

Facilities Development Division

California's Building Department for Hospitals

STRUCTURAL SERVICES SECTION UPDATE

Roy Lobo, Ph.D., S.E.
Principal Structural Engineer



Seismic Compliance Unit Update

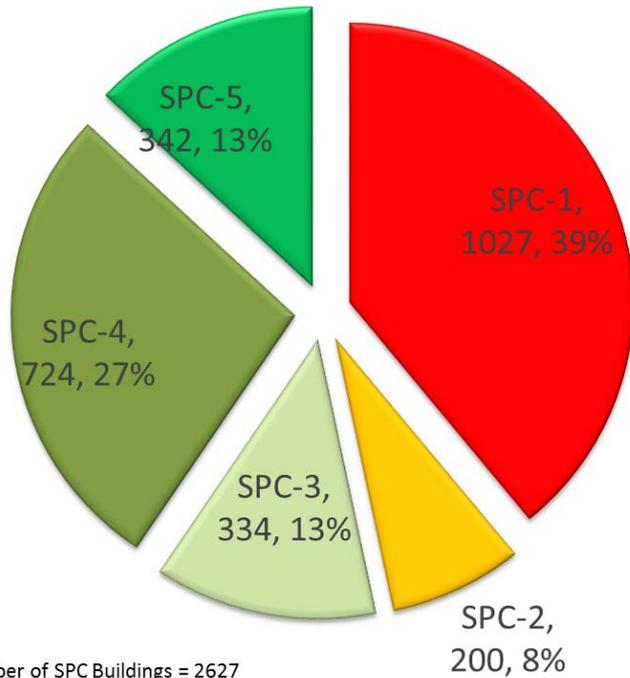
Hussain Bhatia, Ph.D., S.E.

