08	CLOSED	
Total	\$ 499,732.03	\$ 499,714.95	\$ 17.08		

State Management Costs					
UNR	\$ 42,493.20	34,989.13	\$ 7,504.07		
DEM	\$ 184,315.77	47,232.49	\$ 137,083.28		
Subtotal	\$ 226,808.97	82,221.62	\$ 144,587.35	\$ -	
Total	\$ 726,541.00	\$ 581,936.57	\$ 144,604.43		

Hazard Mitigation Grant Program

FEMA-1583-DR-NV
DISTRIBUTION

Available Funding

12-Month Lock-In \$ 533,519.00

	<i>Allowable</i>	<i>Allocated</i>		Difference
5% Initiative	\$ 26,676.00	\$ 25,851.00	State Parks	\$ 825.00
7% Planning Project	\$ 37,346.00	\$ 37,346.00	UNR Risk Ass.	
Regular Projects	\$ 469,497.00	\$ 469,497.00	SPWB	\$ -
				\$ 825.00

Proposals

Requesting Entity	Federal Award	Expended	Balance	Status as of:	2-Aug-09
State Parks	\$ 25,851.00	\$ 25,851.00	\$ -	CLOSED	
SPWB	\$ 469,497.00	\$ 469,497.00	\$ -	The request for closure is pending at FEMA Region IX.	
UNR Risk Assessmt	\$ 37,346.00	\$ 37,346.00	\$ -	Last reimbursement in process	
Total	\$ 532,694.00	\$ 532,694.00	\$ -		
State Management Costs	\$ 825.00	495.11	\$ 359.18		
Total	\$ 533,519.00	\$ 533,189.11	\$ 359.18		

Hazard Mitigation Grant Program

Proposal deadline: 23-Aug-06

**FEMA-1629-DR-NV
DISTRIBUTION**

			\$625,497.00
Allowable			
5% Initiative		\$31,274.85	
7% Planning Project		\$43,784.79	
Regular Projects		\$550,437.36	

Proposals 5% Initiative

Requesting Entity	Federal Award	Expended	Balance	Status as of:	2-Aug-09
Sparks	\$25,125.00	\$22,872.00	\$2,253.00	Moved to Management Costs	

Proposals Planning

State Plan Update	\$45,675.00	\$37,835.38	\$7,839.62		
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Proposals Regular Projects

Washoe Co School	\$444,017.00	\$33,487.99	\$410,529.01	Closed - \$288,024 Transferred to Mgmt costs	
Reno- Lawton Interceptor	\$ 137,680.00	\$0.00	\$137,680.00	Pending - NDOW approval of project design/NEPA review OK	
Total Requested	\$ 652,497.00	\$ 94,195.37	\$ 558,301.63		

State Management Costs					
UNR - NHMPC support	\$ 150,364.63		\$ 150,364.63		
UNR - Planning Sub. Support	\$ 45,478.73		\$ 45,478.73		
DEM	\$ 95,033.00		\$ 95,033.00		
Subtotal	\$ 290,876.36	\$ -	\$ 290,876.36		

\$ 499,356.36

\$ 178,028.96 Deobligated and returned to FEMA

Hazard Mitigation Grant Program

**FEMA-1738-DR-NV
draft DISTRIBUTION**

Proposal deadline:

12 MONTH LOCK IN AMOUNTS

			\$475,538.00		
Allowable				State Management	\$23,253.81
5% Initiative	\$23,776.90				
7% Planning Project	\$33,287.66		\$14,028.00		
Regular Projects	\$404,445.44				

Proposals 5% Initiative

Requesting Entity	Federal Grant	Expended	Balance	Status as of:	2-Aug-09
URM inventory - NBMG	\$23,776.90		\$23,776.90	Award in the mail for final signatures	

Proposals Planning

Lyon County Plan I	\$33,287.66		\$33,287.66	In process	
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Proposals Regular Projects

Lyon County Plan II	\$14,028.00	\$ -	\$14,028.00		In Process
City of Reno Dant Wash	\$409,300.00	\$ -	\$409,300.00	\$4,854.56	Necessary reduction
SPWB Ely Camp	\$418,473.00	\$ -	\$418,473.00	\$14,027.56	Necessary reduction

Total Requested	\$841,801.00	\$0.00	\$841,801.00		
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State Management Costs	\$23,253.81	304.90	\$22,948.91		
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DIVISION OF EMERGENCY MANAGEMENT

Pre-Disaster Mitigation Grants

2004-2005

Requesting Entity	Federal Grant	Expended	Balance	Status as of:	2-Aug-09
UNR-BMG	\$ 60,063.50	\$ 60,063.50	\$0.00	Last reimbursement in process -ready for closure	

2006

Requesting Entity	Federal Grant	Expended	Balance	Status as of:	2-Aug-09
Elko Band Council	29,115.00	14,525.88	\$14,589.12	FEMA requested revisions to submitted plan-	in process

2007

Requesting Entity	Federal Grant	Expended	Balance	Status as of:	2-Aug-09
Storey County Plan	\$ 26,377.50	\$ 17,563.68	\$ 8,813.82	Final editions	
Esmeralda Co. Plan	\$ 24,949.50	24,725.32	224.18	Final editions	
Washoe Co. Plan	\$ 38,406.75	35,302.14	3,104.61	Update to mitigation strategy completed; 2/3 done	
Henderson Sewer	\$ 377,853.00	0.00	\$ 377,853.00	In process	

Subtotal \$ 467,586.75 \$ 77,591.14 \$ 389,995.61

Management Costs (10% of federal funds received)	\$ 46,758.68	\$ 5,985.64	\$ 40,773.04		
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Total \$ 514,345.43 \$ 83,576.78 \$ 430,768.65

2008

Requesting Entity	Federal Grant	Expended	Balance	Status as of:	2-Aug-09
Reno - Sky Tavern Wildfire	\$ 464,081.50	\$ -	\$ 464,081.50	Pending approval of NEPA review at FEMA	
Clark Co. Mit Plan update	\$ 56,985.42	\$ -	\$ 56,985.42	Awarded	

Subtotal \$ 521,066.92

Management Costs (10% of federal funds received)	\$ 52,106.69	\$ -	\$ 52,106.69		
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Total \$ 573,173.61

2009 - Pending

Requesting Entity	Federal Grant	Expended	Balance	Status as of:	2-Aug-09
Douglas County Emerg. Mgmt.	\$ 643,440.00	\$ -	\$ 643,440.00	FEMA requested additional information prior to NEPA review	
Douglas County Emerg. Mgmt.	\$ 651,100.00	\$ -	\$ 651,100.00	FEMA requested additional information prior to NEPA review	

Subtotal \$ 1,294,540.00

Management Costs (10% of federal funds received) \$ 129,454.00

Total \$ 1,423,994.00

2010 - OPEN and in process

12 notices of intent