NEVADA RESILIENCE COMMISSION

February 19, 2019

Administrative Protocols

[**Agenda Items #1, #2, and #3**]

- ***Agenda Item #1*** - Call to order and Roll Call
- ***Agenda Item #2*** - Public Comment
- ***Agenda Item #3*** - Approval of Minutes – 12/11/18

Agenda Item #4

REVIEW OF CURRENT RESILIENCE COMMISSION BYLAWS

Presenters:

Chief Caleb Cage, Division of Emergency Management

Deputy Chief John Steinbeck, Clark County Fire Department

Agenda Item #5

UPDATE ON CURRENT EFFORTS APPLIED TO THE EMERGENCY MANAGEMENT STRATEGIC PLAN AND DEVELOPMENT OF RESILIENCE GOALS AND OBJECTIVES

Presenters:

Chief Caleb Cage, Division of Emergency Management

Deputy Chief John Steinbeck, Clark County Fire Department

Agenda Item #5 Cont. – Cage/Steinbeck

- **Resilience Defined:** *Proactive, flexible, and unified leadership throughout all four phases of emergency management that allows for Nevada communities to adapt to and grow back stronger from disasters.*
- **State Resilience Goal**: *Nevada will increase resilience across the whole community by focusing on collaboration in policy development, building operational capacity, and maximizing financial resources throughout all four phases of the emergency management cycle.*
- ***Obj 1**: Develop comprehensive policies for all levels of government in order to improve resilience across disciplines and hazards.*
- ***Obj 2**: Improve preparedness for response and recovery operations through a unified, statewide planning, training, and exercise effort, in order to improve resilience before, during, and after actual events.*
- ***Obj 3**: Distribute limited financial resources from various sources with maximum efficiency, predictability, and accountability, in order to best focus on improving statewide resilience.*

NEVADA RESILIENCE COMMISSION

Agenda Item #5 Cont. – Cage/Steinbeck

- **Next Steps**:
  - Incorporate Governor/DPS Strategic Planning Frameworks (when available)
  - Develop Resilience-specific vision statement
  - Develop strategies and milestones for each objective
  - Develop a method for implementation of the plan
  - Develop method/schedule for evaluation, maintenance, and revision of the plan
  - Vote to approve these items during March meetings and after

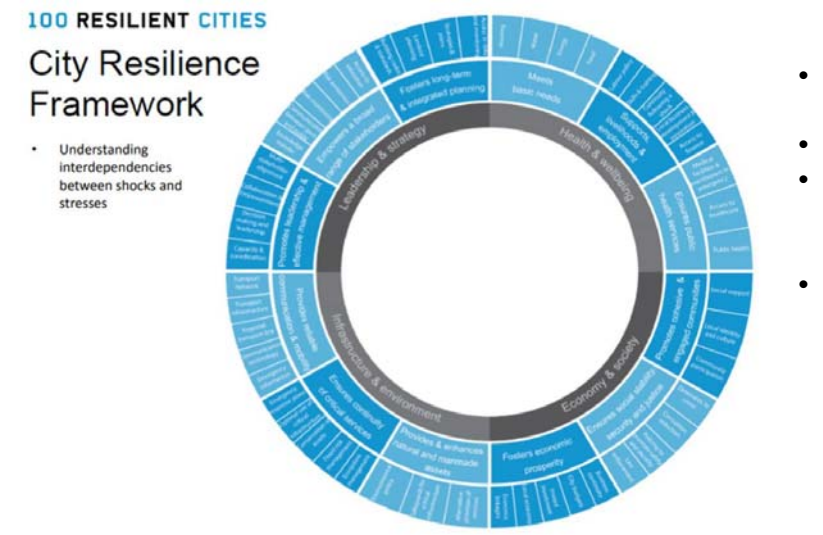
NEVADA RESILIENCE COMMISSION

Agenda Item #5 Cont. – Cage/Steinbeck

A version of the **Resilience Cycle**

(From the New Jersey Resilience Network)

Agenda Item #5 Cont. – Cage/Steinbeck



100 Resilient Cities

- Developed by the Rockefeller Foundation and ARUP
- Both theory and practical
- "City Resilience Framework" addresses building resilience at the city level
- Organizes government systems, policies, and leaders into:
  - 4 Categories
  - 12 Goals
  - 52 Indicators
  - 156 Variables
  - (And 7 Qualities)

Agenda Item #5 Cont. – Cage/Steinbeck

100 Resilient Cities

- **Four Categories**
  - *Leadership and Strategy*
  - *Health and Wellbeing*
  - *Economy and Society*
  - *Infrastructure and Ecosystem*

Agenda Item #5 Cont. – Cage/Steinbeck

100 Resilient Cities

- 12 Goals
- A resilient city is a city where there is or are…
  - **Minimal human vulnerability:** Indicated by the extent to which everyone's basic needs are met.
  - **Diverse livelihoods and employment**: Facilitated by access to finance, ability to accrue savings, skills training, business support and social welfare.
  - **Effective safeguards to human health and life**: Relying on integrated health facilities and services, and responsive emergency services.
  - **Collective identity and community support**: Observed as active community engagement, strong social networks and social integration.
  - **Comprehensive security and rule of law**: Including law enforcement, crime prevention, justice, and emergency management.
  - **Sustainable economy**: Observed as sound financial management, diverse revenue streams, the ability to attract business investment, adequate investment, and emergency funds.

Agenda Item #5 Cont. – Cage/Steinbeck

100 Resilient Cities

12 Goals, Cont'd:

- **Reduced exposure and fragility:** Indicated by environmental stewardship; appropriate infrastructure; effective land use planning; and enforcement of planning regulations.
- **Effective provision of critical services:** Indicated by diverse provision and active management; maintenance of ecosystems and infrastructure; and contingency planning.
- **Reliable communications and mobility**: Indicated by diverse and affordable multimodal transport systems and information and communication technology networks; and contingency planning.
- **Effective leadership and management:** Involving government, business and civil society, and indicated by trusted individuals; multi-stakeholder consultation; and evidence-based decision-making.
- **Empowered stakeholders**: Indicated by education for all, and access to up-to-date information and knowledge to enable people and organizations to take appropriate action.
- **Integrated development planning**: Indicated by the presence of a city vision; an integrated development strategy; and plans that are regularly reviewed and updated by cross-departmental working groups.

Agenda Item #5 Cont. – Cage/Steinbeck

100 Resilient Cities

Seven "Qualities of Resilient Systems":

- **Reflective:** Reflective organizations and systems embrace a changing and uncertain landscape, and they have internal features that allow them to evolve as well.
- **Robust:** Robust systems, designs, and organizations are thoughtfully conceived and developed, and are supported with adequate resources to address the existing and potential threats and hazards.
- **Redundant:** Redundant systems plan for additional capacity that can be employed during times of shock or prolonged disruption.
- **Flexible:** Flexibility refers to mechanisms inherent to a system that allow for changes when conditions change.
- **Resourceful:** Resourceful systems are made up of people who can quickly achieve their goals even if normal procedures and methods are disrupted.
- **Inclusive:** Inclusiveness states that communities are more likely to be resilient if they seek and obtain input from as broad an audience as possible, including vulnerable groups.
- **Integrated:** Integration refers to the alignment of public, private, and other entities toward a single goal and vision.

Agenda Item #6

UPDATE ON THE OUTLINE OF THE 2019 RESILIENCE COMMISSION REPORT

Presenters:

Chief Caleb Cage, Division of Emergency Management

Deputy Chief John Steinbeck, Clark County Fire Department

Agenda Item #6 Cont. – Cage/Steinbeck

Ongoing Annual Assessment

- **PART 1 (2018/2019)**
  - Introduction/Executive Summary
  - Overview to Date
  - Strategic Plan/Resilience Goal/Objs
  - Legislative Changes
- **PART 2 (CY2019)**
  - Overview of Statewide EM Program
  - Combined Threat/Hazard Assessments
  - Grant Program Overview
  - Overview of Statewide P,T,&E Program
  - Overview of Statewide Response & Recovery Efforts

NEVADA RESILIENCE COMMISSION

Agenda Item #6 Cont. – Cage/Steinbeck

Ongoing Annual Assessment

- **PART 3 (2020 and after)**
  - Recommendations for sustainment projects
  - Recommendations for policy changes
  - Recommendations for budget changes
  - Recommendations for operations changes
- **PART 4 (Administrative)**
  - Member biographies
  - Acronym lists
  - Glossary

NEVADA RESILIENCE COMMISSION

Agenda Item #7

BRIEFING ON CURRENT LEGISLATIVE EFFORTS AFFECTING THE STATEWIDE RESILIENCE STRATEGY

Presenters:

Chief Caleb Cage, Division of Emergency Management

Deputy Chief John Steinbeck, Clark County Fire Department

Agenda Item #7 Cont. – Cage/Steinbeck

- **Assembly Bill 71:** Makes various changes concerning expenditures related to disasters and emergencies.
- **Senate Bill 15:** Provides for the establishment of incident management assistance teams.
- **Senate Bill 34:** Revises provisions related to emergency management.
- **Senate Bill 35:** Creates the Nevada Resilience Advisory Committee.
- **Senate Bill 66:** Revises provisions relating to emergency management.
- **Senate Bill 67:** Revises provisions governing local emergency management.
- **Senate Bill 68:** Provides for the expedited granting of certain provisional registrations to volunteer providers of health or veterinary services during an emergency declaration.
- **Senate Bill 69:** Revises provisions relating to emergencies and cybersecurity

NEVADA RESILIENCE COMMISSION

Agenda Item #7 Cont. – Cage/Steinbeck

ASSEMBLY BILL NO. 71 – DRA EAA

An ACT:

- Relating to state financial administration
- Authorizing the Attorney General to enter into an agreement with a tribal government for the provision of grants and loans to the tribal government from the Disaster Relief Account because of a disaster
- Creating a revolving account for the provision of grants relating to owner-occupied homes damaged by disasters
- Authorizing a temporary advance to the Emergency Assistance Account from the State General Fund for the payment of expenses incurred during a state of emergency or declaration of disaster under certain circumstances
- Effective upon passage and approval/ July 1, 2019

NEVADA RESILIENCE COMMISSION

Agenda Item #7 Cont. – Cage/Steinbeck

SENATE BILL NO. 15 – Disaster Assistance Response Team

An ACT:

- Relating to emergency management
- authorizing the Governor or the Governor's duly designated representative to establish one or more incident management assistance teams
- authorizing certain volunteers to serve as members of such teams
- Effective on July 1, 2019

Agenda Item #7 Cont. – Cage/Steinbeck

SENATE BILL NO. 34 – Grant Regulations

An ACT:

- Relating to emergency management
- Requiring the Division of Emergency Management of the Department of Public Safety to adopt certain regulations
- Creating an exemption to provisions requiring certain grant recipients to report funds received for certain purposes to the Nevada Commission on Homeland Security
- Effective upon passage and approval

Agenda Item #7 Cont. – Cage/Steinbeck

SENATE BILL NO. 35 – Resilience Commission

An ACT:

- Relating to public safety
- Creating the Nevada Resilience Advisory Committee
- Setting forth the membership and duties of the Committee
- Providing certain exceptions to the open meeting law
- Requiring the Nevada Resilience Advisory Committee to prepare an annual report and submit the annual report to certain entities
- Authorizing the Nevada Resilience Advisory Committee to appoint subcommittees in certain situations
- Effective upon passage and approval

Agenda Item #7 Cont. – Cage/Steinbeck

SENATE BILL NO. 66 – Disaster ID Team

An ACT:

- Relating to public safety
- Renaming the State Disaster Identification Team as the State Disaster Identification Coordination Committee
- Revising the membership and duties of the Committee
- Transferring the duty to adopt regulations governing the Committee from the Department of Public Safety to the Division of Emergency Management of the Department
- Requiring providers of health care to report to the Committee certain information regarding any person who comes or is brought in for treatment of an injury which appears to have been inflicted as a result of certain emergencies or disasters or an illness which appears to have been contracted during certain health events
- Effective upon passage and approval

Agenda Item #7 Cont. – Cage/Steinbeck

SENATE BILL NO. 67 – Local Emergency Management

An ACT:

- Relating to emergency management
- Creating the Nevada Tribal Emergency Coordinating Council
- Prescribing the membership and duties of the Council
- Revising provisions governing a local organization for emergency management
- Effective upon passage and approval

Agenda Item #7 Cont. – Cage/Steinbeck

SENATE BILL NO. 68 - Licensure

An ACT:

- Relating to public safety
- Providing for the expedited granting of certain provisional registrations to volunteer providers of health or veterinary services while an emergency declaration is in effect
- Effective upon passage and approval

Agenda Item #7 Cont. – Cage/Steinbeck

SENATE BILL NO. 69 – Emergency Response Plans

An ACT:

- Relating to public safety
- Designating the month of October of each year as "Cybersecurity Awareness Month"
- Revising requirements relating to emergency response plans for schools, cities, counties and resort hotels
- Clarifying the authority of the Governor to call members of the Nevada National Guard into state active duty in the event of a significant cybersecurity incident
- Requiring each city or county to adopt and maintain a cybersecurity incident response plan
- Requiring the Nevada Office of Cyber Defense Coordination of the Department of Public Safety to provide certain training and briefings and submit a quarterly report to the Governor regarding cybersecurity.
- Effective upon passage and approval

NEVADA RESILIENCE COMMISSION

Agenda Item #8

UPDATE ON HOMELAND SECURITY GRANT PROGRAM (HSGP) PROJECT PROPOSALS REQUESTING USE OF FEDERAL FISCAL YEAR (FFY) 2016 DEOBLIGATED FUNDING

Presenter:

Kelli Anderson, Emergency Management Program Manager

Grants, Recovery, and Mitigation

Agenda Item #9

BRIEFING ON THE DIVISION OF EMERGENCY MANAGEMENT REOBLIGATION GUIDELINES AND LESSONS LEARNED FROM THE DECEMBER 11, 2018, RESILIENCE COMMISSION MEETING ON THE FEDERAL FISCAL YEAR (FFY) 2016 HOMELAND SECURITY GRANT PROGRAM (HSGP) DEOBLIGATION REQUESTS

Presenters:
Chief Caleb Cage, Division of Emergency Management
Kelli Anderson, Division of Emergency Management

Agenda Item #10

UPDATE ON THE 2018 HAZARD MITIGATION ASSISTANCE (HMA) GRANT CYCLE

Presenters:
Janell Woodward, State Hazard Mitigation Officer
Brian Heller, Assistant Director, City of Reno Public Works
Ward Patrick, Director, State Public Works Board

Agenda Item #10 - Woodward

2018 Hazard Mitigation Grant Cycle

- **HMGP – Post Fire Application Ranking**
  - Due to FEMA January 24, 2019
- **2018 PDM Grant Application Presentations**
  - Due to FEMA January 31, 2019

NEVADA RESILIENCE COMMISSION

Agenda Item #10 - Woodward

HMGP POST-FIRE APPLICATIONS

HMGP Draft List of Applications for HMGP - Post Fire

County	Agency	Project	Project Type	Federal Cost	NON_FED MATCH	Total Project Cost	BCA	Final after Tiebreaker
Elko	NDF	Mountain City	Fire resistant building around water tower	$ 8,193.75	$ 2,731.25	$ 10,925.00	5%	1
Statewide	NDF	Mobile Weather Stations	Weather Stations for burn scar areas	$ 45,100.40	$ 15,033.47	$ 60,133.87	5%	2
Elko	Elko Co	Lamoille Canyon - Boy Scout Camp	Fire retardant Siding and roofing on cabins that survived	$ 115,521.75	$ 38,507.25	$ 154,029.00	5%	3
Elko	NDF	Spring Creek Association	Fuels Reduction/Dspace	$ 502,021.50	$ 167,340.50	$ 669,362.00	5.49	4
Washoe	North Lake Tahoe FPD	Fire Adapted Communities Assistance Project	Fuel reduction/Defensible Space/Ignition-resistant roofing	$ 536,626.00	$ 178,875.33	$ 715,501.33	12.08	5
Douglas	Tahoe Douglas FPD	Tahoe Township	Fuels reduction/Reseeding	$ 525,000.00	$ 175,000.00	$ 700,000.00	10.60	6
Lyon	NDF	Lyon County CWPP Update	Community Wildfire Protection Plan Update	$ 270,264.38	$ 90,088.13	$ 360,352.51	Not required	7
Elko	NDF	West Elko	Fuels Reduction/Defensible space	$ 237,242.25	$ 79,080.75	$ 316,323.00	Waiting	8
Douglas	NDF	South Douglas - Holbrook/Topaz Ranch Estates/Topaz Lake	Fuels reduction/Defensible space	$ 303,000.00	$ 101,000.00	$ 404,000.00	Waiting	9
Lyon	Central Lyon FPD	CLC Fuels reduction Program	Fuels reduction/Defensible space	$ 130,914.00	$ 43,638.00	$ 174,552.00	3.79	10
Lyon	SMCD***	SV Fuels Reduction	Fuels Reduction	$ 219,389.25	$ 73,129.75	$ 292,519.00	1.89	11
Washoe	NDF	Washoe CWPP Update	Community Wildfire Protection Plan Update	$ 519,604.69	$ 173,201.56	$ 692,806.25	Not required	12
Washoe	NDF	Belsera HOA	Fuels reduction/Defensible Space	$ 72,138.75	$ 24,046.25	$ 96,185.00	5.62	13
Elko	NDOW	Hunter	Reseeding	$ 91,458.00	$ 30,486.00	$ 121,944.00	Not Required	14
			Totals	$ 3,576,474.72	$ 1,192,158.24	$ 4,768,632.96		

As of January 16, 2019:

- ✓ **14 Projects submitted and ranked totaling $3,576,474.72**
- ✓ **Grant Funding Available - $3,400,062**
- ✓ **$176,412.72 Over Requested**

NEVADA RESILIENCE COMMISSION

Agenda Item #10 – City of Reno

Reno City Hall
Seismic Upgrade Project

Agenda Item #10 Cont. – City of Reno

Reno City Hall Seismic Upgrade—Background

- Miyamoto International, Earthquake and Structural Engineers, were hired to conduct an initial analysis of Reno's City Hall high rise building, due to reports of excessive motion during wind events and consequent concern of how the structure will respond during an earthquake event. In addition, the University of Nevada's Seismic Laboratory had expressed concerns about the building's seismic structural resilience.

Agenda Item #10 Cont. – City of Reno

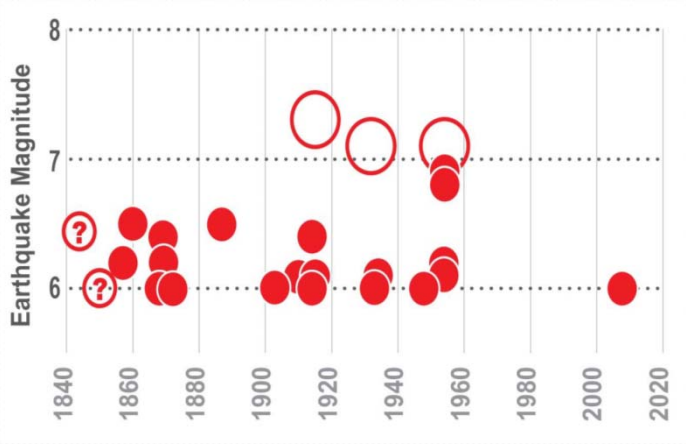
Reno City Hall Seismic Upgrade—Seismic History

- According to Dr. Graham Kent, Director at the Nevada Seismology Laboratory, "The average frequency of >6 magnitude earthquakes in Nevada has been about one every 10 years, while earthquakes >7 magnitude once every 27 years. In the 20th century there were seven magnitude 6.5 or larger earthquakes in Nevada—but none have occurred since 1954!"

Agenda Item #10 Cont. – City of Reno

Reno City Hall Seismic Upgrade—Seismic History

- With the exception of the Wells earthquake in 2008, Nevada has not had a significant earthquake since the City Hall building was built in 1962.



Source: The Great Nevada ShakeOut website

Agenda Item #10 Cont. – City of Reno

Reno City Hall Seismic—Miyamoto Preliminary Analysis

Analyzed three scenarios:

1. Existing building
2. Adding seismic dampers at and above the 8th floor
3. Adding seismic dampers on all floors

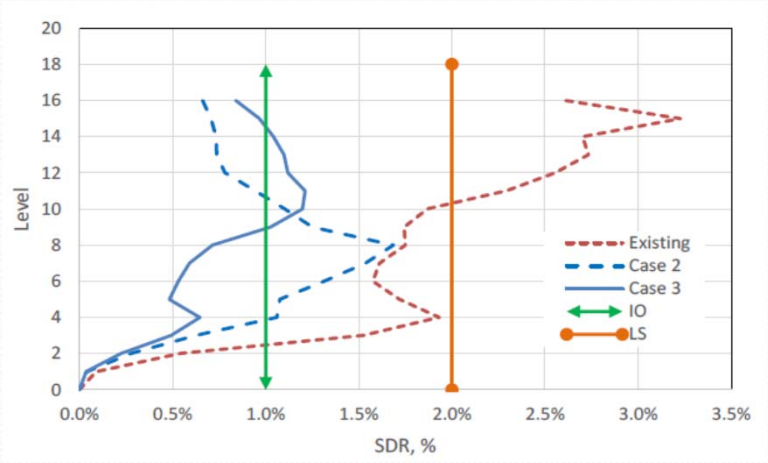
Story Drift Ratio (SDR)

- A measure of the relative motion between stories of the building

SDR of each scenario (case) is compared in the next slide

Agenda Item #10 Cont. – City of Reno

Reno City Hall Seismic—Miyamoto Preliminary Analysis



- **LS—Life Safety**
  - Get people out of the building, but not usable
- **IO—Immediate Occupancy**
  - Can be used again

Agenda Item #10 Cont. – City of Reno

Reno City Hall Seismic—Estimated Costs

Construction	
Seismic Dampers	$2,496,000
Mechanical System Alterations	$ 192,000
Column Splice Repairs	$ 600,000
Asbestos Mitigation	$ 300,000
Engineering & Design Costs	$ 450,000
Construction Management	$ 250,000
Staff/Tenant Relocation During Const.	$ 200,000
Contingency (Miyamoto suggested 20%)	$ 812,000
Total Cost	**$5,300,000**

Agenda Item #10 – State Public Works

State Public Works Division

FEMA Grant Application Project Presentation

Marlette Lake Dam Resilient Infrastructure Project

Hobart Reservoir Dam Advance Assistance

Reno Purchasing Warehouse Emergency Generator Project

January 24, 2019

Agenda Item #10 Cont. – State Public Works

How will the State Public Works Division complete these projects?

