



Quaternary Fault Movement in Nevada, Craig dePolo, 2008

<http://www.nbmq.unr.edu/dox/m167.pdf>

Number of Years Before Present (YBP) Since Latest Fault Rupture

Red: <150; Orange: <15,000; Yellow: <30,000; Green: <750,000; Purple: <1,800,000

NEVADA EARTHQUAKE SAFETY COUNCIL STRATEGIC PLAN 2013

STRATEGIC PLAN FOR EARTHQUAKE SAFETY IN NEVADA
Nevada Earthquake Safety Council
2013

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PREFACE

As charged by the Governor of the State of Nevada, through the Nevada Division of Emergency Management, the Nevada Earthquake Safety Council sets forth this document to provide strategic direction and guidance in the efforts to improve earthquake resilience in Nevada.

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VISION

Our vision is an earthquake-resilient Nevada for our families, communities, and visitors.

MISSION

The mission of the Nevada Earthquake Safety Council is to provide decision makers and the general public with information and actions to reduce earthquake losses and speed recovery. The Council promotes earthquake awareness and preparedness through education, research, and policy recommendations.

PHILOSOPHY

Government has a fundamental responsibility to protect the health, safety, and welfare of its citizens. Toward that end, the Council:

- Improves understanding of earthquake hazards within the State of Nevada;
- Assists local, tribal and state agencies in preparing for disaster response and post-earthquake recovery;
- Educates the public about earthquake hazards and the measures to save lives, reduce loss of property, and to speed recovery;
- Promotes geotechnical earthquake-hazard evaluations.
- Promotes improving earthquake resistance in new and existing structures.

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INTRODUCTION

To accomplish the mission of increasing the state's resiliency to earthquakes, the Nevada Earthquake Safety Council (NESC) utilizes this strategic plan for earthquake safety to: minimize injuries, loss of life and property damage, and reduce social disruption in the aftermath of strong earthquakes, thereby enhancing the resiliency of communities in Nevada. This document has been revised through a review and planning process undertaken by NESC council members. It contains a list of goals, strategies and objectives to reduce losses due to earthquakes within the State of Nevada.

The critical issues identified in this document are:

- In the State of Nevada, the occurrence of life-threatening and damaging earthquakes poses a real and serious danger;
- The businesses, citizens, visitors and communities of the State of Nevada, as well as various emergency management and public safety agencies, can collectively take significant actions now that substantially reduce future injuries, loss of life, property damage and long-term economic impact from a severe earthquake; and
- The implementation of these actions is a continuing process.

A cost for these actions exists, and therefore, the strategy has been designed to be sensitive to regulatory and financial burdens. However, many actions can be taken now without great expense that will make Nevada a safer place to live, work, and engage in recreation.

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THE EARTHQUAKE THREAT IN NEVADA

Nevada experienced damaging earthquakes in the recent past. Geologic evidence indicates that because of our increasing population and development, we may expect earthquakes with even greater damage potential to occur in the future. Recent seismic events demonstrate the susceptibility of the entire State to earthquakes.

It is imperative that citizens of Nevada, and visitors alike, prepare for earthquakes. It is almost certain that significant loss of life, injuries and property damage will occur during a strong earthquake. This conclusion is based on the following facts:

- ❑ Nevada is the third most seismically active state in the U.S., following only California and Alaska;
- ❑ A significant portion of our population, including a large portion of the State government infrastructure is located within an area of greatest hazard; and
- ❑ Many of the older buildings as well as utility facilities in the State have not been designed to resist earthquake damage.

A number of interrelated geologic hazards are produced during and after severe earthquakes. These include:

- ❑ Ground shaking from the earthquake itself and its aftershocks;
- ❑ Cracks and surface fractures associated with fault rupture;
- ❑ Regional and/or localized ground subsidence or uplift;
- ❑ Liquefaction and related ground failure;
- ❑ Landslides, slope failures and rock fall;
- ❑ Flooding from various types of failures; and
- ❑ Lake tsunami/seiche.

