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**SB 1953 - California's
Blueprint for Seismically
Safe Hospitals**



Facts . . . Instead of Speculation

SB 1953

The Need . . .

The Program . . .

The Cost . . .

The Benefits . . .

Why SB 1953 ?

- **Protect life and property**
- **Provide for treatment of injured**
- **Protect investment**
- **Reduce demand on post-earthquake resources**

The Benefits . . .

SUMMARY OF REPORTED HOSPITAL BUILDING SEISMIC PERFORMANCE CATEGORIES

No. of Hospital Facilities Req'd to Report = 475
No. of Hospital Facilities Reported = 426
No. of Hospital Buildings Reported = 2467

No. of Buildings in Ea. Seismic Category					
SPC-1	=	966	NPC-1	=	1779
SPC-2	=	203	NPC-2	=	424
SPC-3	=	286	NPC-3	=	55
SPC-4	=	663	NPC-4	=	142
SPC-5	=	313	NPC-5	=	14
No Rating	=	36	No Rating	=	53

The need . . .

Olive View Medical Center



Godden Collection, Earthquake Engineering Research Center, University of California, Berkeley

The need . . .

Olive View Medical Center



Godden Collection, Earthquake Engineering Research Center, University of California, Berkeley

The need . . .

Olive View Medical Center



Godden Collection, Earthquake Engineering Research Center, University of California, Berkeley

The need . . .

VA Hospital



Godden Collection, Earthquake Engineering Research Center, University of California, Berkeley

The need . . .

VA Hospital



Godden Collection, Earthquake Engineering Research Center, University of California, Berkeley

The need . . .

Kobe Earthquake



The need . . .

Disruption to Patient Care



The need . . .

Public Expectations

- Public expectations in the past have helped dictate legislative policies and mandates
- The public has definite expectations about the performance of hospitals in an earthquake
 - Hospitals are safe
 - They will be there when needed, i.e, they will be able to provide services after an earthquake

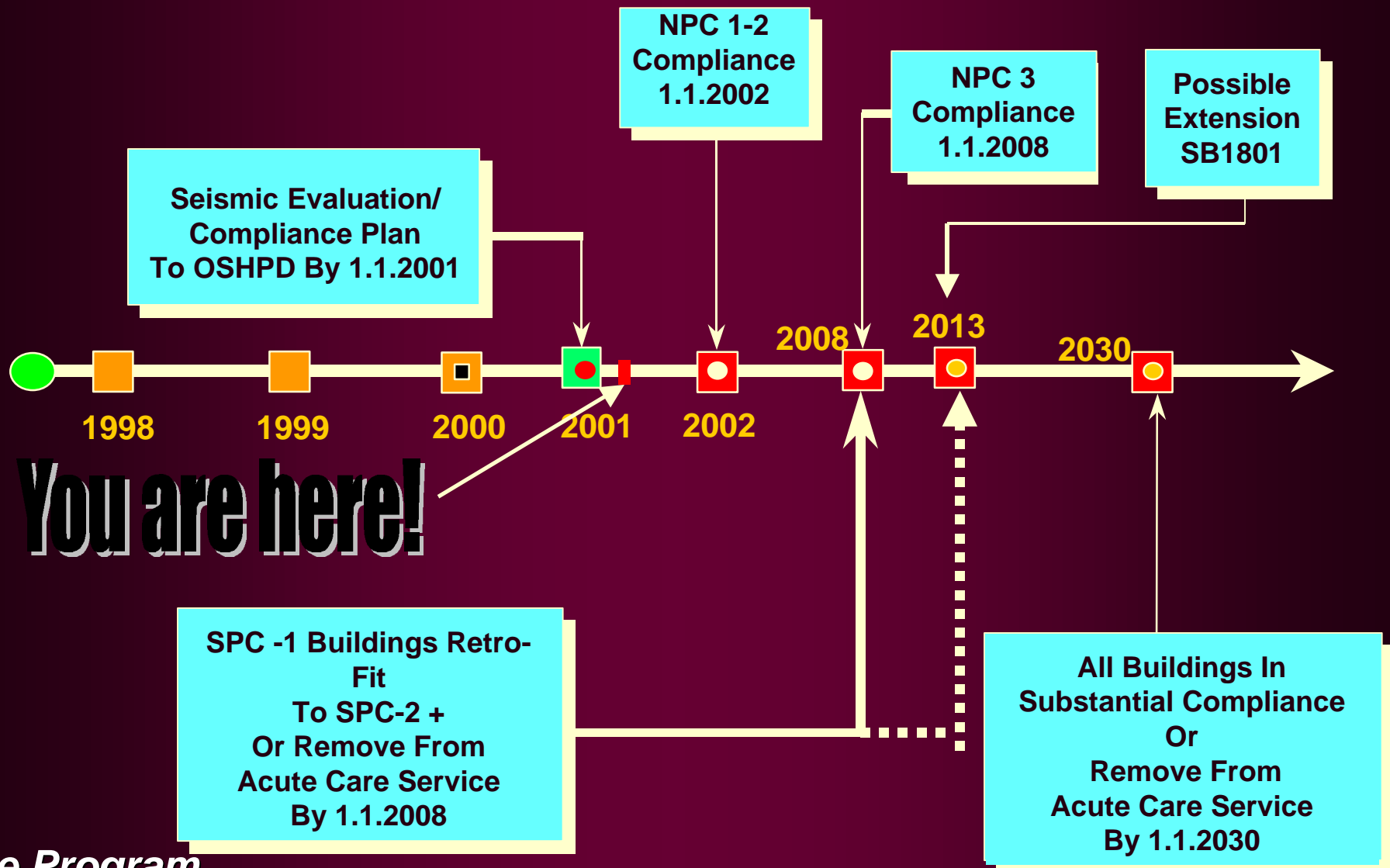
The need . . .