Supervisor: Seismic Compliance Unit

Structural Performance Categories

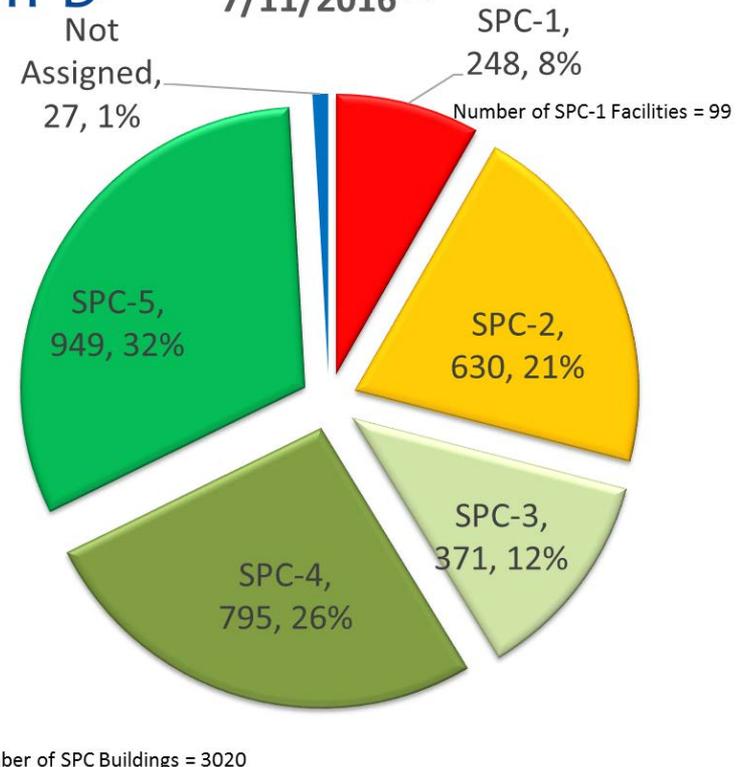
OSHPD

2001*



OSHPD

7/11/2016**

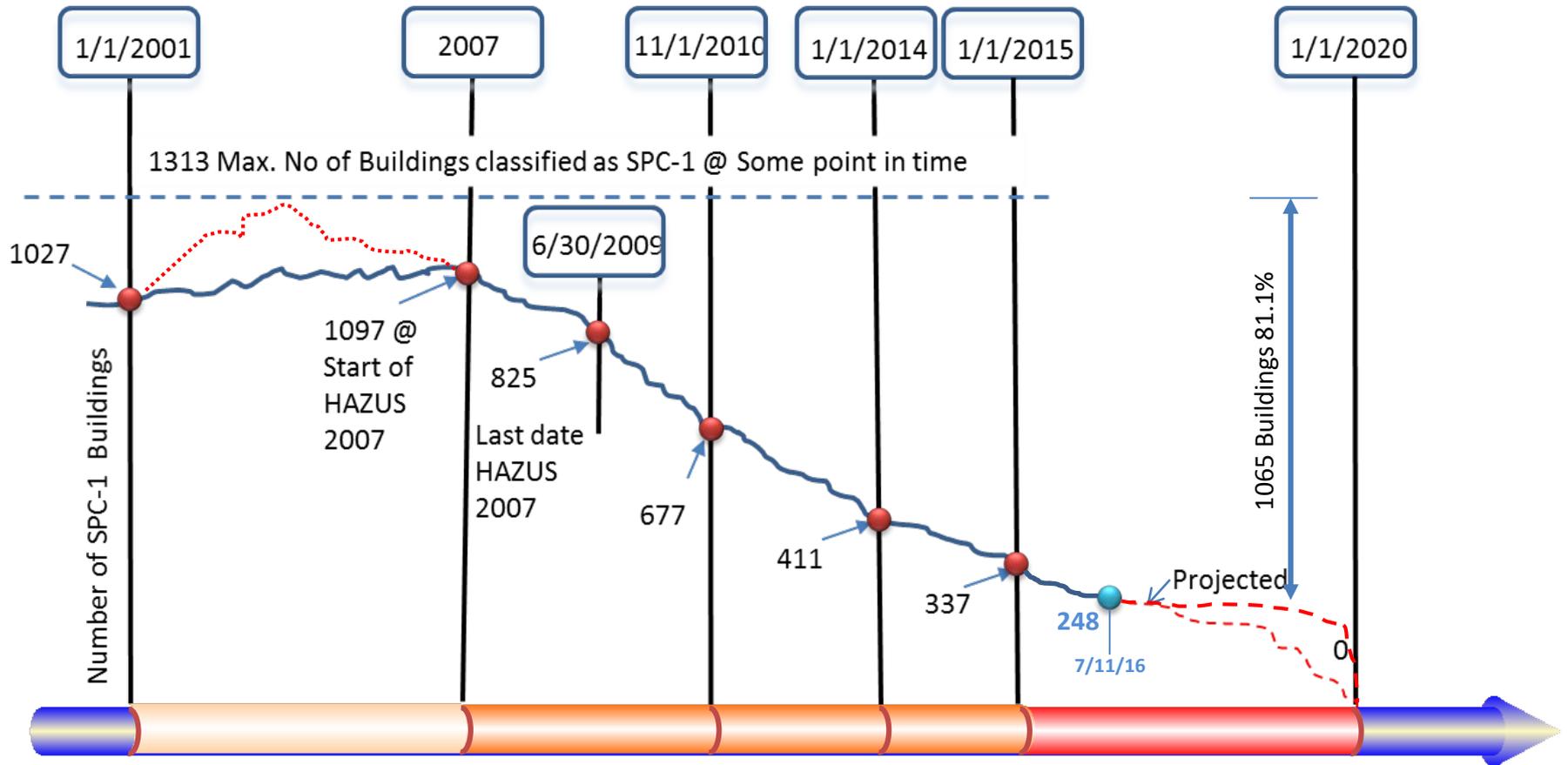


* Based on 2001 Hospital Survey Results based on hospital "self-report" and then "state-of-the-art" FEMA 178 standards from 1996