- The State Public Works Division (SPWD) is within the State of Nevada's Department of Administration and performs planning, maintenance and construction services for state owned facilities.
- SPWD has implemented large grant programs in the past, including FEMA PDM grants and has established procedures for implementation of grant funded projects.
  - Project managers will be assigned to oversee the projects to ensure that the mitigation activities are within the grant scope, schedule, and budget.
  - Engineering consultants will be hired to provide design, bidding and construction administration services.
  - Construction contractors will be procured through in accordance with State and FEMA PDM grant requirements.
  - The project managers will hold regular metering with key personnel to provide regular updates as required by the FEMA PDM grant program.

Agenda Item #10 Cont. – State Public Works

Past SPWD FEMA PDM Projects

- **Caliente Youth Center Bridge Flood Mitigation Project**
  - This project constructed a new access bridge to the Caliente Youth Center in Caliente, Nevada.
  - Winner of the 2017 Nevada APWA Project of the Year Award (Under $5 million category).
- **Seismic Repairs to Stewart Buildings 12 & 13**
  - This project provided seismic retrofits to the unreinforced masonry building at the Stewart Facility in Carson City Nevada.

Agenda Item #10 Cont. – State Public Works MLWS

Agenda Item #10 Cont. – State Public Works MLWS

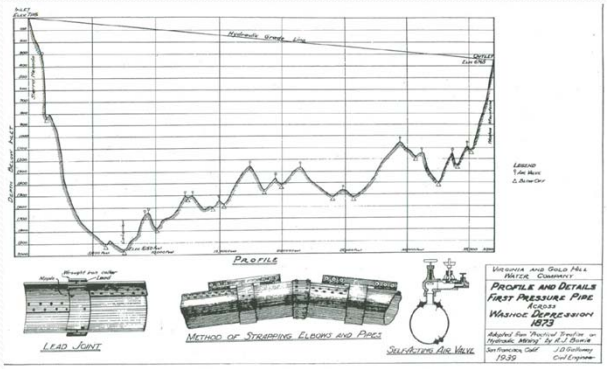
Overview of the Marlette Lake Water System

- **Year built – 1873 (Hermann Schussler)**
  - Owners – Virginia and Gold Hill Water Company 1873
  - Name changed to Virginia City Water Company, 1933
  - Curtis-Wright Corporation – August 8, 1957.
  - Marlette Lake Company Dec 2, 1957.
  - State ownership – June 23, 1963 for $1.65 million.
- **Purpose**
  - Water for domestic and mining use (Comstock District)
  - Only water supply to Virginia City, Gold Hill and Silver City
  - Provides fresh water to Carson City

Agenda Item #10 Cont. – State Public Works MLWS

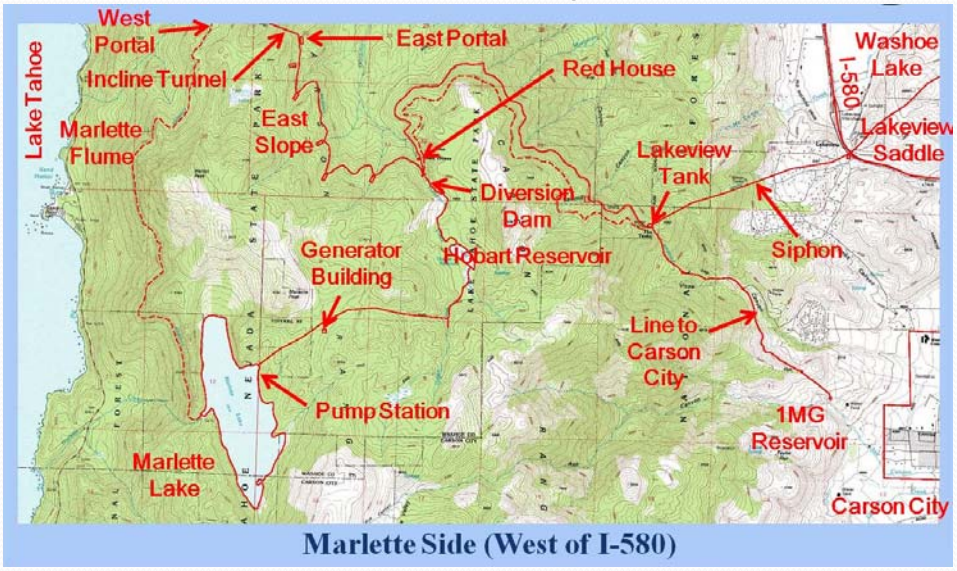
Overview of the Marlette Lake Water System

- **<u>An Engineering Feat</u>**
  - Historic Civil Engineering Landmark by ASCE (1975)
  - Listed on National Register of Historic Places (1992)



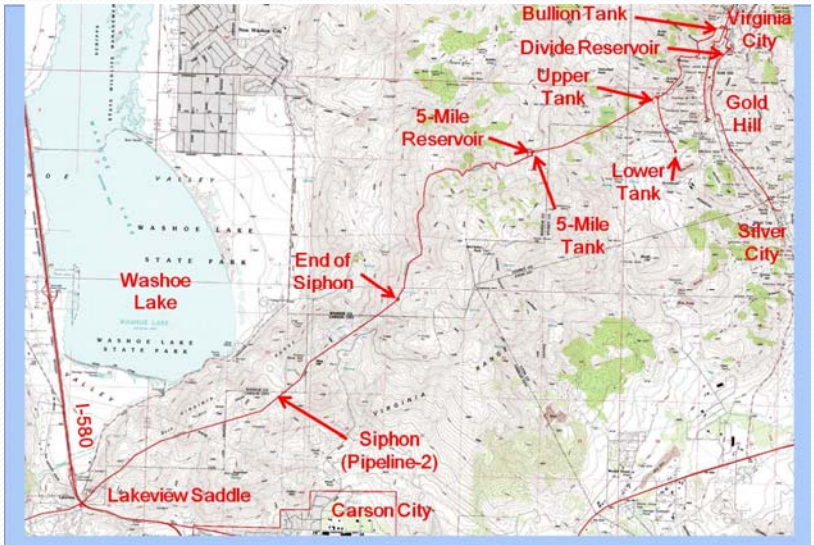
Agenda Item #10 Cont. – State Public Works MLWS

Overview of the Marlette Lake Water System



Agenda Item #10 Cont. – State Public Works MLWS

Overview of the Marlette Lake Water System



Storey County Side (East of I-580)

Agenda Item #10 Cont. – State Public Works MLDRIP

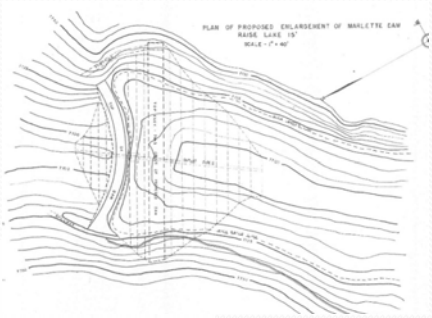
Agenda Item #10 Cont. – State Public Works MLDRIP

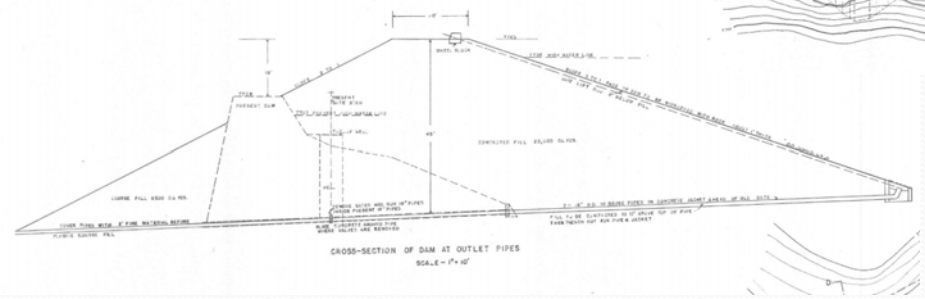
Marlette Lake Dam Resilient Infrastructure Project

Agenda Item #10 Cont. – State Public Works MLDRIP

Marlette Lake Dam Resilient Infrastructure Project

- The Marlette Lake Dam is an approximately 33’ high earthen structure that was originally constructed in the late 1870’s and most recently raised in 1959.
- It impounds 11,780-acre feet of water.





Agenda Item #10 Cont. – State Public Works MLDRIP

Marlette Lake Dam Resilient Infrastructure Project

Agenda Item #10 Cont. – State Public Works MLDRIP

Marlette Lake Dam Resilient Infrastructure Project

- Recent safety evaluations indicate a high probability of a dam breach due to an earthquake and subsequent flooding.
- Failure of this dam would not only interrupt water supplies to Carson City and Storey County, but would potentially damage life and property in the Lake Tahoe Basin.

Agenda Item #10 Cont. – State Public Works MLDRIP

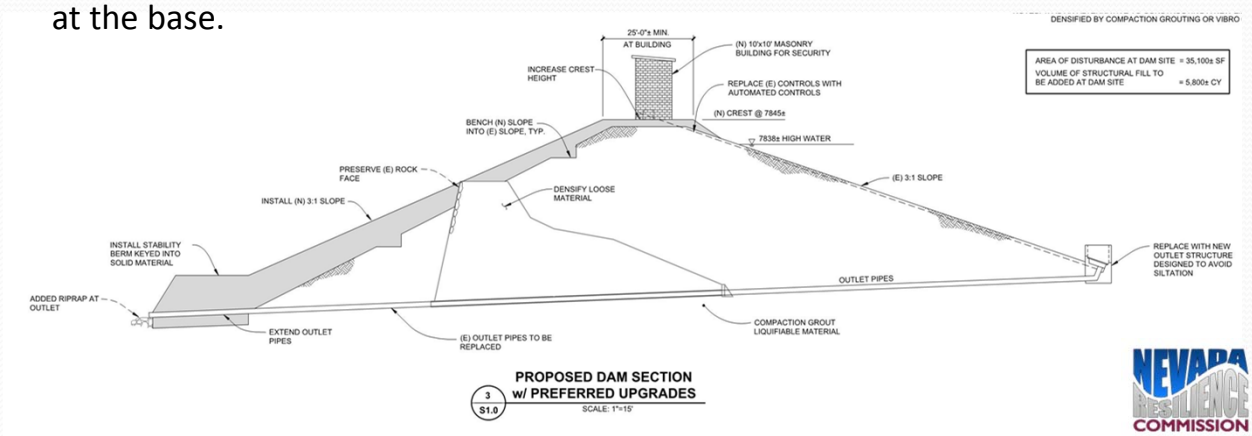
Marlette Lake Dam Resilient Infrastructure Project

- The project will perform a complete survey, geotechnical investigation and survey of the existing structure that will result final design recommendations and construction documents. Bidding and construction of the design recommendations are also included.

