



People Helping People Build a Safer World™

Presentation to

NIST Conference on Standards Policy and  
Practices for Federal Agencies

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# ICC Code Development Process

- ICC Mission - Providing the highest quality codes, standards, products, and services for all concerned with the safety and performance of the built environment
- Advancing public safety in the built environment is the central purpose of the ICC code development process. Everything produced is derived from and shaped by that core mission.

# ICC Code Development Process

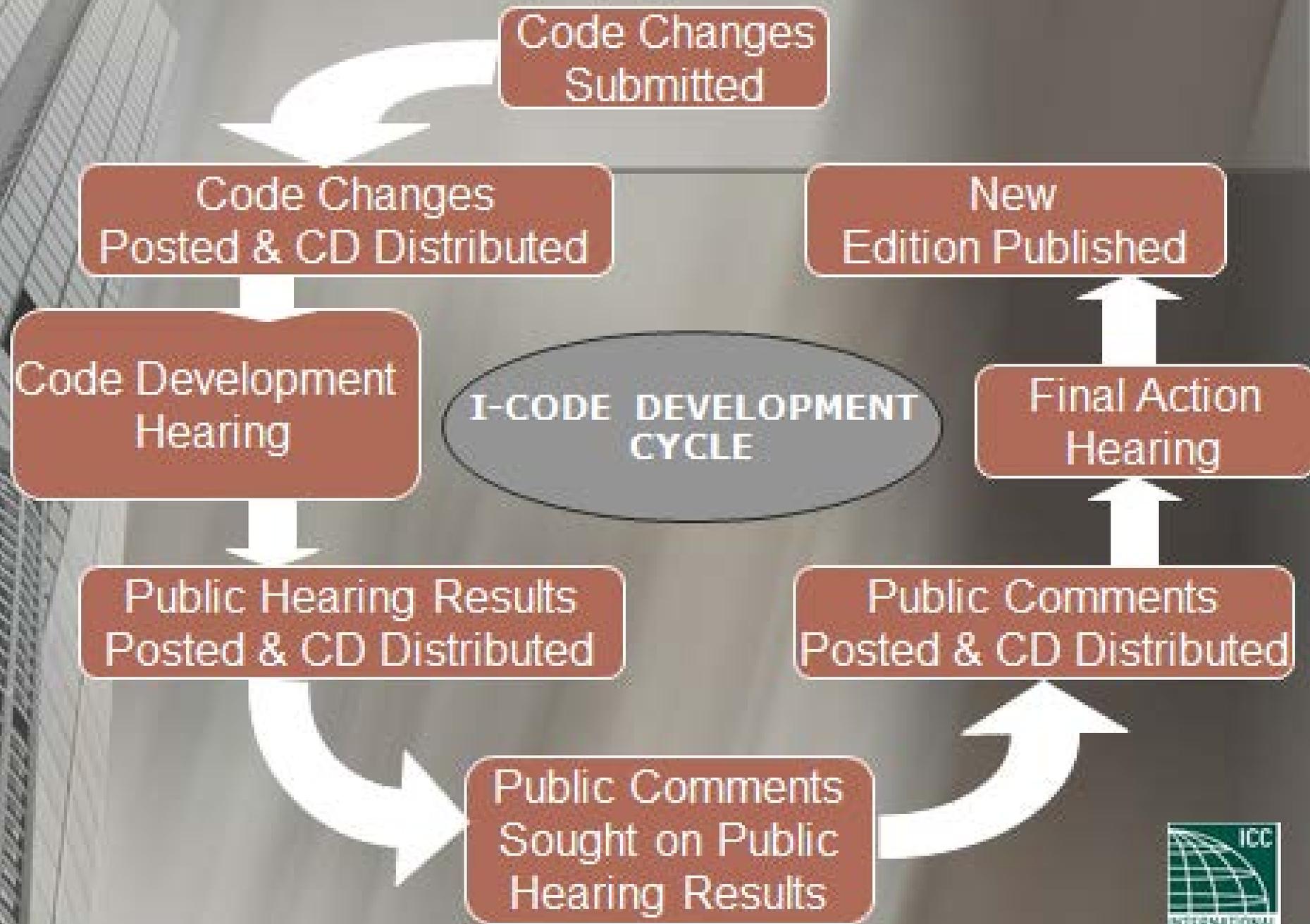
- Utilize a process open to all parties with safeguards to avoid domination by proprietary interests.
- ICC Governmental Consensus Process achieves this with the final vote resting with those administering, formulating or enforcing regulations relating to public health, safety and welfare.