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It cannot be overemphasized, on a personal scale, the resulting impacts from these events will be severe to many of those living or working in the affected area.

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GOALS FOR THE COUNCIL

The goals to achieve earthquake resiliency in Nevada are:

1. Increase awareness about Nevada's earthquake hazard.
2. Support the efforts of public safety agencies to better mitigate, prepare for, respond to and recover from earthquakes.
3. Promote the research, development, exchange, and application of knowledge relating to earthquakes in Nevada.
4. Develop policy and recommendations that promote earthquake safety.

The Nevada Earthquake Safety Council organization is outlined in its bylaws. The bylaws are found in appendix A.

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PLAN DESIGN AND TERMINOLOGY

The Strategic Plan is designed to be a flexible, evolving document that reflects the Nevada Earthquake Safety Council's Goals, Objectives and Strategies that are carried out by the Committees and Council members at large.

Goals: Goals are broad, qualitative statements of purpose derived from the mission and philosophy of the NESC. These Goals form the basis for establishment of Objectives and Strategies.

Objectives: Objectives are derived from Goals and provide the major target areas necessary to achieve the Goals of the Council. Each Objective has one or more Strategies, which describe the actions or action plans associated with it.

Strategies: Strategies are the detailed activities or plans, which are utilized to accomplish the Objectives, provide additional detail about each Objective, and are a guide for Committees to accomplish the Objectives.

The Strategic Plan will be implemented by the activities of the Committees appointed by the Council. Within this framework, Committees are responsible for facilitating the accomplishment of the Goal by developing Objectives and Strategies. These Objectives and Strategies will be reviewed, revised as necessary, and presented to the Council annually. Progress through actions and action plans of the Strategies, toward the achievement of the Goals of the Council and Objectives will be reported to the council at each quarterly meeting of the Nevada Earthquake Safety Council.

It is the intent of the Nevada Earthquake Safety Council to continue to evaluate and modify, as appropriate, the Objectives, Strategies, and perhaps even the Goals themselves. Ongoing involvement by members ensures this Strategic Plan is a living document that will be used consistently and updated as new

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information becomes available. The Strategic Plan will be evaluated on a continuing basis by the NESC and updated annually or as otherwise necessary.

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GOAL SUMMARY

GOAL 1: Outreach and Awareness

Increase awareness about Nevada's earthquake hazard.

OBJECTIVES:

- ❑ Involve public safety and emergency management representatives in statewide earthquake education and seismic safety programs statewide
- ❑ Promote earthquake preparedness in our schools, homes, resorts, and workplaces
- ❑ Promote earthquake education programs for schools, the citizens of Nevada and visitors
- ❑ Promote preparation, distribution, and implementation of effective Public Information

STRATEGIES:

- ❑ Develop, in conjunction with the Nevada Department of Education, lesson plans and activities for teachers that tie into the existing science curriculum and align with the science standards for the state
- ❑ Increase media involvement through partners such as the Nevada Broadcasters Association
- ❑ Provide Applied Technology Council (ATC) and related training.
- ❑ Develop formalization of the training process
- ❑ Expand earthquake awareness at educational sites such as regional science fairs, and speakers bureaus
- ❑ Develop information programs targeting public safety personnel, emergency managers, local government executives, and business and industry leaders
- ❑ Promote the annual Great Nevada Shakeout and associated drills

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GOAL SUMMARY

GOAL 2: Public Safety

Support the efforts of public safety agencies to better mitigate, prepare for, respond to and recover from earthquakes.

OBJECTIVES:

- ❑ Establish Community Emergency Response Teams (CERT's) statewide
- ❑ Develop effective earthquake exercise and training programs for hospitals
- ❑ Promote the integrated emergency management system statewide

STRATEGIES:

- ❑ Promote training of volunteer community emergency response teams about earthquake risks and possible mitigation activities
- ❑ Promote training of hospital staff about earthquake risks and possible mitigation activities
- ❑ Improve the integration of the emergency management system at all levels of the community, thereby bringing forth the "whole community" approach.