Agenda Item #10 Cont. – State Public Works MLDRIP

Marlette Lake Dam Resilient Infrastructure Project

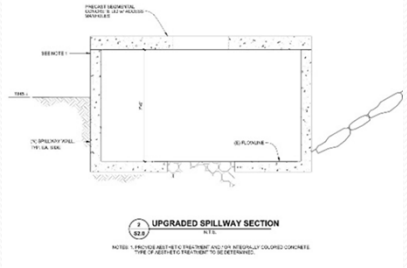
- The conceptual design proposes to stabilize the dam by enlarging the existing embankment, flattening the downstream slope to 3:1, adding a stability berm at the base.



Agenda Item #10 Cont. – State Public Works MLDRIP

Marlette Lake Dam Resilient Infrastructure Project

- The project also includes:
  - Spillway improvements
  - Replacements of the outlet pipes and control valves
  - Installation of automated controls and monitoring equipment
  - Increase of the crest height to reduce the risk of overtopping
  - Extensive environmental and historical permitting



Agenda Item #10 Cont. – State Public Works MLDRIP

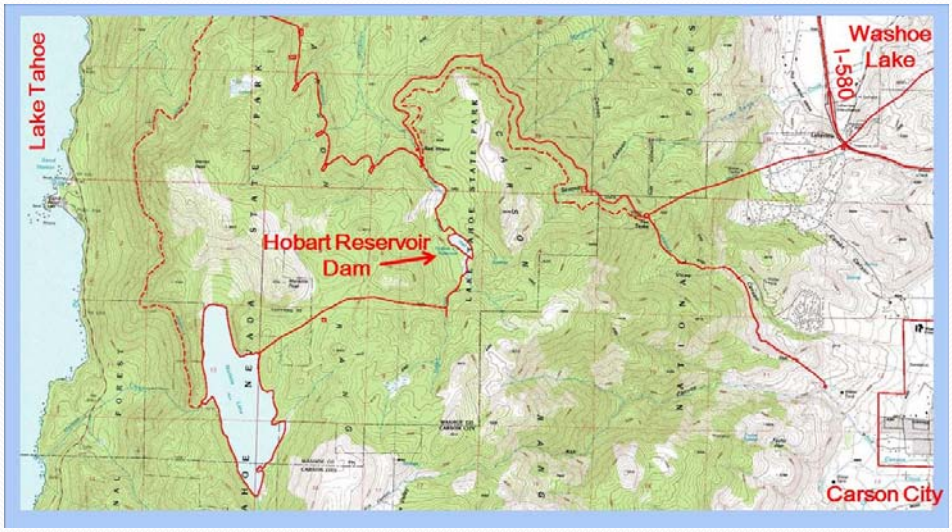
Marlette Lake Dam Resilient Infrastructure Project

- This project will reduce the risk to the public, critical infrastructure, and the environment in multiple jurisdictions:
  - Lake Tahoe (within California & Nevada)
  - The historic Thunderbird Lodge on the shore of Lake Tahoe
  - State Route 28 owned by the Nevada Department of Transportation
  - The Incline Village General Improvement District major effluent pipeline along State Route 28.
  - The water supply for Carson City, Storey County, and Lyon County rely on this resource.
- The risk reduction will be achieved by mitigation of dam break, earthquake and flood effects related to Marlette dam with a Benefit Cost Ratio of 2.37.

Agenda Item #10 Cont. – State Public Works Hobart

Agenda Item #10 Cont. – State Public Works HOBART

Hobart Reservoir Dam Advance Assistance



Agenda Item #10 Cont. – State Public Works HOBART

Hobart Reservoir Dam Advance Assistance

- The Hobart Reservoir Dam is an approximately 24' high earthen structure that was originally constructed in the late 1870's and most recently retrofitted after a breach in 1956.
- It impounds 35 million gallons of water.

Agenda Item #10 Cont. – State Public Works HOBART

Hobart Reservoir Dam Advance Assistance

- Recent safety evaluations indicated a high probability of a dam breach due to an earthquake or storm event and subsequent flooding. This dam also exhibits active seepage and erosion on the downstream side.
- The project will perform a complete survey, geotechnical investigation and survey of the existing structure that will result final design recommendations and construction documents.

Agenda Item #10 Cont. – State Public Works HOBART

Hobart Reservoir Dam Advance Assistance

Agenda Item #10 Cont. – State Public Works RPWEGP

Reno Purchasing Warehouse Emergency Generator Project

Agenda Item #01 Cont. – State Public Works RPWEGP

Reno Purchasing Warehouse Emergency Generator Project

Agenda Item #10 Cont. – State Public Works RPWEGP

Reno Purchasing Warehouse Emergency Generator Project

Budget: $1,033,524		Scope
Professional Services Total	$113,878	• This project will replace the existing 140 kW generator and automatic transfer switch with a 350 kW emergency generator, automatic transfer switch, main service entrance switchgear, concrete pad and wiring.
Building & Misc. Total	$919,646	
Grant Funding ($575,000) State Funded ($458,524)		

Agenda Item #10 Cont. – State Public Works RPWEGP

Reno Purchasing Warehouse Emergency Generator Project

- The existing generator is inadequate due to facility growth and may fail to provide adequate emergency power to a critical cold food storage facility.
- A proposed freezer addition will exceed the existing generator's capacity.
- The existing generator is approximately 20 years old and has reached the end of its useful life.

Agenda Item #10 Cont. – State Public Works

In Summary

Agenda Item #10 Cont. – State Public Works

State of Nevada Public Works Division Funding Match & Maintenance Commitments

- **Marlette Lake Dam Resilient Infrastructure Project**
  - The Project Budget is $13,780,132 and the Federal Grant Request is $10,000,000
  - The State of Nevada will exceed the 25% match requirement with $3,780,132 of funding.
  - The State of Nevada commits to budgeting $14,070 annually for maintenance.
- **Hobart Reservoir Dam Advanced Assistance**
  - The Project Budget is $264,816 and the Federal Grant Request is $198,439.34
  - The State of Nevada will meet the 25% match requirements with $66,666.66 of funding.
- **Reno Purchasing Warehouse Emergency Generator Project**
  - The Project Budgets is $1,033,524 and the Federal Grant Request is $575,000.
  - The State of Nevada will exceed the 25% match requirement with $458,524 of funding.
  - The State of Nevada commits to budgeting $3,330 annually for maintenance.

NEVADA RESILIENCE COMMISSION

Agenda Item #10 Cont. – State Public Works

Summary of Project Benefits and Risk Mitigation

- The Marlette Lake Dam Resilient Infrastructure Project will mitigate potential for loss of life and or extreme loss downstream in the event of a dam breach as the result of a seismic breach.
  - Seismically retrofitting the dam will protect lives, protect the drinking water and other critical infrastructure and protect the economy of the multiple jurisdictions.
  - The Benefit Cost Ratio for this $13,780,132 project is 2.37.
- The Hobart Reservoir Dam Advance Assistance will provide the first step in mitigating potential for loss of life and or extreme loss downstream in the event of a dam breach as the result of a seismic breach.
- The Reno Purchasing Warehouse Emergency Generator Project will mitigate
  - Replacement of the generator, automatic transfer switch, and main service entrance switchgear will mitigate generator failure, food spoilage, and revenue loss due to excessive electrical load requirements.

NEVADA RESILIENCE COMMISSION

Agenda Item #11

OVERVIEW OF THE NEVADA EARTHQUAKE SAFETY COUNCIL (NESC) HISTORICAL ROLES AND RESPONSIBILITIES

Presenters:
Dr. Craig dePolo, Nevada Earthquake Safety Council Chair
Dr. Graham Kent, University of Nevada Reno

The Nevada Earthquake Safety Council

Twenty Years of vision and promotion of an earthquake-resilient Nevada

Nevada Earthquake Safety Council

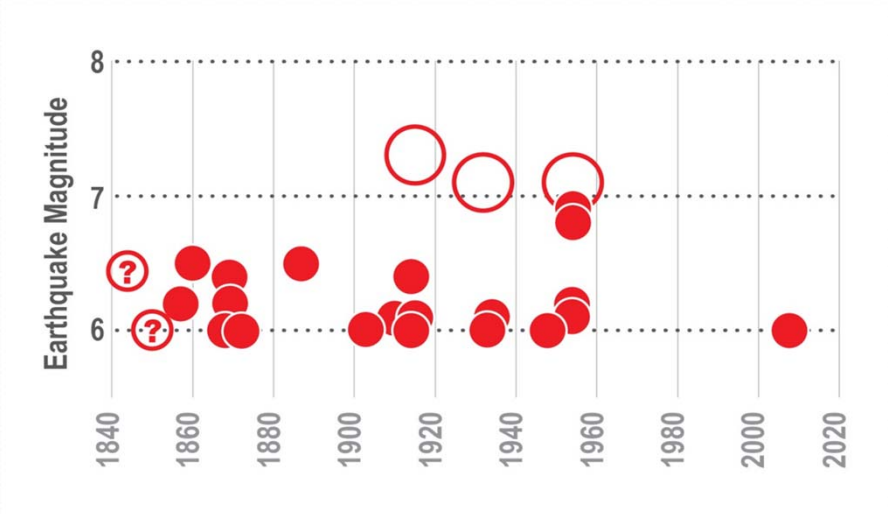
NEVADA RESILIENCE COMMISSION

Agenda Item #11 – dePolo, Kent

Nevada's Earthquake Threat

- **Usually happens without warning**
- **Worst damage within first few minutes**
- **Widespread comprehensive damage at many scales (large events are multi-community disasters)**
- **Compound disaster – injuries, damage, fires, HAZMAT, rescue**
- **Short time for large multi-faceted response**
- **17% M6+ were multiple events within 12 hours**

