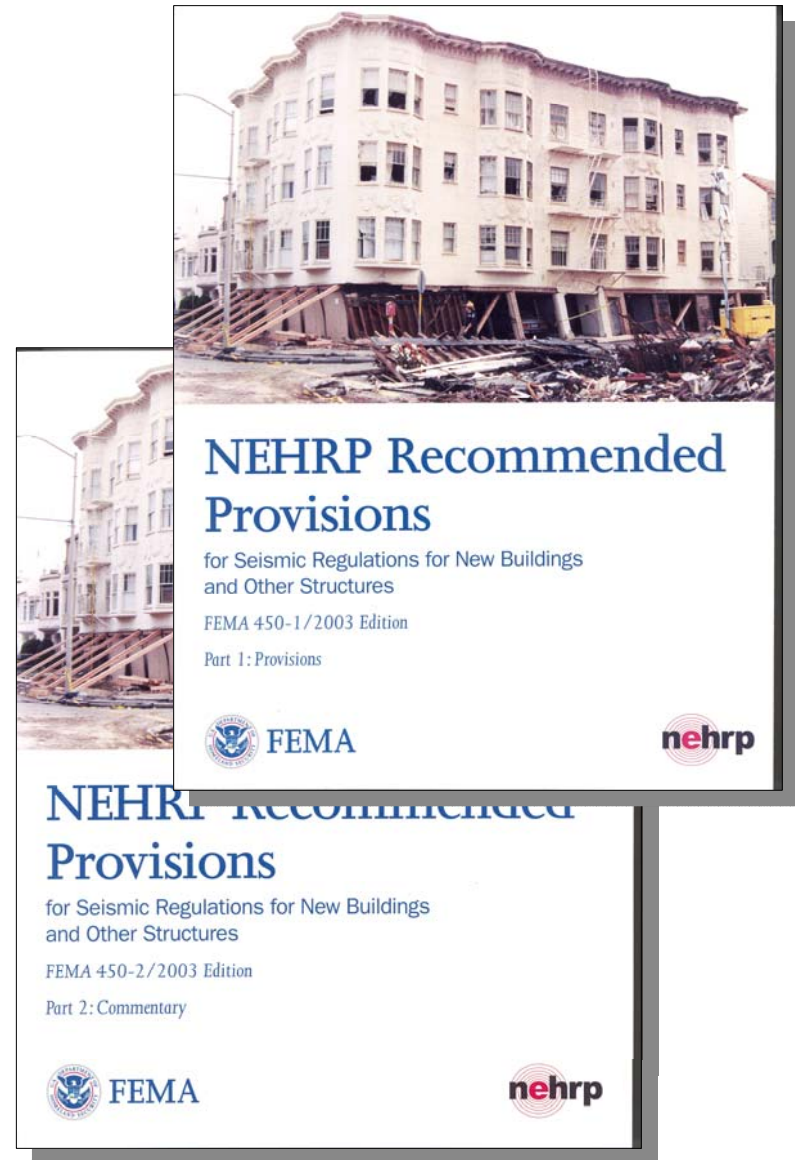


INTRODUCTION

Development of the *NEHRP Recommended Provisions*



**NATIONAL
EARTHQUAKE
HAZARDS
REDUCTION
PROGRAM**



FEMA

Instructional Material Complementing FEMA 451, *Design Examples*

Introduction to NEHRP 8a - 2