# Code Committees

- Representation of interests
- **General:** Consumers, Regulators
- **Producer:** Builders, Contractors, Manufacturers, Material Associations, SDO's, Testing Labs
- **User:** Academia, Designers, Research Labs, Owners, Product Certifiers
- Not less than 33% of each committee are Regulators

# The Process

- Open
- Transparent
- Balance of Interest
- Due Process
- Consensus
- Appeals Process



# IBC/IRC are the state-of-the art codes for mitigation of environmental hazards

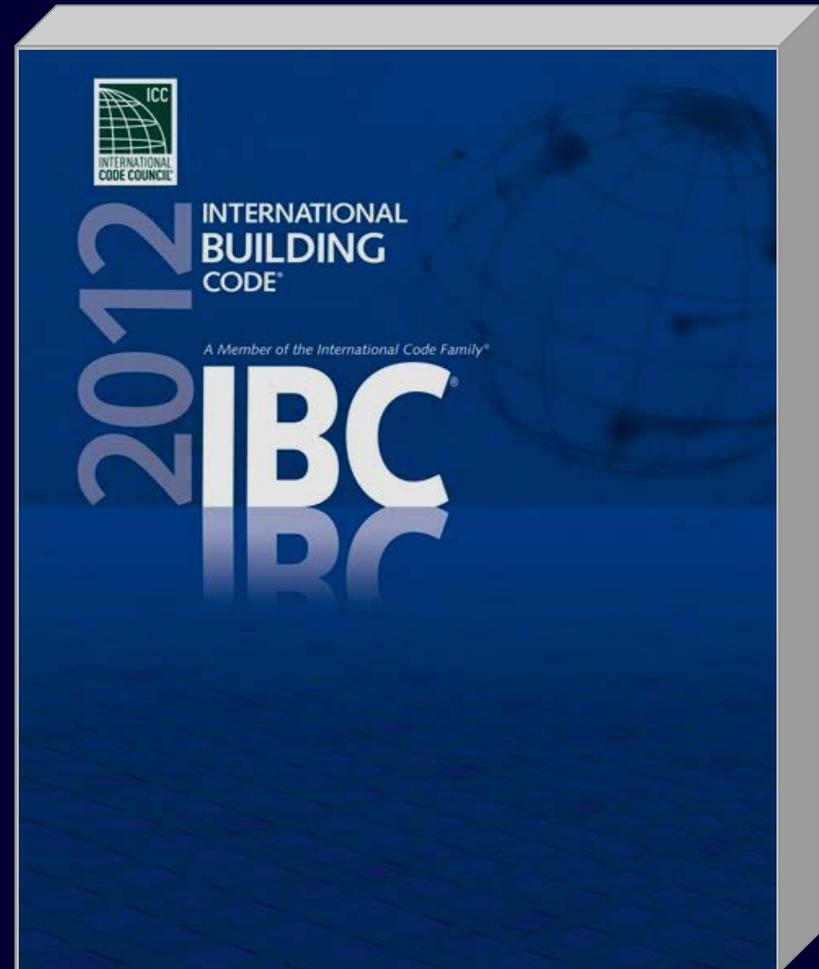
- Wind
- Fire
- Earthquake
- Flood
- Tsunami