Agenda Item #11 – dePolo, Kent



Nevada's Major Earthquake History

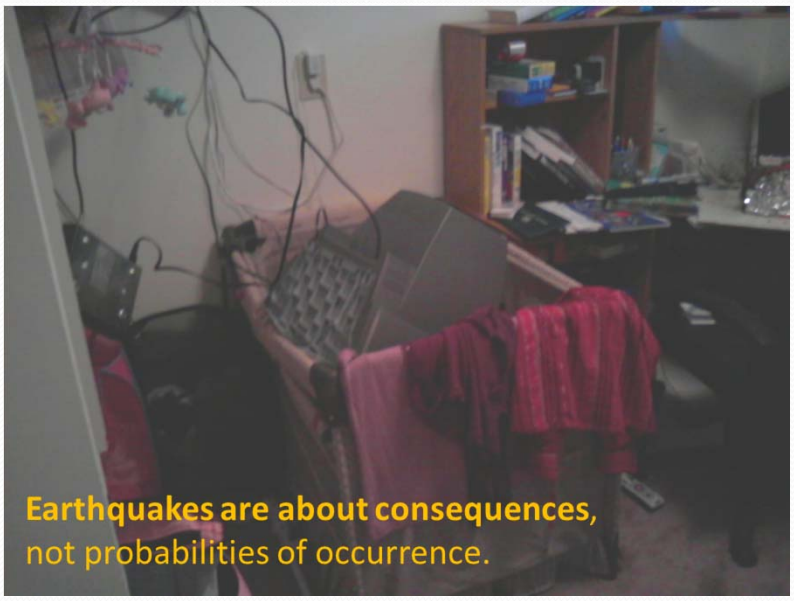
Agenda Item #11 – dePolo, Kent

Nevada's Earthquake History

- **23 eqs M≥6 since 1857 (ave. 1 in 6.9 yrs)**
- **3 eqs M≥7 since 1857**
- **>25 Nevada communities had eq damage**
- **At least 8 communities had repetitive eq damage**
- **15 out of 17 Nevada counties had eq damage**

NEVADA RESILIENCE COMMISSION

Agenda Item #11 – dePolo, Kent



NEVADA RESILIENCE COMMISSION

Agenda Item #11 – dePolo, Kent

Nevada's Earthquake Safety Council

- **August 1978 Governor Mike O'Callaghan established the 10-member Ad Hoc Panel on Seismic Hazard Mitigation**
- **1990s NBMG, NSL, NDEM formed a preliminary panel, first meeting May 27, 1992**
- **1993 NESC decided to alternate meetings N – S**
- **1993 first sponsored event – 2 day eq safety conference at UNR**

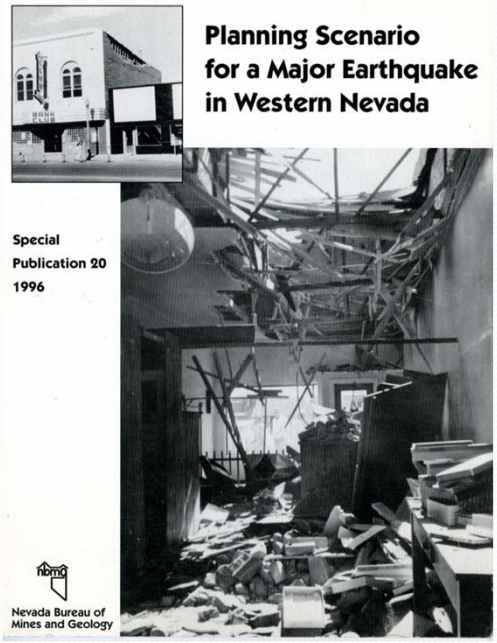
NEVADA RESILIENCE COMMISSION

Agenda Item #11 – dePolo, Kent

- **1993 first *Earthquake Awareness Week***
- **1994 Northridge eq**
- **1994 initiated the Reno-Carson City Earthquake Planning Scenario**
- **1994 Spanish translation "Eqs in NV & How to Survive Them"**
- **1995 Strategic Plan for Earthquake Safety in Nevada**
- **1996 potential Surface-rupture guidelines**

NEVADA RESILIENCE COMMISSION

Agenda Item #11 – dePolo, Kent



Agenda Item #11 – dePolo, Kent

- 1996 added subcommittees (education, geosciences, engineering, risk assessment)

Agenda Item #11 – dePolo, Kent

Proceedings of a Conference on Seismic Hazards in the Las Vegas Region

"Working Towards an Understanding"

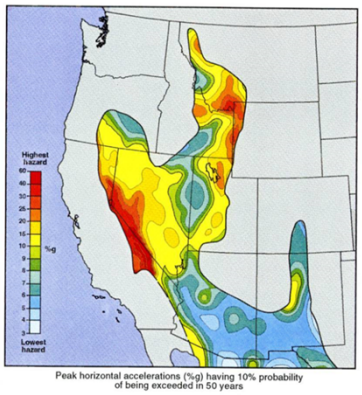
University of Nevada, Las Vegas
November 14th and 15th, 1996

Agenda Item #11 – dePolo, Kent

WESTERN STATES SEISMIC POLICY COUNCIL

Basin and Range Province Seismic Hazards Summit

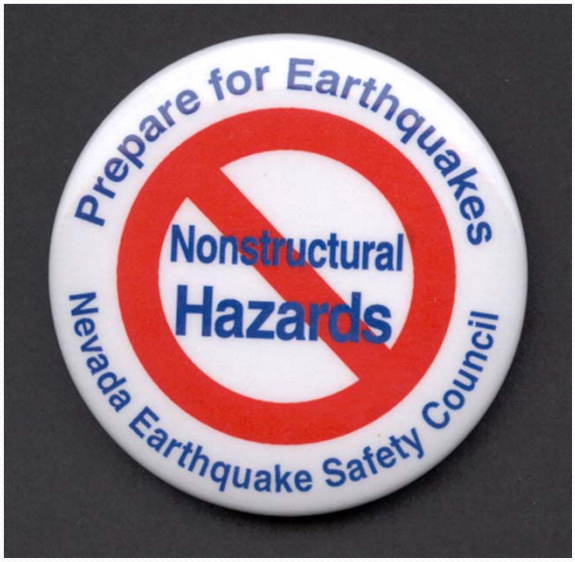
BRPSHS



Peak horizontal accelerations (%g) having 10% probability of being exceeded in 50 years

PROGRAM AND ABSTRACTS
Reno, Nevada
May 12-15, 1997

Agenda Item #11 – dePolo, Kent



Agenda Item #11 – dePolo, Kent

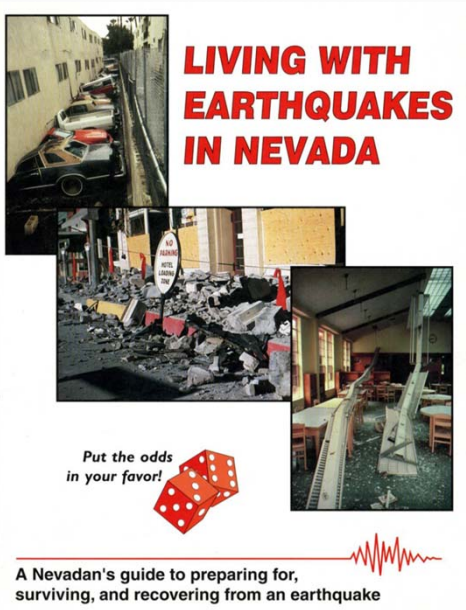
NESC Awards in Excellence began 2000

- Corey Farley, RGJ columnist
- NDOT Highway 80 Bridge Retrofit
- Keith Rogers, LVRJ reporter
- Carson City School District, nonstruct. mit.
- iGo Corporation, employee eq. awareness
- Las Vegas Academy, eq. prep.
- Nevada Public Works, CC Courthouse retro.

Agenda Item #11 – dePolo, Kent

- **2000 Nevada Earthquake Calendar**
  - 60 entries for poster contest across the state
  - >17,000 delivered to each teacher in the state
- **2001 Post-Earthquake Media Scripts**
- **2002 Nevada Earthquake Safety Act of 2003**
  (required seismic provisions of building codes be used)
- **2007 Joint meeting with the Utah Seismic Safety Commission**

Agenda Item #11 – dePolo, Kent



Agenda Item #11 – dePolo, Kent

Effective Nonstructural Mitigation Strategies for Earthquakes in Nevada

April 28, 2004

Boomtown Hotel and Casino
Verdi, Nevada

Agenda Item #11 – dePolo, Kent

BEAT THE QUAKE!

Steps to Earthquake Safety

DUCK, COVER, and HOLD during an earthquake.
Identify safety spots at home and work
Don't panic and run; stay inside

Identify and secure or relocate shaking hazards.
Bookcases, heavy objects on shelves, mirrors, computers, water heaters
Secure, relocate, replace, or remove dangerous and valuable objects

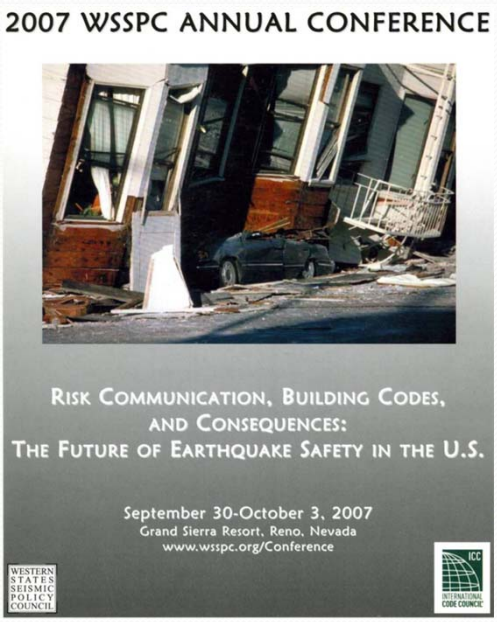
Prepare an emergency safety kit.
Flashlight, first aid kit, water,
non-perishable food, blanket

Make an earthquake plan.
Family meeting plans,
out-of-town telephone contact

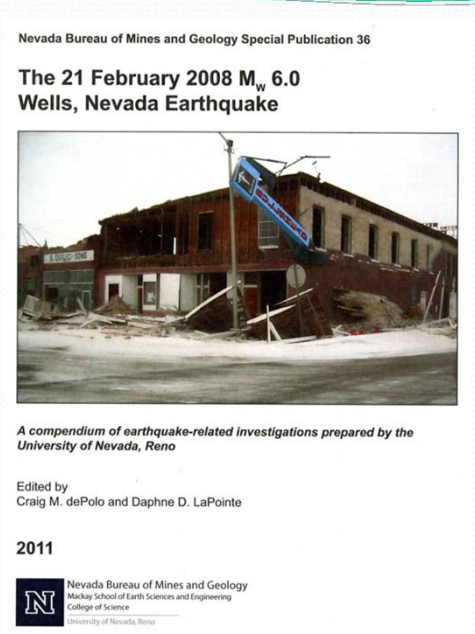
Work on long-term earthquake fixes.
Bolt house to foundation
Brace weak walls and cripple walls

Get earthquake information.
visit an earthquake safety web site, www.seismo.unr.edu
and "Living with Earthquakes in Nevada," www.nbmg.unr.edu

Agenda Item #11 – dePolo, Kent



Agenda Item #11 – dePolo, Kent



Agenda Item #11 – dePolo, Kent

Lessons Learned from the February 21, 2008 Wells, Nevada Earthquake

By

NEVADA EARTHQUAKE SAFETY COUNCIL

2011

With Contributions and Support from:

NEVADA BUREAU OF MINES AND GEOLOGY

NEVADA SEISMOLOGICAL LABORATORY

NEVADA DIVISION OF EMERGENCY MANAGEMENT

FEDERAL EMERGENCY MANAGEMENT AGENCY

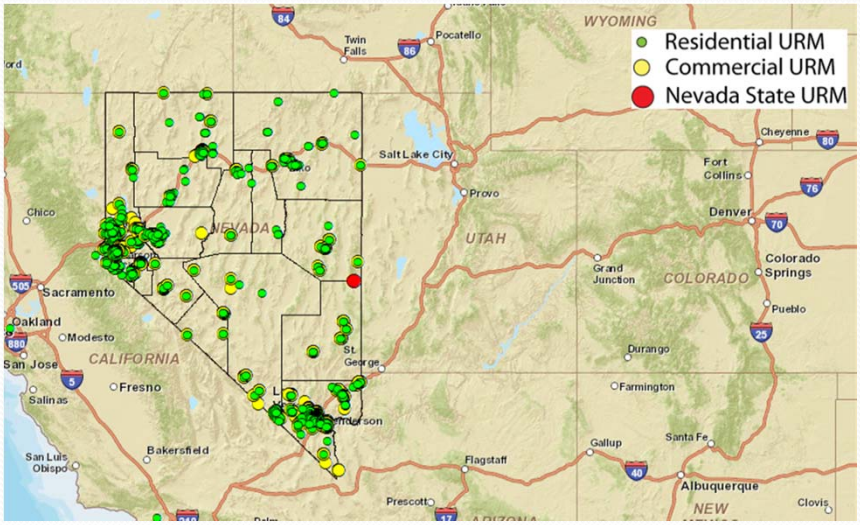
U.S. GEOLOGICAL SURVEY

CITY OF WELLS

NEVADA RESILIENCE COMMISSION

Agenda Item #11 – dePolo, Kent

2011-2012 Nevada URM Building Inventory



NEVADA RESILIENCE COMMISSION

Agenda Item #11 – dePolo, Kent

Final Report of the Committee on Unreinforced Masonry Buildings of the Nevada Earthquake Safety Council

[DRAFT REPORT]

Craig M. dePolo, Chairperson

Committee Members:

Michael Blakely
Timothy Ghan
Werner Hellmer
Gennady Stolyarov II
Kyle West

Agenda Item #12

OVERVIEW OF THE STATE EMERGENCY RESPONSE COMMISSION (SERC) ROLES AND RESPONSIBILITIES

Presenter:
Bart Chambers
State Fire Marshall

Nevada State Emergency Response Commission

Agenda Item #12 Cont. - Chambers

MISSION STATEMENT

"Protect the citizens of the state of Nevada against the negative effects of hazardous materials and terrorism."

- Planning
- Training
- Hazardous chemical inventory reporting
- Toxic chemical release reporting/notification

NEVADA RESILIENCE COMMISSION

Nevada State Emergency Response Commission

Agenda Item #12 Cont. - Chambers

- On October 17, 1986, President Reagan signed the Superfund Amendment and Reauthorization Act (SARA) into law. Title III of this ACT (which is referred to separately as EPCRA) establishes requirements for Federal, State and local governments, and industry regarding emergency planning and community right to know reporting on hazardous chemicals. This legislation builds upon the Environmental Protection Agency's (EPA's) Chemical Emergency Preparedness Program and numerous state and local programs aimed at helping communities to meet their responsibilities concerning potential chemical emergencies.
- The Act requires the governor of each state to designate a State Emergency Response Commission (SERC). On March 17, 1987, the Commission on Hazardous Materials was designated as the Nevada State Emergency Response Commission (SERC).

NEVADA RESILIENCE COMMISSION

Nevada State Emergency Response Commission

Agenda Item #12 Cont. - Chambers

Superfund Amendment and Reauthorization Act (SARA)

The Act has four major sections:

- Emergency planning
- Emergency notification
- Hazardous chemical inventory reporting
- Toxic chemical release reporting

The sections are interrelated in a way that unifies the emergency planning and community right to know provisions of SARA and Title III.

Nevada State Emergency Response Commission

Agenda Item #12 Cont. - Chambers

Superfund Amendment and Reauthorization Act (SARA)

The Act requires the establishment of Local Emergency Planning Committees (LEPC). LEPC membership includes;

- Elected County Municipal Officials, Police, Fire, Civil Defense, Public Health Professionals, Environmental, Hospital and Transportation Officials, Representatives of Facilities, Community Groups and the Media
- The Act also requires the LEPC's to develop hazardous materials emergency response plans. In developing a plan, the local committees evaluate available resources for preparing for and responding to a potential accident involving hazardous materials at the various sites within their jurisdiction.
- SERC is dedicated to assuring that our first responders have access to the most current training and equipment, also that our communities are kept safe. This is done by awarding LEPC's grant awards, LEPC's then award funding to qualifying recipients. SERC is currently overseeing three grants, but hopefully will be able to attain other grant opportunities in order to offer more opportunities to our sub-recipients.

Nevada State Emergency Response Commission

Agenda Item #12 Cont. - Chambers

Grants:

- **Hazardous Materials Emergency Preparedness (HMEP)**
  - Grant program sponsored by US-DOT is intended to provide financial and technical assistance as well as national direction and guidance to enhance State, Territorial, Tribal, and local hazardous materials emergency planning and training.

Nevada State Emergency Response Commission

Agenda Item #12 Cont. - Chambers

Grants (cont.)

- **SERC OPTE**
  - State Emergency Response Commission, Operational, Planning, Training, Equipment. Funded by the TRI, monies from facilities paying fees for the reportable quantities they have within their facilities.
- **United We Stand (UWS)**
  - Fees Collected from the sales of the “United We Stand" license plates provide grant funds to support preparedness to combat terrorism for the Local Emergency Planning Committees.

Nevada State Emergency Response Commission

Agenda Item #12 Cont. - Chambers

Questions!

Agenda Item #13

PRESENTATION ON THE DRUG THREAT ASSESSMENT INVOLVING STATEWIDE OPIOID ISSUES

Presenters:

Dr. Stephanie Woodard

Lieutenant Andy Rasor

Agenda Item #13 Cont. – Woodard/Rasor

Nevada's Overdose Deaths

Opioid-Related Overdose Deaths by Drug Category, State of Nevada Residents, 2010-2018*

Year	Heroin	Natural and Semi-Synthetic	Methadone	Synthetic Opioids	Unspecified Narcotic
2010	19	298	98	39	45
2011	40	300	97	45	46
2012	42	301	69	25	40
2013	48	241	70	25	39
2014	61	216	63	31	37
2015	79	254	57	31	37
2016	82	228	52	49	28
2017	92	234	45	64	18
2018*	25	50	9	15	0

A person can be included in more than one drug group, and therefore the counts above are not mutually exclusive.

**Preliminary data for January 1, 2018 - March 31, 2018 only.*

NEVADA RESILIENCE COMMISSION

Agenda Item #13 Cont. – Woodard/Rasor

Heroin, Fentanyl and Methamphetamine

- Nevada HIDTA has classified heroin, fentanyl, and methamphetamines as three of the top threats in 2018 (Nevada HIDTA, 2018)
- Fentanyl is 50-100 times more potent than heroin
- Can be mixed into drug supply (pills, heroin, methamphetamine)
- 2018: Washoe County: 21 fentanyl-related deaths
  89 Methamphetamine-related deaths
  Clark County: 42 fentanyl-related deaths
  222 methamphetamine-related deaths

NEVADA RESILIENCE COMMISSION

Agenda Item #13 Cont. – Woodard/Rasor

Data and Information Exchange

Law Enforcement, First Responders, Health Care Providers, and Public Health Data and Information

- Timeliness: ODMAP/AB474 Overdose Reporting
- Quality: Syndromic Surveillance, Outbreak Investigation
- Actionable: Community Preparedness Plans
- Parameters and permissions for exchange, disclosure

NEVADA RESILIENCE COMMISSION

Agenda Item #13 Cont. – Woodard/Rasor

Community Preparedness Plans

EMERGENCY MANAGEMENT, & PUBLIC HEALTH PREPAREDNESS; NALOXONE AVAILABILITY

RELEASE DATE: JULY 23, 2018 ; AVAILABLE THROUGH FEBRUARY 2019

EMS, COUNTIES, COALITIONS

FUNDING FOR THE OPIOID OVERDOSE COMMUNITY PREPAREDNESS PLANS FOR EACH COUNTY IN NEVADA

FUNDING AVAILABLE RANGES FROM $20K-$7K, WASHOE $15K

DATA AND INFORMATION SHARING-PUBLIC HEALTH/LAW ENFORCEMENT

NEVADA RESILIENCE COMMISSION

Agenda Item #13 Cont. – Woodard/Rasor

Community Preparedness Plans

- Each community will need to identify and implement a real time overdose mapping system. This system will be utilized to track information that guides activities pre-overdose spike~~s~~, during an overdose spike~~s~~, and post overdose spike~~s~~.
- Identify the stakeholders (e.g. EMS, Law Enforcement, Health Department, Coroners, treatment centers, etc.) that will be integral to your plan. Each stakeholder will need clear definitions of their role and responsibility.
- Select leaders that will assist with coordinating the action plan with the stakeholders. This group of leaders will assign responsibilities among the stakeholders based upon the community's resources and needs. This may include the coalitions, Health Department, and/or local EMS
- Create a clear definition as to what a spike of opioid overdoses will be in your community. A spike is the number of suspected overdoses in a certain timeframe that will trigger the response plan. To best develop this definition, historical data in your community will be needed to understand what constitutes a spike.

NEVADA RESILIENCE COMMISSION

Agenda Item #13 Cont. – Woodard/Rasor

Community Preparedness Plans

- Establish and determine pre-opioid spike, during opioid crisis spike and post-opioid spike activities.
- Communicate with the community to best identify local contributors to overdose risk. Factors may include local drug trends and use, availability and access to treatment, evaluation of current outreach strategies or materials.
- Establish line of communication with the press in the event of a spike in OD deaths, especially if due to fentanyl and/or carfentanyl in an area.
- Identify local resources and what assistance may be needed.
- Implement a system of evaluation to assess the effectiveness of the current plan and adjust as needed to remain operative.