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GOAL SUMMARY

GOAL 3: Information and Research

Promote the development, research, and exchange of knowledge relating to earthquakes in Nevada.

OBJECTIVES:

- ❑ Promote technical information exchange between professionals, managers and the citizens of Nevada
- ❑ Promote post-earthquake technical clearinghouse through planning and established practices
- ❑ Identify all significant active faults and seismic sources, near major urban areas
- ❑ Promote earthquake early warning technology and applications
- ❑ Establish a comprehensive statewide seismic monitoring system

STRATEGIES:

- ❑ Develop publications, websites, and workshops
- ❑ Promote planning and special considerations based on the Fault Map of Nevada
- ❑ Develop a lifelines, utilities, and transportation workgroup
- ❑ Enhance implementation of nonstructural remediation
- ❑ Create earthquake planning scenarios
- ❑ Determine potential fault rupture characteristics and maximum earthquakes (associated ground motions)
- ❑ Inventory unreinforced masonry buildings in Nevada
- ❑ Promote coordination through private and public entities to improve statewide earthquake monitoring capabilities
- ❑ Provide surface-fault setback criteria for land use plan and policy

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GOAL SUMMARY

GOAL 4: Policy and Recommendations

Develop policy and recommendations that promote earthquake safety

OBJECTIVES:

- ❑ Identify legislative champions to promote legislation adopting seismic safety provisions
- ❑ Promote the adoption of earthquake safety guidelines by industry, agencies, and jurisdictions
- ❑ Partner with business, organizations and others to support NESC policy recommendations
- ❑ Identify potential funding sources for developing and implementing NESC policies and recommendations

STRATEGIES:

- ❑ Develop guidelines for identification of potential funding sources such as building permit surcharge.
- ❑ Develop a set of model laws that would reduce earthquake risk for presentation after a major earthquake occurs in Nevada
- ❑ Develop a set of model laws that would reduce earthquake risk for presentation before a major earthquake occurs in Nevada
- ❑ Develop an outreach program and bring business and industry representatives into Council activities
- ❑ Encourage seismic retrofit of deficient essential (economic and lifeline) structures and infrastructure
- ❑ Encourage seismic retrofit of public safety facilities (911 communications, hospitals, fire, law enforcement and ambulance facilities, etc.)

APPENDIX A

NESC

Bylaws

Members and Officers

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BYLAWS
NEVADA EARTHQUAKE SAFETY COUNCIL
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I. Authority

The Nevada Earthquake Safety Council (“Council”) was established through the authority contained in Nevada Revised Statutes (“NRS”) Chapter 414, which authorizes the Chief of the Nevada Division of Emergency Management and Homeland Security (“NDEM”) to carry out the emergency management program for the State of Nevada.

II. Purpose and Mission

It shall be the duty of the Council to act as an advisory body to the NDEM. The Council will facilitate public input, develop consensus about earthquake issues within the public and private sectors, and will serve as the public advisory body for State earthquake policy.

III. Membership

The Chief of the Department of Public Safety, Division of Emergency Management and Homeland Security (“Chief”), shall appoint to the Council, not more than 22 voting members, including representatives from southern and northern Nevada or statewide representation with expertise in the following disciplines:

Business and Industry
Government
Geosciences
Engineering
Community
University

Building Officials
Insurance Industry
Education
Seismology
State Legislators

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IV. Term

The term of office of each member of the Council is two years. Members may be reappointed at the pleasure of the Chief, and there is no limit on the number of terms that a member may serve. If a member leaves the entity they represent, or fail to attend two (2) consecutive meetings, they must offer their resignation to the Chief. Membership shall be terminated at the discretion of the Chief.

