



# Seismic Requirement

- **General** – The purpose of the seismic requirement is primarily to safeguard against the loss of life and to limit the damage to the extent that to be able to recover the function within a reasonable budget and a time frame.
  - **International Modal Codes provide minimum seismic requirement to safeguard against the loss of life**
    - e.g. Every structure, and equipment, including components that are permanently attached to structures and their supports and attachments, shall be designed and constructed to resist the effects seismic ground motion specific to the construction site
  - **The owner or the user of the facility sets the limit for the extent of the acceptable damage**
    - e.g. The SLAC Earthquake Design Specification requires that building, structures, equipment, and systems should suffer very little damage from a moment magnitude 7.0 earthquake and should be “life safe” for moment magnitude for 7.5. Also, SLAC should be able to operate within a few months of the magnitude 7.0 events.