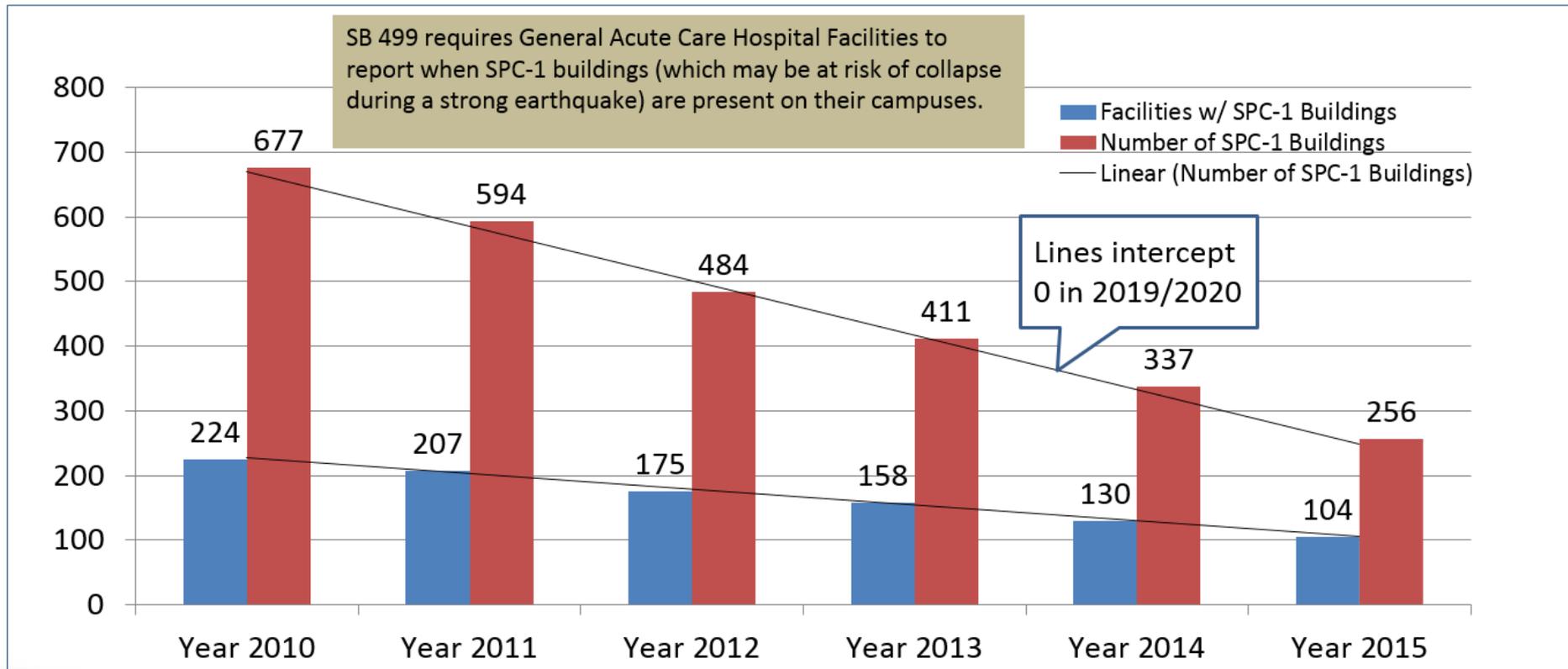
** SPC-5 includes buildings currently under construction

For SPC - "Not Assigned" is for non-building structures such as equipment yards, cooling towers etc that are still under construction

Hospital Seismic Compliance to Date



Facilities with SPC-1 Buildings Reporting per SB 499



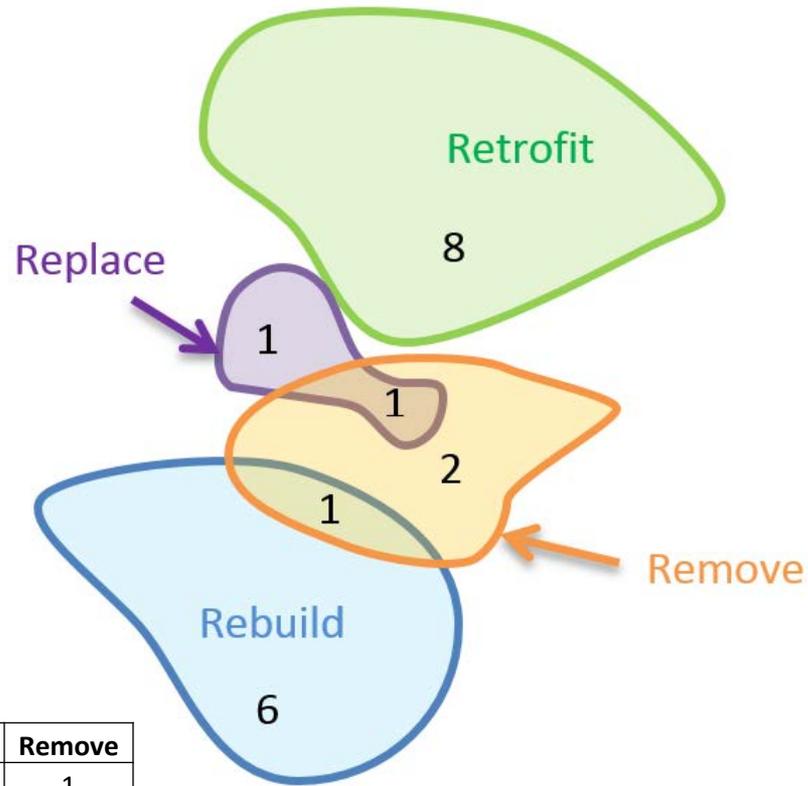
Preliminary 2015 SB 499 Hospital's Reports Summary