# IBC Chapter 16

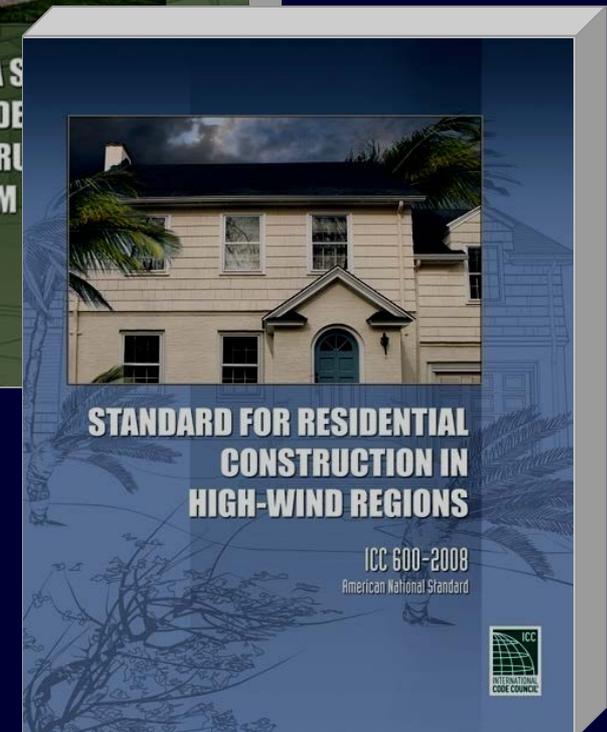
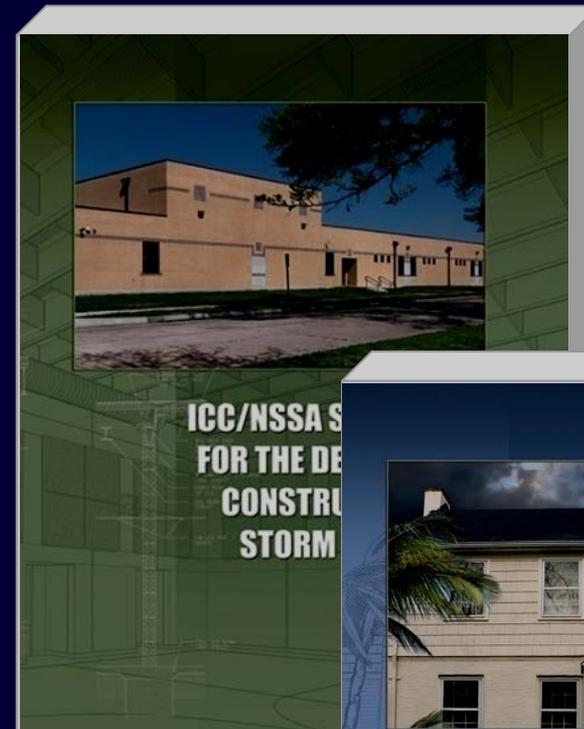
## Structural Design

- 1608 – Snow loads
- 1609 – Wind loads
- 1610 – Rain loads
- 1612 – Flood loads
- 1613 – Earthquake loads
- 1614 – Structural integrity for high rise



# IBC/IRC Referenced Standards for high wind and storm shelters

- ICC 500 – *Standard for Storm Shelters*
- ICC 600 – *Standard for Residential Construction High Wind Areas*