V. Compensation

Each member of the Council, while engaged in the business of the Council, is entitled to receive travel and a per diem allowance, as allowed by law and if preapproved by the NDEM.

VI. Meetings

The Council meetings will be called quarterly. Additional meetings may be called at the discretion of the Chief of the NDEM or the Chair of the Council, with the approval of the NDEM.

The Council meetings are subject to the Nevada Open Meeting Law contained in Chapter 241 of the Nevada Revised Statutes.

VII. Committees

The Council may appoint committees deemed necessary to aid in the performance of its duties. The Chair shall appoint to a committee the number of committee members that the Chair determines to be appropriate. All committees will provide quarterly status reports to the Chair. The Chair of the Committee must be a member of the Council. The members of the Committee need not be members of the Council.

Committee meetings are subject to the Nevada Open Meeting Law contained in Chapter 241 of the Nevada Revised Statutes.

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VIII. Voting

A simple majority of the Council members constitutes a quorum for the transaction of business pursuant to the Nevada Open Meeting Law.

Proxies are not recognized by the Nevada Open Meeting Law. Proxies do not count towards quorum and cannot vote.

IX. Officers and Duties

The Officers of the Council shall consist of the Chair and Vice Chair.

- a) Chair – The Chair is appointed by the Chief. The Chair will serve a one year term starting on January 1st. The Chair is the leader of the Council and will be the presiding officer at all of the meetings.

Chair shall provide reports to the Chief of NDEM on or before June 30 and December 31 of each year detailing the activities of the Council.

- b) Vice Chair – The Vice Chair is elected by the membership of the Council. The Vice Chair will serve a one year term starting on January 1st.

In the absence of the Chair, the Vice Chair will assume the responsibilities of the Chair.

In the event that both the Chair and the Vice-Chair are unable to perform their duties, the Chief of NDEM will appoint an Interim Chair.

There is no limit to the number of terms that a member can serve as the Chair or Vice Chair. Only members of the Council are eligible to serve as the Chair or Vice Chair of the Council.

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X. Administrative Support

The NDEM shall provide administrative support to the Council.

XI. Adoption and Amendment to the Bylaws

The Bylaws shall be adopted by the majority vote of a quorum of Members present at a Council meeting, with the approval of the Chief of NDEM.

These Bylaws were adopted by the Nevada Earthquake Safety Council on _____, by majority vote of the Council.

Ron Lynn, Council Chair

Date

Chris B. Smith, NDEM Chief

Date

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NEVADA EARTHQUAKE SAFETY COUNCIL

Members and Officers

(As of August 8, 2012)

| | |
|--|---|
| Business and Industry, Southern Nevada | Steve Koenig Bellagio Resorts |
| Business and Industry, Northern Nevada | Jim Reagan NV Energy |
| Insurance Industry (statewide) | vacant |
| State Government (statewide) | Jim Walker Nevada Department of Transportation |
| Local Government, City | Wayne Carlson Nevada Public Agency Insurance Pool (Carson City) |
| Local Government, County | Joe Curtis Storey County Emergency Management |
| Seismology (statewide) | Graham Kent Nevada Seismological Laboratory (UNR) |
| Geosciences, Southern Nevada | Woody Savage U.S. Geological Survey (Emeritus) Applied Geophysics Center (UNLV) |
| Geosciences, Northern Nevada | Craig dePolo (pending approval by chief of DEM) Nevada Bureau of Mines and Geology |
| Engineering, Southern Nevada | Jim Werle Converse Consultants (Las Vegas) |
| Engineering, Northern Nevada | Mike Blakely Structural Engineers |
| Education (statewide) | Jenelle Hopkins Clark County School District, Las Vegas |
| Community Organizations, Southern Nevada | Jeffrey Brewer American Red Cross |
| Community Organizations, Northern Nevada | vacant |
| University, Southern Nevada | Wanda J. Taylor UNLV Department of Geoscience and Applied Geophysics Center |
| University, Northern Nevada | Ian Buckle UNR Center for Civil Engineering Earthquake Research |
| Building Official, Southern Nevada | Ronald L. Lynn Clark County Department of Development Services |
| Building Official, Northern Nevada | Alan Bennett City of Reno |
| Member at Large, Southern Nevada | Jim O'Donnell UNLV |
| Member at Large, Northern Nevada | Eric Hubbard Geological consultant, Reno |
| Elected Official, Southern Nevada | vacant |
| Elected Official, Northern Nevada | vacant |