San Fernando, 1971

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



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



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

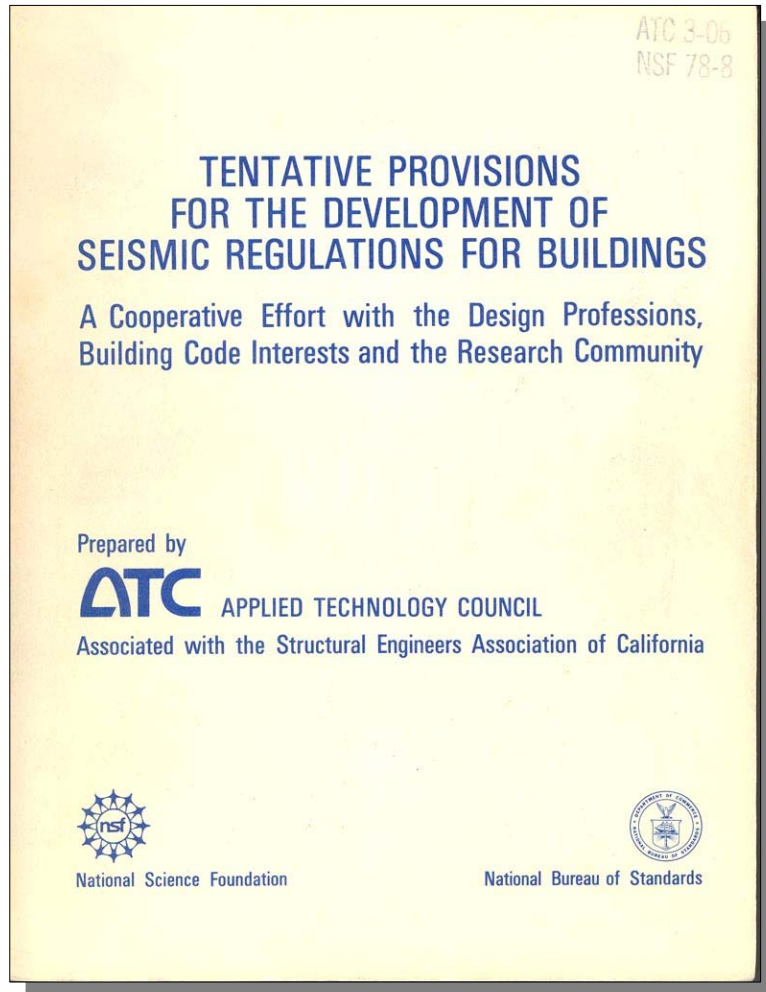


Principal NEHRP Agencies