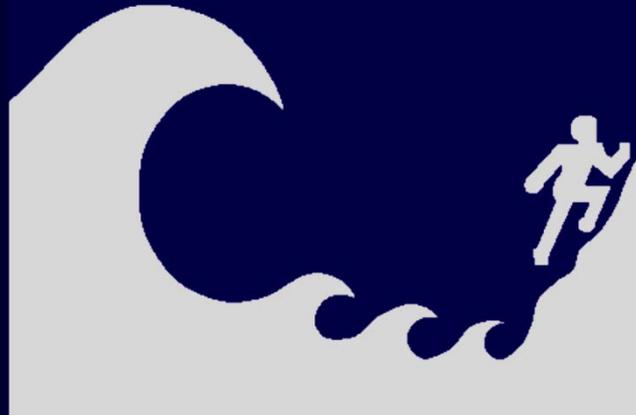


# IBC Appendices

- G – Flood resistant construction
- M – Tsunami generated flood hazards



TSUNAMI HAZARD ZONE



# 2009 NEHRP (National Earthquake Hazards Reduction Program) – USGS National Seismic Hazard Mapping Project



NEHRP Recommended

Seismic Pro

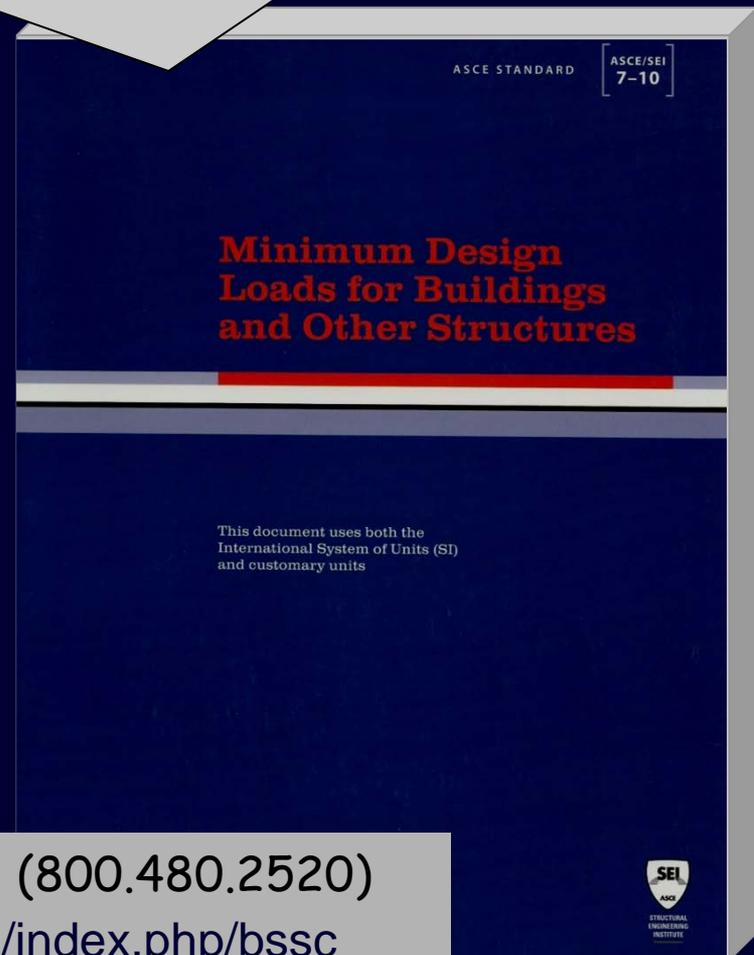
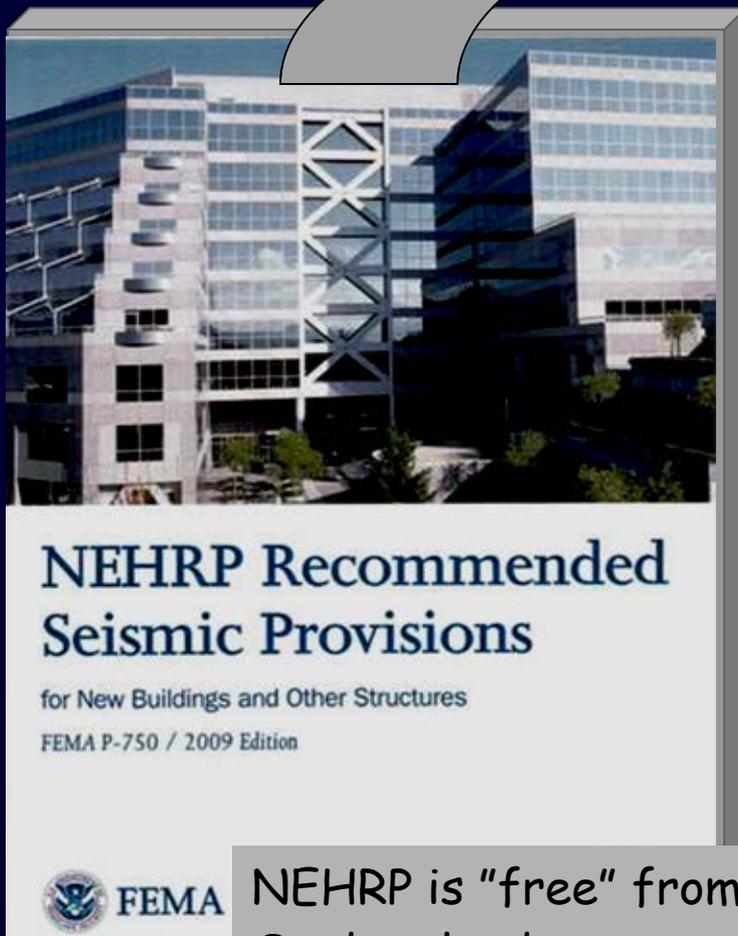
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FEMA P-750 / 2009 Edition