NEVADA RESILIENCE COMMISSION

Agenda Item #13 Cont. – Woodard/Rasor

Community Preparedness Plans

A system of information delivery of community resources will need to be developed. Communities will need access to information regarding services beyond treatment including:

- Establishment of naloxone distribution centers that are accessible to community members.
- Provide drug disposal and unused prescription medication drop off sites.
- Support meetings available for those who are at risk (i.e. NA, AA, SMART Recovery, etc.) as well those who support those individuals (i.e. Al-Anon, Nar-Anon, etc).
- Provide continued education on Good Samaritan Law protections and provisions.
- Deliver education on harm reduction strategies that can help prevent overdoses.
- Provide school and community education programs to raise awareness and educate about the risk of opioid misuse, opioid overdose, and opioid overdose rescue training

NEVADA RESILIENCE COMMISSION

Agenda Item #13 Cont. – Woodard/Rasor

OD MAP

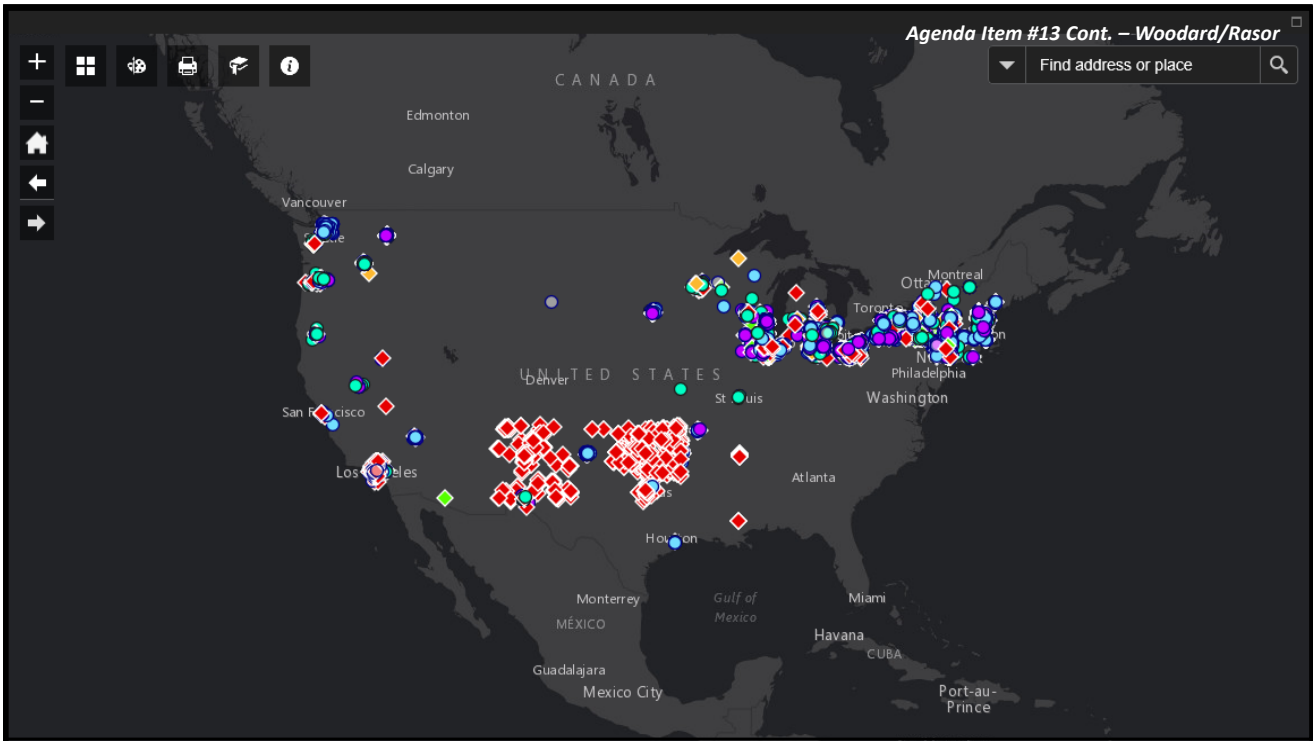
- OD Map: Overdose Detection Mapping Application Program
- Developed by the Washington D.C.-Baltimore High Intensity Drug Trafficking Area (HIDTA) to track drug overdoses and spikes
- Provides surveillance of known or suspected drug overdose events as close as possible to real-time.
- Allows participating agencies to collect and store suspected drug overdose events in a geocoded manner (hence the name OD Map).

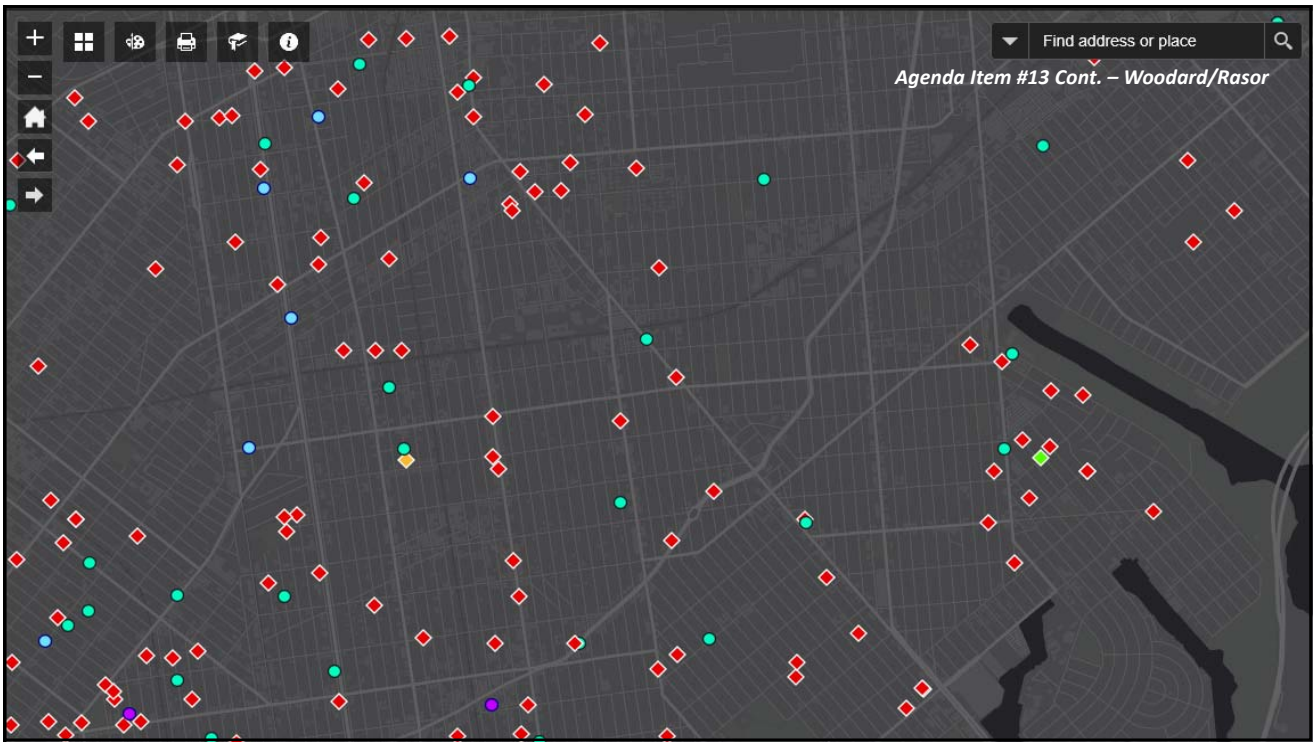
NEVADA RESILIENCE COMMISSION

Agenda Item #13 Cont. – Woodard/Rasor

OD MAP

- Allows public health, law enforcement, and other select government agencies the ability to electronically identify and respond to sudden increases or spikes for drug overdose events.
- Already implemented in other parts of the country, especially the East Coast where Heroin, opioids, and Fentanyl overdoses are more prevalent