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OFFICERS

| | |
|------------|-----------------|
| Chair | Ronald L. Lynn |
| Vice Chair | (To be Elected) |
| Secretary | NDEM |

Appendix B

Funding Guidelines

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Funding Guidelines

INTRODUCTION:

The intent of this appendix is to provide general guidelines for acquiring the necessary funding to support the needs of each Committee and the Nevada Earthquake Safety Council as a whole. Although the Earthquake Safety Council's Strategic Plan is recognized by the State of Nevada, it is not automatically financed by federal, state or local government funds. It is the responsibility of membership to secure funding for the implementation of the tasks.

RESOURCE REQUIREMENTS AND STRATEGY:

The profile of each Goal requires clear identification of personnel and financial resources required to accomplish that Goal. Resource needs should include, but are not limited to; consulting, travel, printing or publishing, public information or media time, wages and training. The identification of these needs should be made both singularly and summarily because strategies to secure certain funding will vary. For example, travel may be partially funded through airline or private industry, versus funding for wages and training maybe accomplished through governmental budget requests or grants.

ACTIVITY REVIEW:

The activities and efforts of all committees are directed to accomplish the Mission and Goals of the Nevada Earthquake Safety Council. In so doing, it is important that each Committee's resource needs and funding be communicated to the Members. This is intended to ensure; 1) the Council can support funding requests to federal state and local government and agencies; 2) accumulation of resources needed from all Committees facilitating joint funding where appropriate; and 3) ensure the success of individual Committee's funding efforts for projects that will achieve the Goals of the Earthquake Safety Council. Reviews can also be accomplished through an Ad Hoc Committee on Budgets and Finance.

PROJECT SUMMARY:

Each year the Council will request the submission of projects from Committees for ranking and prioritizing the projects for potential funding sources. Attached to this appendix is a copy of the NESC Project Summary Sheet that will provide the appropriate information to the Council for evaluation.

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FUNDING SOURCES:

Funding of a project or program is less and less a question of “Who” should pay the bill, and more the question of “How.” Because public funds are in increasingly short supply, it is necessary to become more innovative and creative to get the job done. In the FEMA publication Guide 266

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Table 4-1. Pre- and Post-Disaster Hazard Management Policies, Programs, and Capabilities

| Funding Agency (Federal, State, Local, Private) | Hazard | Program | Type of Hazard Management Capability | | State Involvement | | | Description of Program, Policy, Regulation; links |
|---|------------|--|--|---------------|-------------------|------------|-------|--|
| | | | Pre-Disaster | Post-Disaster | Support | Facilitate | Funds | |
| National Institute of Science and Technology (NIST); FEMA; US Department of Interior, USGS; National Science Foundation (NSF) (Partnering with UNR-NBMG, NSL, UNLV) | Earthquake | National Earthquake Hazard Reduction program (NEHRP) in Earth Sciences | √ | | √ | √ | | NEHRP provides grants to states or local jurisdictions for training, planning, and technical assistance related to earthquake hazard reduction. http://www.nehrp.gov/contracts/solicitations.htm |
| USGS, FEMA, NIST, and NSF (Partnering with UNR-NBMG, NSL, UNLV) | Earthquake | National Earthquake Hazard Reduction program (NEHRP) in Earth Sciences | √ | | √ | √ | | NEHRP Provides grants for seismic mapping for U.S. HAZUS loss-estimation modeling, fault-hazard identification, liquefaction-hazard identification, landslide-hazard identification, probabilistic seismic hazard analysis, ground-shaking microzonation, basin-effect analysis, earthquake process research. http://www.nehrp.gov/contracts/solicitations.htm |
| USGS, FEMA, NIST, and NSF (Partnering with UNR-NBMG, NSL, UNLV, NES, UNR) | Earthquake | National Earthquake Hazard Reduction program (NEHRP) | √ | | √ | √ | | Research into basic and applied earth and building sciences. http://www.nehrp.gov/contracts/solicitations.htm |