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



ATC-3 Report



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

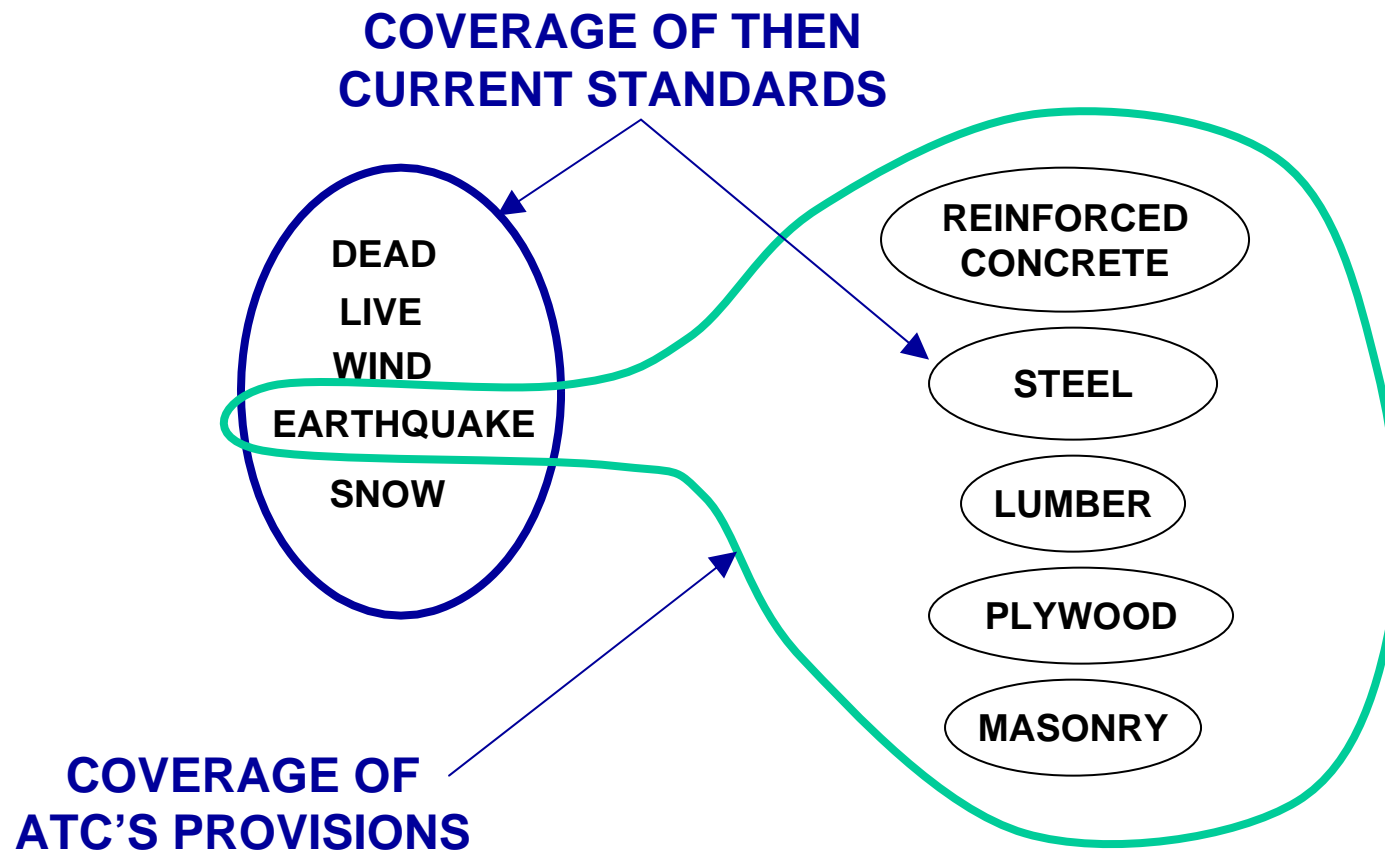


FEMA

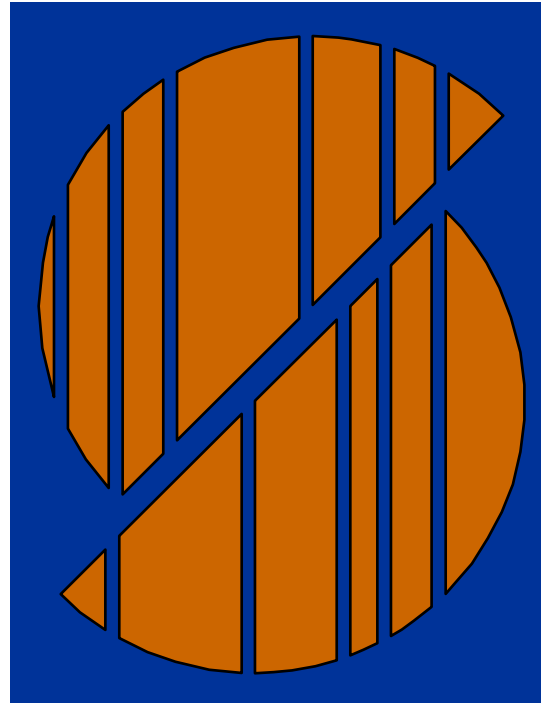
Instructional Material Complementing FEMA 451, *Design Examples*