This preliminary summary is based on data reported by the hospitals to OSHPD as required by the SB 499 reports due on November 1, 2015. The information and data used to generate this summary are subject to change without notice.

Compliance Timeline	Number of Hospitals	Number of SPC-1 Buildings
By January 1, 2016	19	57
Between January 1, 2016 to January 1, 2017	10	20
Between January 1, 2017 to January 1, 2018	13	25
Between January 1, 2018 to January 1, 2020	62	154

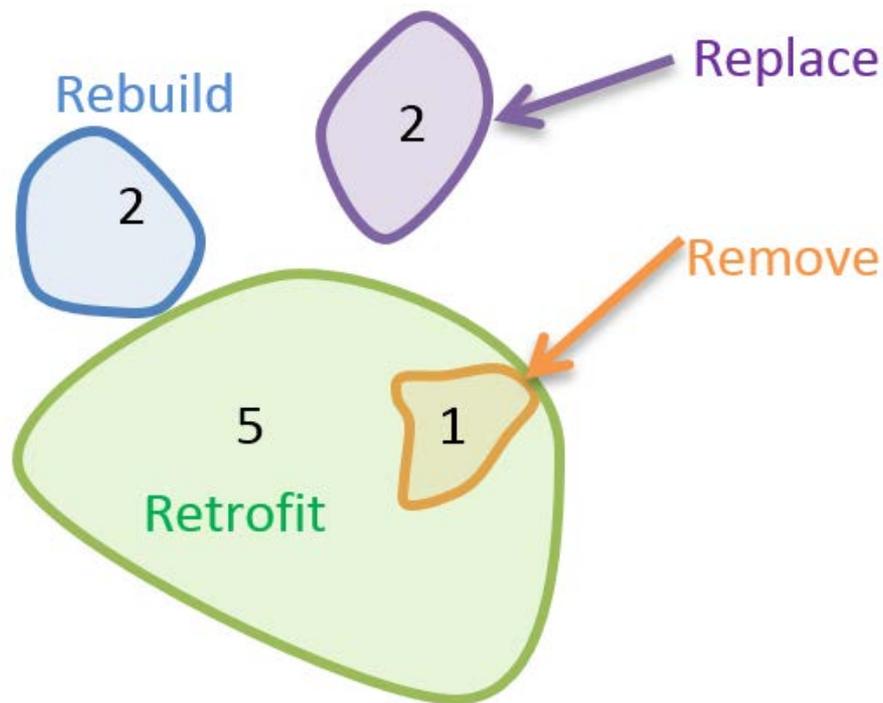
- The compliance timeline for SPC-1 buildings is self-reported by the hospitals and does not automatically make a hospital eligible for an extension to the compliance date reported.
- To be eligible for an extension, a hospital must meet the initial eligibility criteria and maintain its eligibility by complying with subsequent milestones and requirements.

Method of Compliance for Facilities as reported from SB 499 reports to comply by Jan 1, 2016; Total = 19