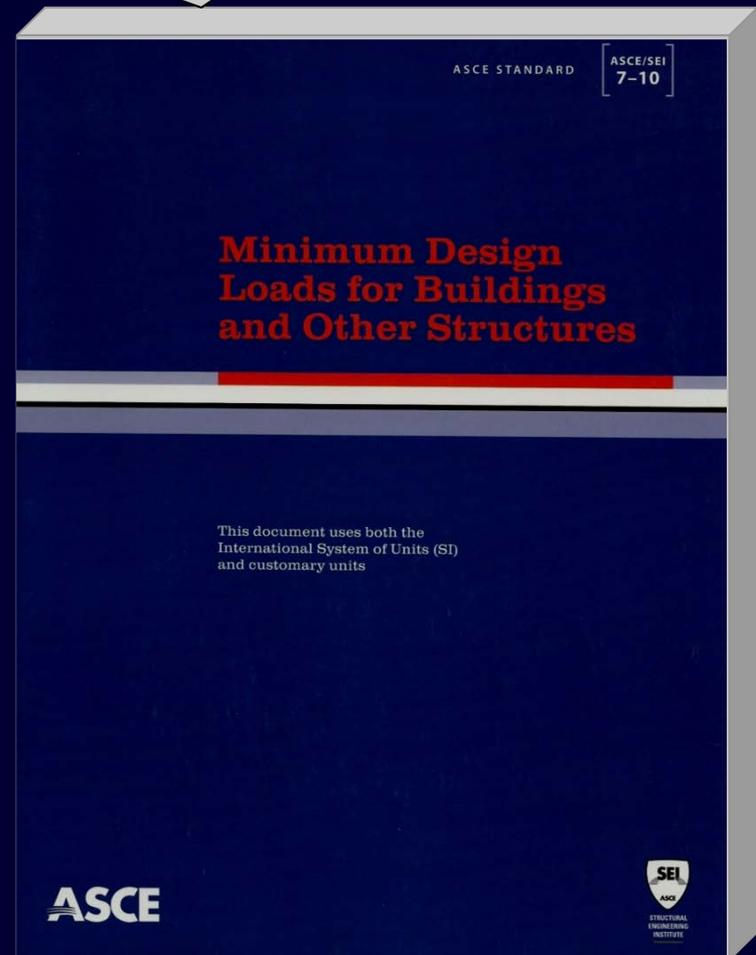
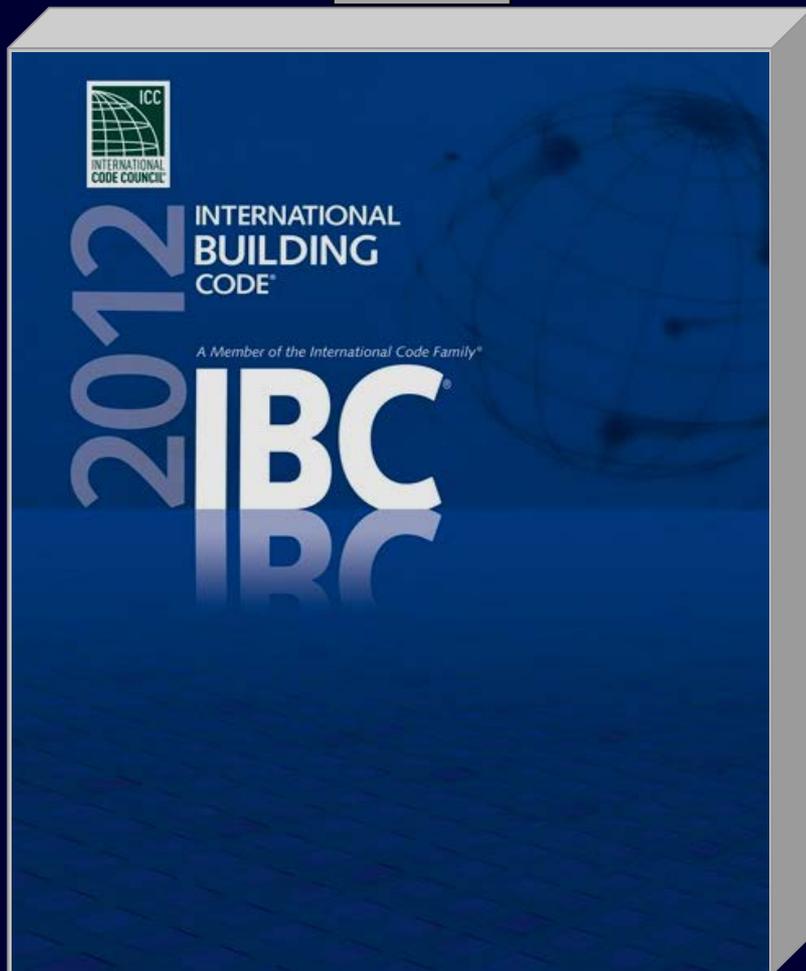
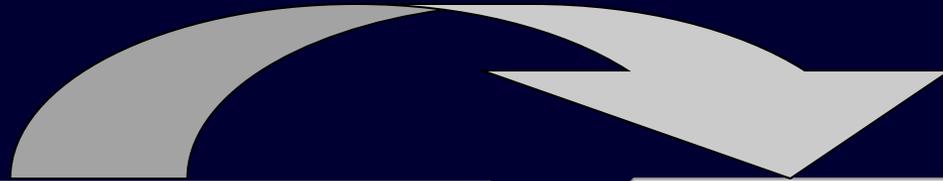
USGS National Seismic Hazard Mapping Project and changes adopted in 2009 NEHRP (a guide) are part of ongoing effort to ensure most current earthquake hazard information available to users of IBC