Appendix C

Historical Documentation

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Nevada Earthquake Safety Council

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1992-1998

- Established a means of communication among earthquake stakeholders statewide.
- Coordinated earthquake safety efforts
- Provides a uniform, consistent voice for earthquake safety and scientific data
- The NESC Strategic Plan

1999-2011

- Developed legislature for seismic safety (see summary of AB57 below)
- Enhanced funding to seismic field
- Increased awareness and preparedness efforts statewide
- Increased earthquake drills in schools
- Increased earthquake awareness for teachers statewide
- Improved earthquake disaster response through development of scenarios
- Increased the risk assessment through scientific data
- Improved working relationships among stakeholders
- Included the Insurance field for economic protection of the public
- Completed the Wells Earthquake Damage Report
- Provides awareness through publications – real time. For example the Mogul 2008 swarm
- Supported the hazard mitigation program with earthquake hazard risk assessment analysis

Detailed Annual reports for the Council from 1999 to 2011 are available for review at <http://www.nbmng.unr.edu/nesc/>

This document, in its current form, is a revision of the founding Strategic Planning document which was the result of the efforts of many individuals and entities who collectively form the Nevada Earthquake Safety Council. Specifically, grateful thanks are expressed by the Council to the following individuals assigned to the

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Ad Hoc Committee for coordinating the development of the Strategic Plan for Earthquake Safety in Nevada (Strategic Plan): Mr. Press Clewe of the Washoe County Department of Emergency Management; Ms. Sheila Clement of the Carson City Department of Emergency Management; Ms. Tisha Johnson of the Nevada Division of Emergency Management; Ms. Alice Baldrice of the State Office of Historic Preservation; Mr. Gene Foster of the Nevada Department of Employment, Training and Rehabilitation; Mr. Charles Watson of Advanced Geological Exploration/Seismo-Watch; Mr. Ken Olive of Sierra Pacific Power Company; Mr. Mike Blakely of Blakely Johnson & Ghush, Ltd.; and Mr. Greg Moss of AGRA Earth & Environmental, Inc.

We are grateful to the following individuals for their foresight in improving this planning document with a vision to the future contributions and efforts of the Nevada Earthquake Safety Council. These individuals include: John Anderson, Nevada Seismological Laboratory, Mike Blakely, Blakely, Johnson, and Ghush, Wayne Carlson, Nevada Public Agency Insurance Pool, Kamala Carmazzi, Nevada Division of Emergency Management, Craig dePolo, Nevada Bureau of Mines and Geology, Diane dePolo, Nevada Seismological Laboratory, Jim O'Donnell, UNLV, Terri Garside, Nevada Bureau of Mines and Geology, Mark Harris, Public Utilities Commission, Jenelle Hopkins, Centennial High School, Las Vegas, Carolyn Levering, American Red Cross, Ron Lynn, Clark County Building Department, Barbara Luke, UNLV Dept. of Civil & Environmental Engineering, Greg Moss, The Moss Group, Jon Price, Nevada Bureau of Mines and Geology, Jim Reagan, Sierra Pacific Power Company, Burt Slemmons, University of Nevada, Reno (retired), Frank Siracusa, Nevada Division of Emergency Management

Strategic Planning Ad Hoc Committee, November 15, 2001

2011-2012

- Potential unreinforced masonry building inventory