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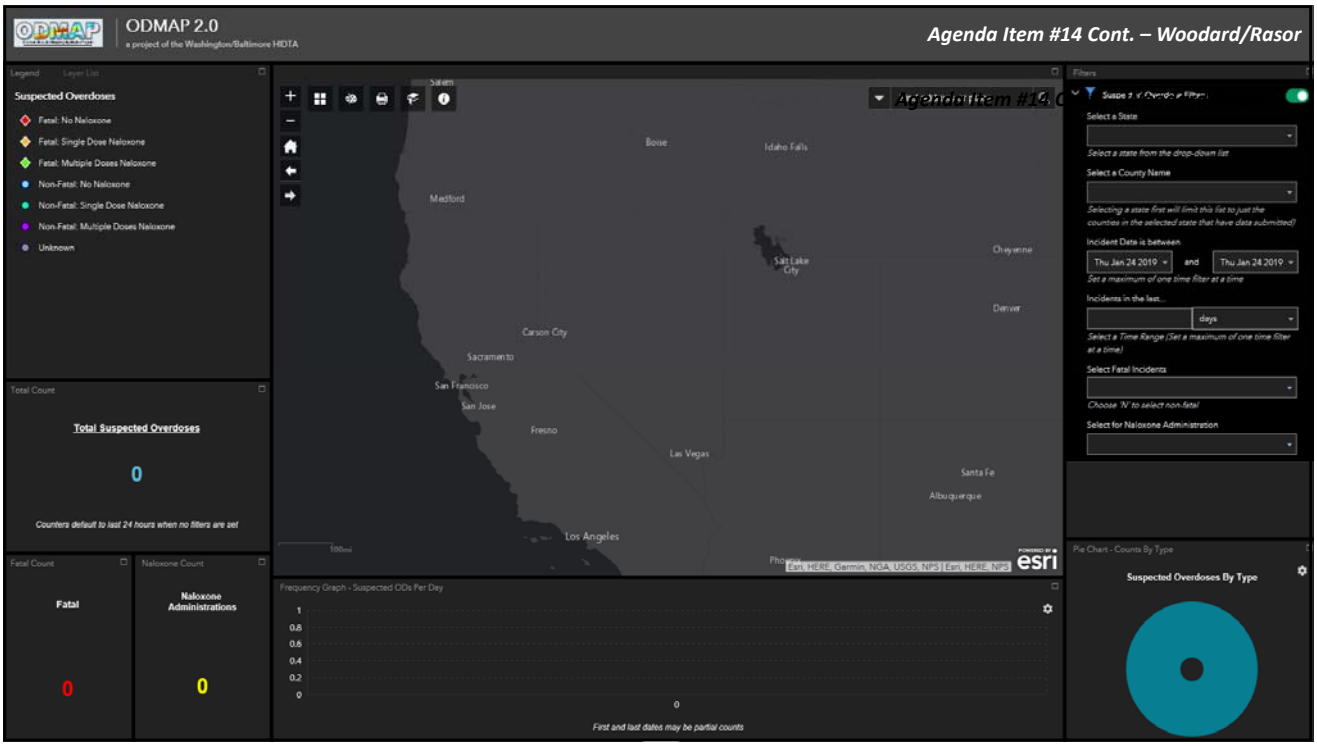
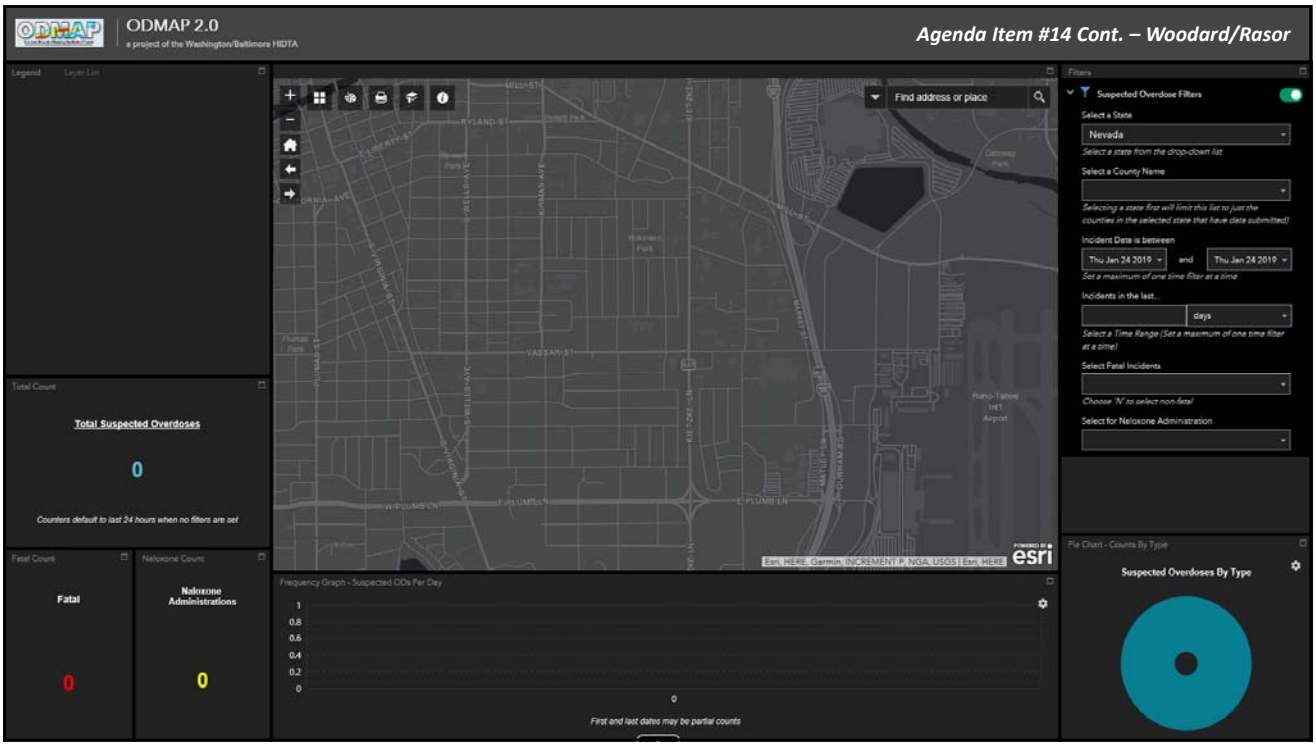
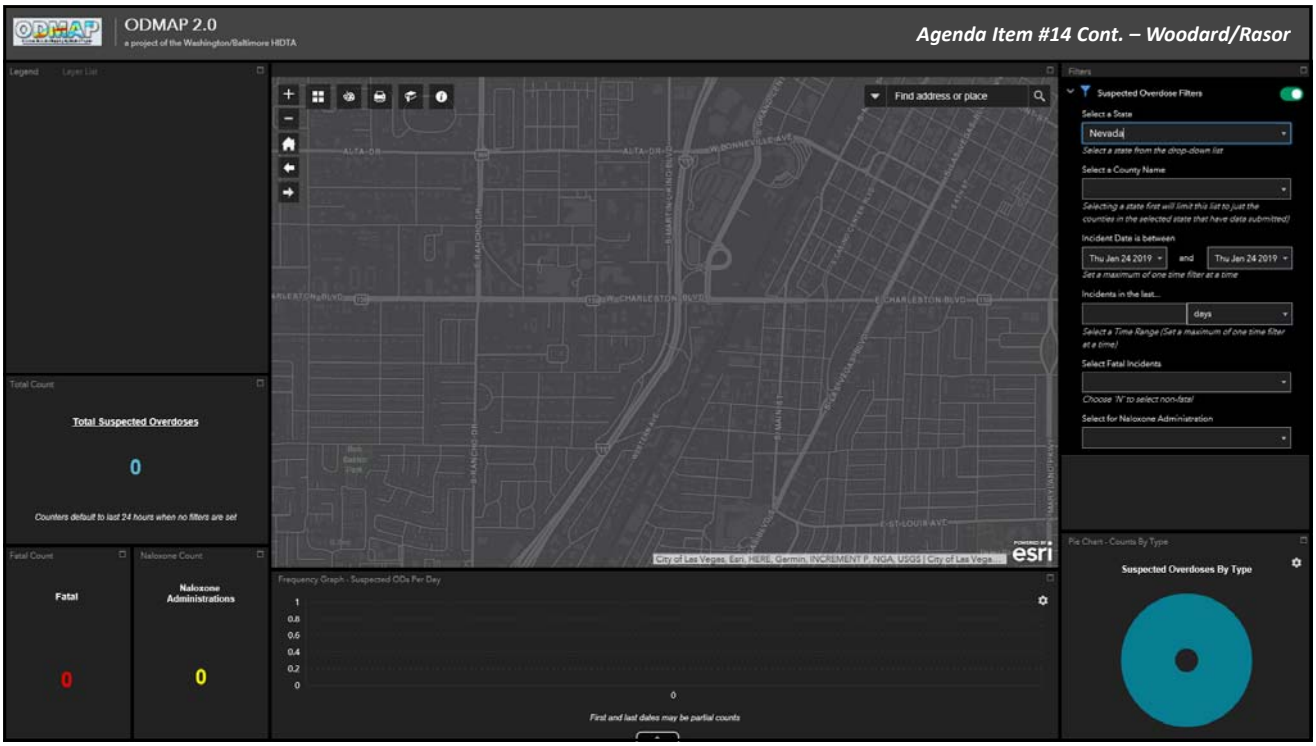
Agenda Item #13 Cont. – Woodard/Rasor


ODMAP 2.0
a project of the Washington/Baltimore HIDTA
Agenda Item #14 Cont. – Woodard/Rasor
Suspected Overdoses
Fatal: No Naloxone
Fatal: Single Dose Naloxone
Fatal: Multiple Doses Naloxone
Non-Fatal: No Naloxone
Non-Fatal: Single Dose Naloxone
Non-Fatal: Multiple Doses Naloxone
Unknown
Total Count
Total Suspected Overdoses
0
Counters default to last 24 hours when no filters are set
Fatal Count
Fatal
0
Naloxone Count
Naloxone Administrations
0
Boise
Idaho Falls
Medford
Salt Lake City
Cheyenne
Denver
Carson City
Sacramento
San Francisco
San Jose
Fresno
Las Vegas
Santa Fe
Albuquerque
Los Angeles
Frequency Graph - Suspected ODs Per Day
First and last dates may be partial counts
Filters
Select a State
Select a County Name
Incident Date is between
Thu Jan 24 2019
and
Thu Jan 24 2019
Incidents in the last...
days
Select Fatal Incidents
Select for Naloxone Administration
Pie Chart - Counts By Type
Suspected Overdoses By Type
esri


ODMAP 2.0
a project of the Washington/Baltimore HIDTA
Agenda Item #14 Cont. – Woodard/Rasor
Find address or place
Total Suspected Overdoses
0
Counters default to last 24 hours when no filters are set
Fatal
0
Naloxone Administrations
0
Suspected Overdose Filters
Select a State
Nevada
Select a County Name
Incident Date is between
Thu Jan 24 2019
and
Thu Jan 24 2019
Incidents in the last...
days
Select Fatal Incidents
Select for Naloxone Administration
Suspected Overdoses By Type
First and last dates may be partial counts


ODMAP 2.0
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Agenda Item #14 Cont. – Woodard/Rasor
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Select a State
Nevada
Select a County Name
Incident Date is between
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Incidents in the last...
days
Select Fatal Incidents
Select for Naloxone Administration
Suspected Overdoses By Type
First and last dates may be partial counts

Agenda Item #13 Cont. – Woodard/Rasor

OD MAP

How it Works

- First response agencies (fire, EMS, police) will designate which individuals they want to serve as Level I and Level II users for data collection and entry into OD Map.
- When responding to an event of an individual having a suspected drug overdose, these OD Map users will collect the necessary information for submission into OD Map.

NEVADA RESILIENCE COMMISSION

Agenda Item #13 Cont. – Woodard/Rasor

OD MAP

How it Works

- A designated Level I user from an agency will enter the following information about a suspected drug overdose utilizing his/her mobile device:
  - Incident type: fatal/ non-fatal
  - Naloxone administered: yes or no
  - Number of Naloxone doses given to patient
  - Suspected drug involved: Meth, Heroin, Fentanyl, etc.
  - Agency event number
  - Age and gender of patient

NEVADA RESILIENCE COMMISSION

Agenda Item #13 Cont. – Woodard/Rasor

OD MAP

How it Works

- Level I user can select "use my current location" feature on mobile device or can manually enter in location.
- Level I user clicks "submit" if data is correct, and user is done.

Agenda Item #13 Cont. – Woodard/Rasor

OD MAP

How it Works

- Level II users have more access rights, such as viewing the actual overdose map, seeing the types of events posted on the map, and can enter previously undocumented events into OD Map to help increase the database.
- Several agencies in Nevada are in the process now of entering previously undocumented overdose events to help increase Nevada's data in OD Map.

Agenda Item #13 Cont. – Woodard/Rasor

OD MAP

How it Works

- Level II users can also enter the following information:
  - Incident Date and Time
  - County Name
  - Location of event
  - State abbreviation
  - User Agency
  - User name and contact information
  - Any applicable event or case numbers

NEVADA RESILIENCE COMMISSION

Agenda Item #13 Cont. – Woodard/Rasor

OD MAP

How it Works

- OD Map ***does not contain*** any personally identifying information (PII) about the patient, nor can it contain any PII based on the parameters of data required for submission. The data entry contains:
  - *No* patient name
  - *No* patient date of birth
  - *No* patient race
  - *No* other identifying information about the patient, such as Social Security or driver license numbers, or contact info

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Agenda Item #13 Cont. – Woodard/Rasor

OD MAP

How it Works

- What it does:
  - Allows first responders and public health agencies to see if there are concerns or spikes related to drug overdoses in their areas.
  - Allows participating agencies, first responders, and decision makers to develop effective strategies to address overdose incidents occurring in their jurisdictions.
  - Allows participating agencies to enhance regional strategies designed to prevent the spread of substance abuse disorders resulting in overdose incidents.

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Agenda Item #1 Cont. – Woodard/Rasor

OD MAP

How it Works

- What OD Map ***is not***:
  - It is not an intelligence sharing database.
  - It is not intended to be an official repository of original records.
  - It is not intended to be used in official statistical reports.
  - It does not confirm the type of drug involved with the suspected drug overdose.
    - Note: laboratory/ toxicology reports can take up to 8 weeks or longer for drug confirmation

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Agenda Item #13 Cont. – Woodard/Rasor

OD MAP

- OD Map is solely a mapping tool that displays known or suspected overdose event location data.
- OD Map is essentially a pointer system that advises agencies about a problem in their area.

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Agenda Item #13 Cont. – Woodard/Rasor

Questions?

For more information, please contact:

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Agenda Item #14

OVERVIEW OF NEVADA PREPAREDNESS EFFORTS

Presenters:

Jim Walker, DEM

Administrative Protocols

[**Agenda Items #15 and #16**]

- Agenda Item #16 - Public Comment
- Agenda Item #17 - Adjourn

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