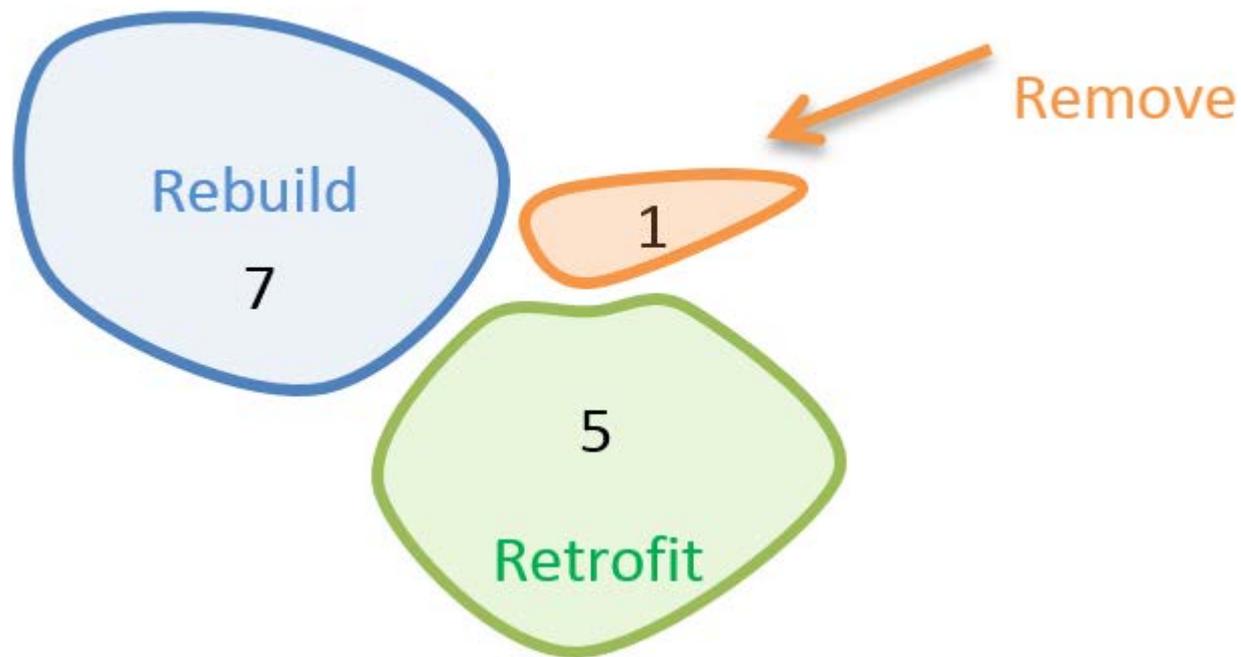
	Rebuild	Replace	Retrofit	Remove
Rebuild	7	0	0	1
Replace	0	2	0	1
Retrofit	0	0	8	0
Remove	1	1	0	4

Method of Compliance for Facilities as reported from SB 499 reports to comply between 2016 & 2017; Total = 10



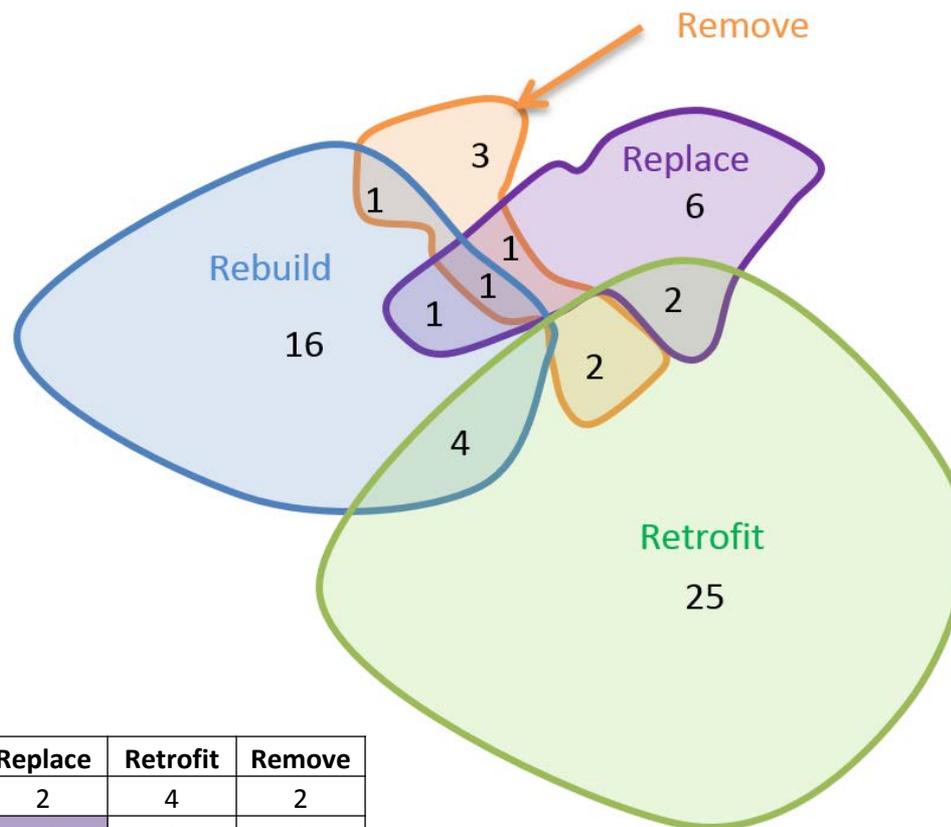
	Rebuild	Replace	Retrofit	Remove
Rebuild	2	0	0	0
Replace	0	2	0	0
Retrofit	0	0	6	1
Remove	0	0	1	1