Introduction to NEHRP 8a - 7

Standards for Structural Design vs. ATC's Provisions



Building Seismic Safety Council



FEMA

Instructional Material Complementing FEMA 451, *Design Examples*

Introduction to NEHRP 8a - 9

BSSC

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

BSSC Members

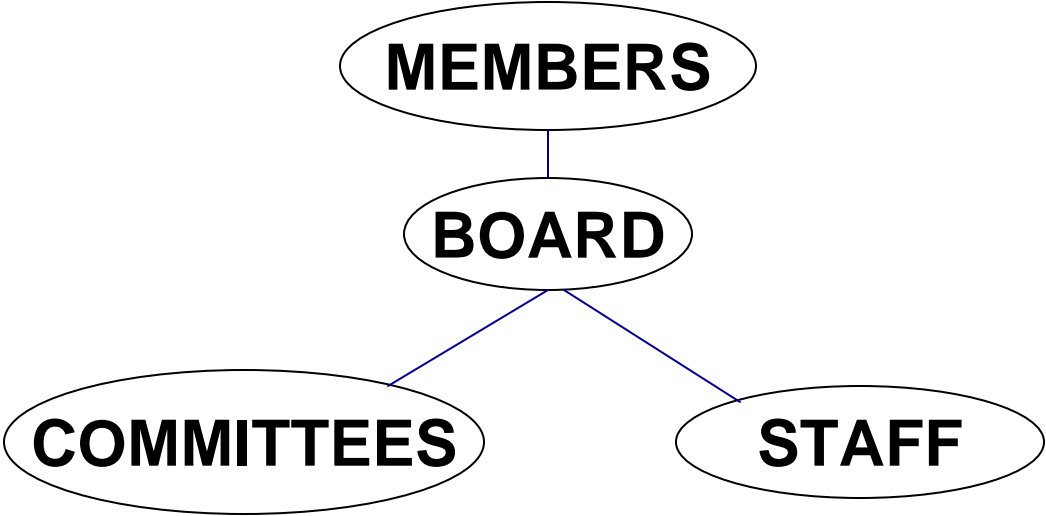
Building Community Organizations

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

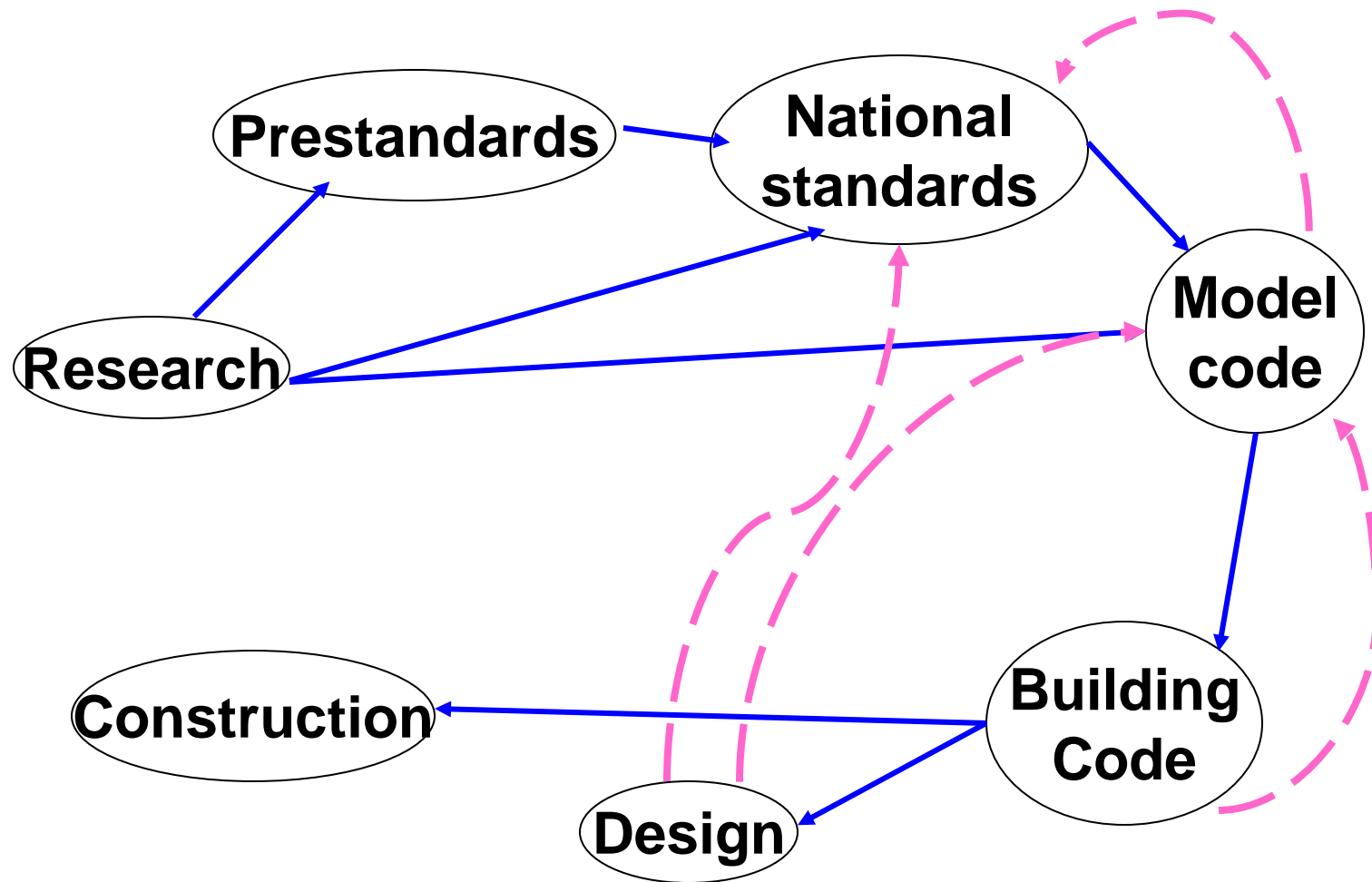
- 1974-78 ATC 3 Tentative Provisions
- 1979-80 Review Committees
- 1981-84 Trial Designs
- 1985 Edition (first edition to be “Recommended”)
- New editions in 1988, 1991, 1994, 1997, 2000, and 2003



Context and Use of the *NEHRP Recommended Provisions*

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

Information Flow Through Building Codes



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



Prior Model of Information Flow

