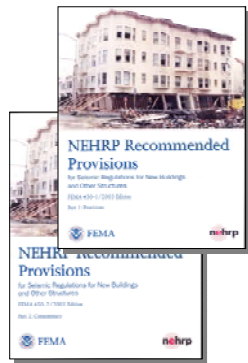


## INTRODUCTION

### Development of the NEHRP Recommended Provisions



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## NATIONAL EARTHQUAKE HAZARDS REDUCTION PROGRAM



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## San Fernando, 1971

- Damage to Olive View Hospital
  - Stair tower separated from building
  - Near collapse in second story



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## Responses to San Fernando

- 1972 Workshop - Improve codes
- 1974 SEAOC - Quick Change
  - Higher forces
  - Soil factor
  - Importance factor
- 1974-76 ATC-3 Project
  - Fundamental changes
- 1977 Earthquake Hazard Reduction Act



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## Creation of NEHRP

- Public Law 95-124: EHRA of 1977
  - "to reduce risks to life and property from future earthquakes in the United States."
- Construction
- Model codes
- Plus response, recovery, and many other concerns



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## Principal NEHRP Agencies

- Federal Emergency Management Agency
- National Institute of Standards and Technology (new lead agency)
- United States Geological Survey
- National Science Foundation



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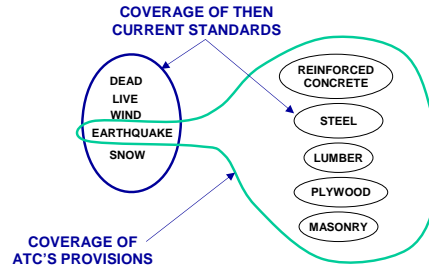
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## ATC-3 Report

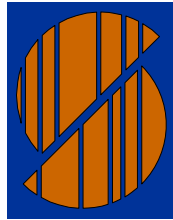


- 1978 Publication of ATC / NSF / NBS
- New approaches:
  - Nationwide
  - Probabilistic
  - Inelastic behavior
  - Strength level
  - Nonstructural
  - Existing Buildings

## Standards for Structural Design vs. ATC's Provisions



## Building Seismic Safety Council



## BSSC

- Private, voluntary
- A council of NIBS
- National forum for issues:
  - Technical
  - Social
  - Economic
- 60+ organizational members
- Consensus process

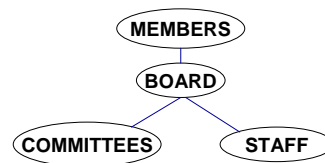
## BSSC Members

### Building Community Organizations

Examples:

ACI	AF&PA	AIA	AISC
AISI	AITC	APA	ASCE
ASME	BIA	EERI	ICC
NCMA	NCSEA	NFPA	PCA
SEAOC	TMS		

## BSSC Organization



### History of NEHRP Recommended Provisions for New Buildings

- 1974-78 ATC 3 Tentative Provisions
- 1979-80 Review Committees
- 1981-84 Trial Designs
- 1985 Edition (first edition to be "Recommended")
- New editions in 1988, 1991, 1994, 1997, 2000, and 2003



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### Context and Use of the NEHRP Recommended Provisions

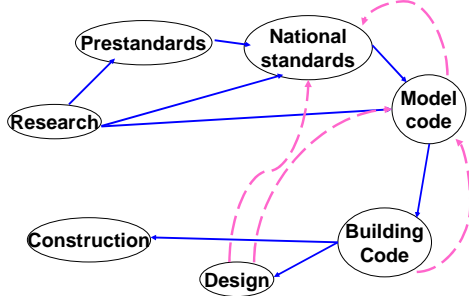
- Building codes and standards
- Organizations generating standards and model codes
- Role of BSSC



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### Information Flow Through Building Codes



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### Model Code Organizations

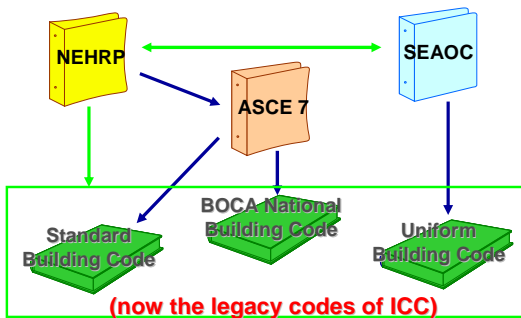
- International Conference of Building Officials
  - Uniform Building Code
- Building Officials and Code Administrators
  - National Building Code
- Southern Building Code Congress **Previous**
  - Standard Building Code **Current**
- International Code Council
  - International Building Code
- National Fire Protection Association
  - NFPA 5000



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### Prior Model of Information Flow



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