Method of Compliance for Facilities as reported from SB 499 reports to comply between 2017 & 2018; Total = 13



	Rebuild	Replace	Retrofit	Remove
Rebuild	7	0	0	0
Replace	0	0	0	0
Retrofit	0	0	5	0
Remove	0	0	0	1

Method of Compliance for Facilities as reported from SB 499 reports to comply between 2018 & 2020; Total = 62



	Rebuild	Replace	Retrofit	Remove
Rebuild	23	2	4	2
Replace	2	11	2	2
Retrofit	4	2	33	2
Remove	2	2	2	8

Building Resolution from SB 499 Reports

Building Resolution from SB 499 Reports

SB 499 report Method of Compliance	No. of SPC-1 Buildings, (All Buildings)				
	SB 499 Anticipated Completion Dates				
	2016	2017	2018	2020	Total
Rebuild	37	5	16	59	117
Replace	4	4	0	18	26
Retrofit	10	10	7	56	83
Remove	6	1	2	21	30
Total	57	20	25	154	256

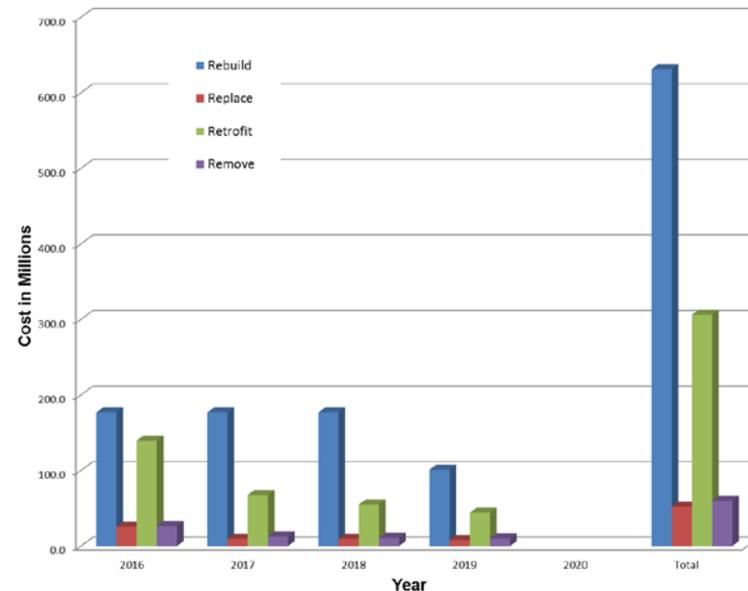
SB 499 report Method of Compliance	Facilities w/SPC-1 Buildings (All Buildings)				
	SB 499 Anticipated Completion Dates				
	2016	2017	2018	2020	Total
Rebuild	8	2	8	23	41
Replace	2	2	0	11	15
Retrofit	8	7	5	33	53
Remove	4	1	2	8	15
Total	22	12	15	75	124

Summary Forecasting New Construction (SB 499 Data)

Construction in Millions of Dollars

	2016	2017	2018	2019	Total
Rebuild	176.8	176.8	176.8	100.9	631
Replace	25.3	9.3	9.3	8.0	52
Retrofit	139.5	67.5	54.9	44.1	306
Remove	26.7	12.7	10.7	10.0	60
Totals	368	266	252	163	1049

Projected Construction Cost in Millions (SB 499 Data)