What is SB 1953?

- **Evaluation**
- **Database of Hospital Building Stock**
- **Retrofit to prevent collapse and loss of life**
- **Retrofit to provide continued operation after an earthquake**

The Program . . .

SB 1953 Major Milestones



The Program . . .

Structural Performance Categories

- **SPC 4 & 5** **Conforming
Buildings (post-1973)**
- **SPC 3** **Conforming Buildings
w/ Steel MRF-Near
Field (1973-1994)**
- **SPC 2** **Non-conforming Buildings
(pre-1973) - No risk to life safety**
- **SPC 1** **Significant risk to life safety**

The Program . . .

Nonstructural Performance Categories (NPC)

- **The NPCs are based on the expected performance of non-structural systems and equipment critical to patient care.**
- **Buildings ranked from "NPC 1" to "NPC 5".**
- **Ranking of "NPC 1" indicates critical systems are inadequately braced.**
- **Ranking of "NPC 5" indicates that the anchorage and bracing exceed current Title 24**

Things to Remember

- Building specific, not all are bad

Pre-1973: Problem

**Post-1973: Structure-“OK”
Nonstructural-?**

**Post-1983: Structure-“OK”
Nonstructural-“OK”**

The Cost of SB 1953

- At this time, nobody knows the actual costs of compliance
- OSHPD will not know the total costs for years
- Hospitals have been reluctant to share information

The Cost of SB 1953

- **CHA projected costs include programmatic upgrades, as well as seismic retrofit costs**
 - **Many hospitals have chosen to replace their older buildings rather than retrofit.**
 - **Rebuilding increases construction costs, but yields:**
 - ♦ **Enhanced programs**
 - ♦ **Flexibility, and**
 - ♦ **Long-term operational savings**

The Cost of SB 1953

- **CHA projected costs do not consider OSHPD decisions that reduce the costs of compliance:**
 - **Single-story wood frame exemptions.**
 - **Alternative structural strengthening criteria**
- **Projections of the “straight” SB 1953 costs for 2008 compliance may be less than \$6 billion.**
- **Rand Study**

Financial Support Available to Hospitals

- **Cal-Mortgage**
- **HUD 242 (Federal loan insurance)**
- **FEMA Hazard Mitigation Funds**
- **CHFFA - California Health Facilities
Financing Authority**

The Cost . . .

A Perspective on Costs

- OSHPD processes a minimum of \$1.2 billion of construction projects per year.
 - At an annual inflation rate of 2.7%, this equals \$10.6 billion in construction by 2008
 - Adjusted for inflation, this equals over \$54 billion in construction by 2030
- Hospitals have 36 years to comply

SB 1953 Makes a Difference

- **SB 1953 changes the way construction dollars are spent**
 - **Eliminates the practice of pouring money into structurally unsound buildings that are 30, 40, 50 years and older**
 - **Encourages construction programs that consider the safety of patients, staff, and the public**
 - **Stimulates realistic long-term planning**

The Benefits . . .

SB 1953 Improves Healthcare Delivery

- **SB 1953 will improve patient care and hospital efficiency**
 - **Current medical technology doesn't "fit" in older buildings**
 - **Buildings likely to be replaced by 2030 will be over 60 years old . . .**
 - **Consider the difficulties delivering modern healthcare today in building constructed before 1940 . . .**

The Benefits . . .

Reaction may be significant, reflecting a variety of interests

Facility Users

- Patients
- Physicians/Healthcare Providers
- Employees/Unions

Financial Interests

- Liability
- Health Insurers/HMOs
- Creditors/Bonding Brokers
- Chamber of Commerce

Government

- Governor's Office
- Legislators
- Counties/Cities/Districts

News Media

www.oshpd.state.ca.us