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"NATIONAL SURVEY FOR SEISMIC PROTECTION" MINISTRY OF TERRITORIAL ADMINISTRATION AND EMERGENCY SITUATIONS OF REPUBLIC OF ARMENIA

COUNTRY REPORT: REPUBLIC OF ARMENIA

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LOCATION OF ARMENIA AND NEIGHBORING COUNTRIES



ARMENIA STRADDLES THE LESSER CAUCASUS MOUNTAINS. IT IS BORDERED IN THE NORTH BY GEORGIA, IN THE SOUTH BY IRAN, IN THE EAST BY AZERBAIJAN, AND IN THE WEST BY TURKEY.



NSSP









ARMENIAN NATIONAL SURVEY FOR SEISMIC PROTECTION

DISASTER RESPONSE AND MANEGMENT IN ARMENIAN NSSP



National Survey for Seismic Protection of Ministry of Territorial Administration and Emergency Situation of RA

www.mtaes.am

THE DISASTERS IN ARMENIA





Armenian National Survey for Seismic Protection (NSSP)

was founded under the Government of the Republic of Armenia on July 17, 1991. Armenian NSSP is under the Ministry of Territorial Administration and Emergency Situation.

LAWS AND REGULATIONS

Seismic Protection activities are regulated by a number of laws and legislative acts and national programs of the Republic of Armenia:

| Law of RA | The Law of the Republic of Armenia on Seismic Protection (2002) |
|------------------------------|--|
| Resolutions of Government | The Complex Program of Seismic Risk Reduction in the RA Territory (1999) |
| | The Complex Program of Seismic Risk Reduction in Yerevan city (1999) |
| | The Resolution of the Government of RA on establishment of the list of critical important and general facilities in the field of seismic protection (2003) |
| | |
| Regulation | "National Survey for Seismic Protection" Agency (2008) MENIAN NSSP |

The basic goal of NSSP is Seismic Risk Reduction in Armenia.

Armenian NSSP has developed two Strategic National Programs on "Seismic Risk Reduction in Armenia" and "Seismic Risk Reduction in Yerevan-city". The Programs, adopted by the Government of the Republic of Armenia on the 10th and 7th of July in 1999 are designed for 30 years. All the Ministries and other Governmental, non-Governmental and private organizations will implement these National Programs under the general coordination of Armenian NSSP assigned by the Government as a responsible body for the Seismic Risk Reduction Strategy development and implementation.



There are four types of seismic network in Armenia:

- Guralp Network
- Vayk Network
- Regional Network
- Global Seismograph Network Station (IRIS)

In Garni, at the geophysical observatory, installed seismic recording station. This station included in the IRIS Global Seismographic Network (GSN) and providing seismographic data to research earthquake hazard mitigation and the verification of a Comprehensive Test Ban Treaty (CTBT). It is also the goal to provide real-time access to its data via satellite. GSN Garni station meet this goal.



GURALP STATION



VAYK STATION







NEW BUILDING OF NSSP IRIS STATION









MAP OF FAULTS









SEISMIC RISK MAP OF RA



Tasks of Building and Structure Seismic Risk Evaluation Division

- Data base creation for urban planning of towns and settlements using GIS technology
- Urban planning detailed mapping
- Estimation of facilities' design seismic resistance
- Seismic risk evaluation for towns and settlements
- Seismic risk mapping for towns and settlements
- Rapid damage estimation for towns and settlements in epicentral zone in case of major earthquake.

Yerevan city



Seismic Microzonation Map of Yerevan City







- seismologist-seismotectonist
- seismologist
- geo-technician
- earthquake engineer
- communication engineer
- public awareness expert
- logistics, rescuer
- psychologist

The basic goal of NSSP is Seismic Risk Reduction in Armenia

SRR Strategy includes:

- Seismic Hazard and Risk Assessment;
- Vulnerability reduction in urban areas, including reinforcement and upgrading of existing buildings, design of new codes and standards;
- Public awareness, people education and training;
- Early warning and notification;
- Partnership establishment, involving public and private organizations;
- Risk management, including Emergency Response and Rescue Operations;
- Disaster relief and people rehabilitation;
- ✓ Insurance;
- ✓ State disaster Law and regulations.



ARMENIAN NSSP MAIN TASKS:

- > seismic monitoring
- > current seismic hazard assessment
- > seismic and secondary hazard assessment
- seismic risk evaluation and reduction, early warning

incuding

- earthquake engineering
- population education and training
- preparedness of government officials and local authorities
- development of early warning system
- compiling of hazard and maps