SPC -1 Buildings = 248

SPC-1 Buildings with Approved SB 90 Extensions	177
SPC-1 Buildings with only SB 1661/AB2557/SB81 Extensions	26
SPC-1 Buildings with only SB 306 Extensions	26
SPC-1 Buildings with only SB 499 Extensions	1
SPC-1 Buildings that currently have an extension	230
SPC-1 Buildings that do not have any extension beyond 2013*	18
Total	248

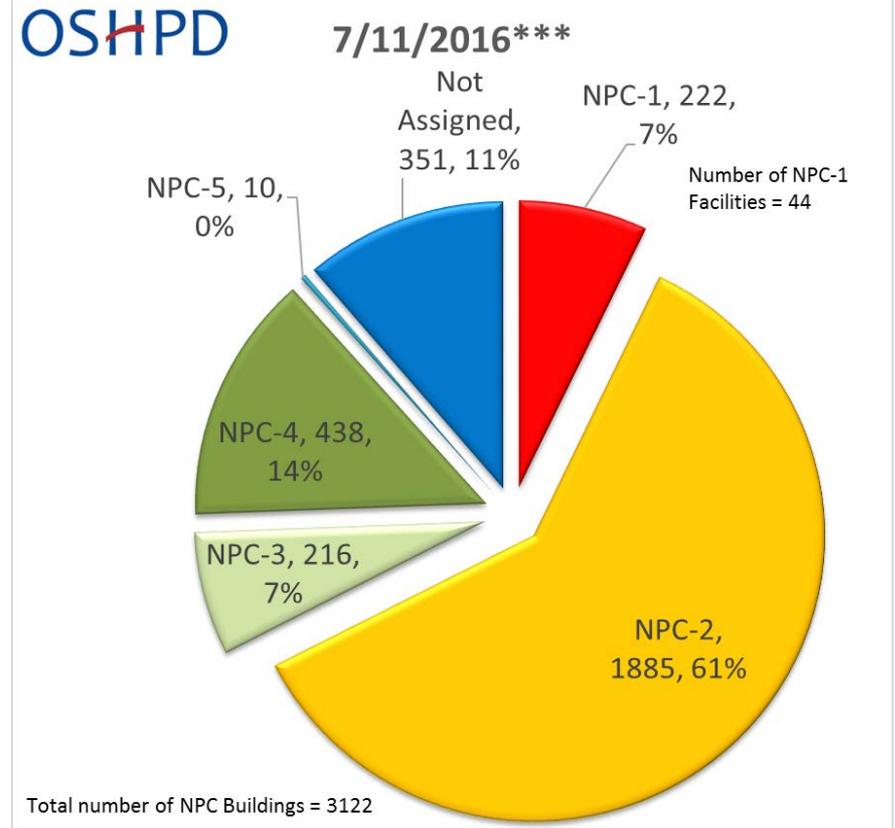
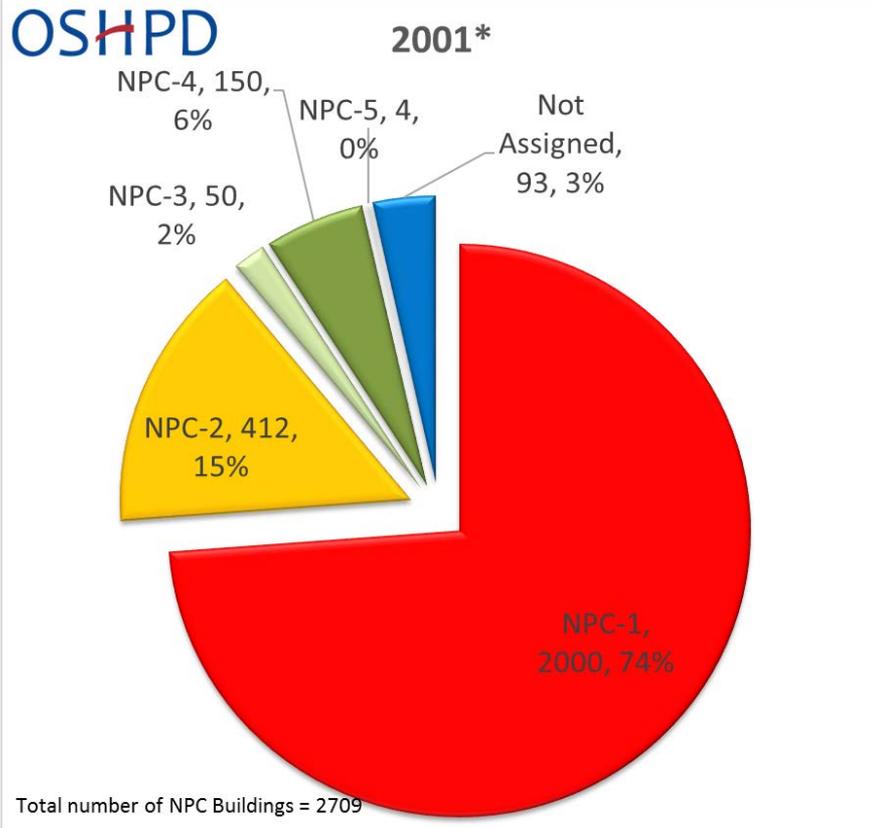
*No acute care services – some of these building have removal-of-acute-care-services projects – all have been sent a letter urging removing building from inventory.