# Most current NEHRP Seismic Provisions incorporated into ASCE 7-10 (Minimum Design Loads for Buildings and Other Structures)



NEHRP is "free" from FEMA (800.480.2520)  
Or download at [www.nibs.org/index.php/bssc](http://www.nibs.org/index.php/bssc)

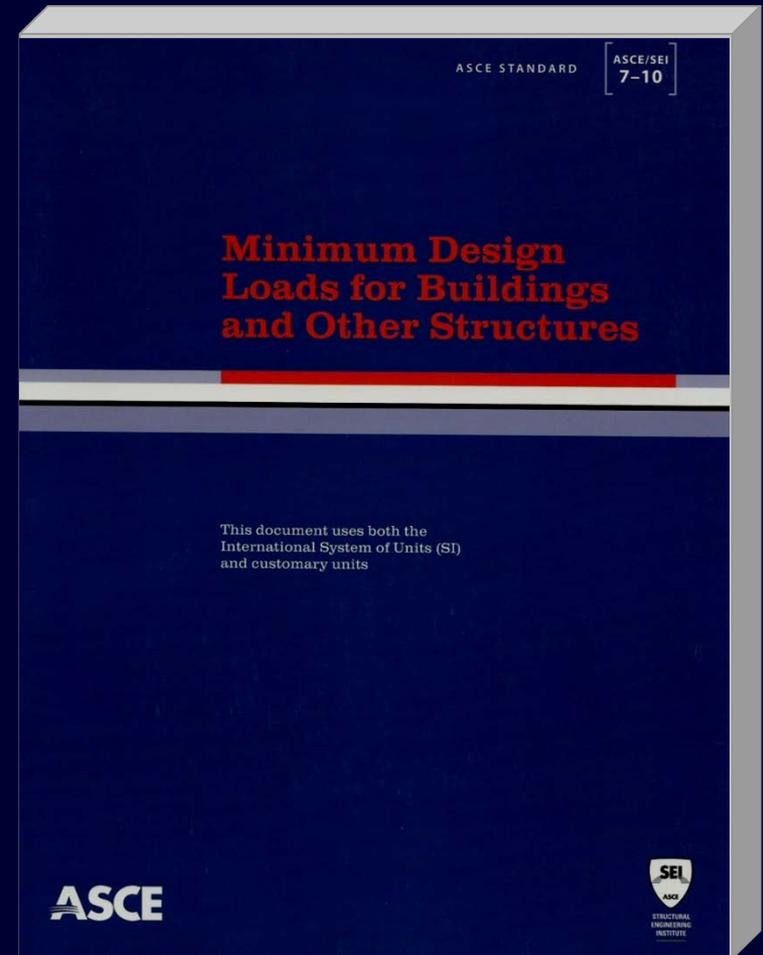
# 2012 IBC references ASCE 7-10



# ASCE 7-10

## Most current standard for structural loads

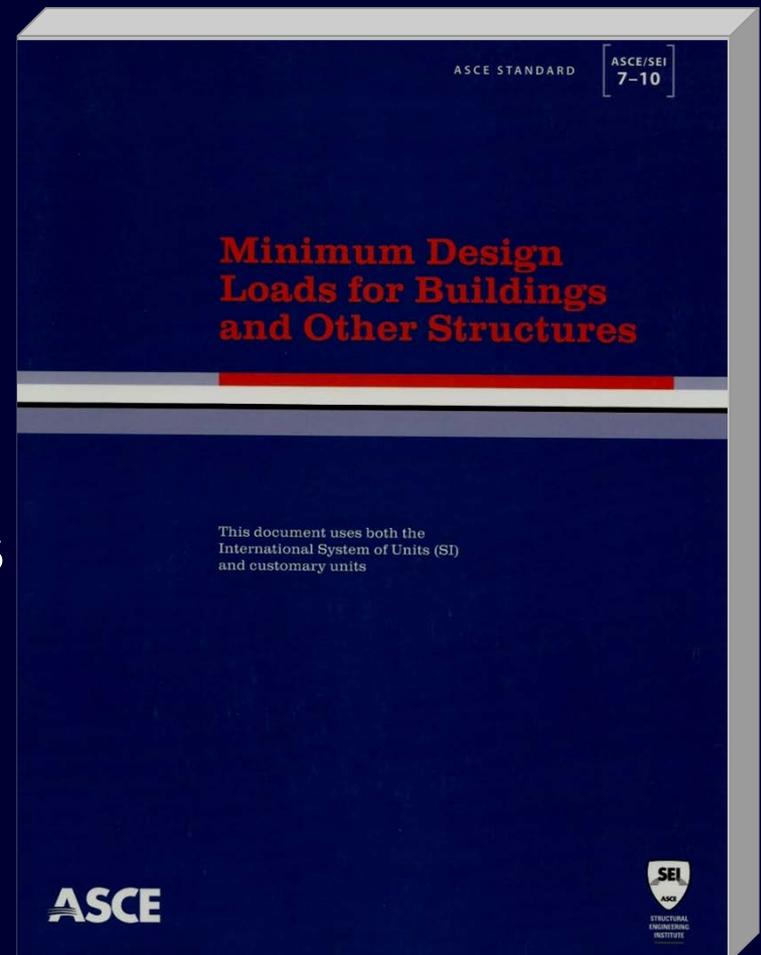
- Extensive wind load design provisions...
- Most current seismic design provisions...



# ASCE 7-10

## Most current standard for structural loads

- Most current seismic design provisions...
  - Building structures
  - Non-building structures
  - Nonstructural components



# Code Adoption

- All I-Codes are “model” codes, designed for direct adoption as legally enforceable law in the jurisdiction (state or city/county)
- There is no single “usual” way codes are adopted, each state and many local governments, have different schedules, processes, and systems for adoption.
- All 50 states have adopted the IBC and IRC at state/ local level. IFC- 43; IECC-42

For further information



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**... or visit the ICC website**  
**<http://www.iccsafe.org>**