SPC-1 Buildings with Expired Extensions

SPC-1 Buildings with expired SB 90 Extensions	6
SPC-1 Buildings with expired SB 1661 Extensions	26
SPC-1 Buildings with expired SB 499 Extensions	1
SPC-1 Buildings that have expired extensions	36
SPC-1 Buildings with expired extensions that have occupancy/construction final	- 35
Remaining*	1

* Has project in OSHPD/FDD for removal-of-acute-care-services from this building.

Nonstructural Performance Categories



***Includes buildings under construction, tunnels and equipment yards
 For NPC - "Not Assigned" are for buildings and nonbuilding structures either under construction or where the nonstructural performance category has not been verified

SPC-4D

- Added SPC-4D page to OSHPD website with:
 - Final Express terms
 - Detailed Flowchart
 - Guidelines for submitting prior to 1/1/2017
 - MTCAP Comments and Process
- 29 meetings (not counting repeats) to date.
- So far 8 projects submitted for SPC-4D upgrade and 11 for comprehensive data collection programs.
- 1 building retrofit concept to SPC-4D accepted by Seismic Compliance Unit.

The screenshot shows the OSHPD website page for SPC-4D Regulations. The page header includes the CA.GOV logo, the State of California Office of Statewide Health Planning & Development, and navigation links for HOME, PROGRAMS, DATA, SERVICES, PUBLICATIONS, LAWS & REGULATIONS, and PRESS. The breadcrumb trail is Home > FDD > seismic compliance > SB1953 > SPC-4D Regulations. The main heading is "Seismic Compliance Program". Below this, the "SPC-4D Regulations" section explains that SPC-4D is a new Structural Performance Category that will be part of the 2016 California Building Standards Code, allowing noncompliant buildings to meet the 2030 seismic compliance deadline. A diagram illustrates the timeline of seismic compliance, showing SPC-2 (PRE 1973), SPC-4 (1973-1989), and SPC-5 (1989). A vertical line marks the "Seismic Compliance Deadline" at 2030. A dashed arrow labeled "Proposed" points from SPC-4 to SPC-5, and a solid arrow labeled "Exist. Requirements" points from SPC-4 to SPC-5. Below the diagram, text states that the version of the SPC-4D regulations approved by the California Building Standards Commission in their December 16-17, 2015 Commission Meeting can be obtained at:

- Final Express Terms for Part 1 Title 24
- Final Express Terms for Part 2 Title 24

These regulations have an effective date of 1/1/2017. The SPC-4D upgrade requires submittal of multiple projects to the Seismic Compliance Unit and the Building Safety Section of FDD. A link is provided to "See the detailed flowchart of the submittal process." A section titled "GUIDELINES FOR SUBMITTING SPC-4D PROJECTS PRIOR TO JANUARY 1, 2017" provides instructions for submitting projects prior to the 2016 California Building Standards Code anticipated effective date, mentioning an "Alternate Method of Compliance form (OSH-FD-126)" and suggested language for the form. The "Description of Proposal:" section includes the following requirement:

1. Design, Construction, Quality Control / Quality Assurance shall be in accordance

Structural Support Unit Update

Mohammad Karim, Ph.D., S.E.

Supervisor: Structural Support Unit

Regulations

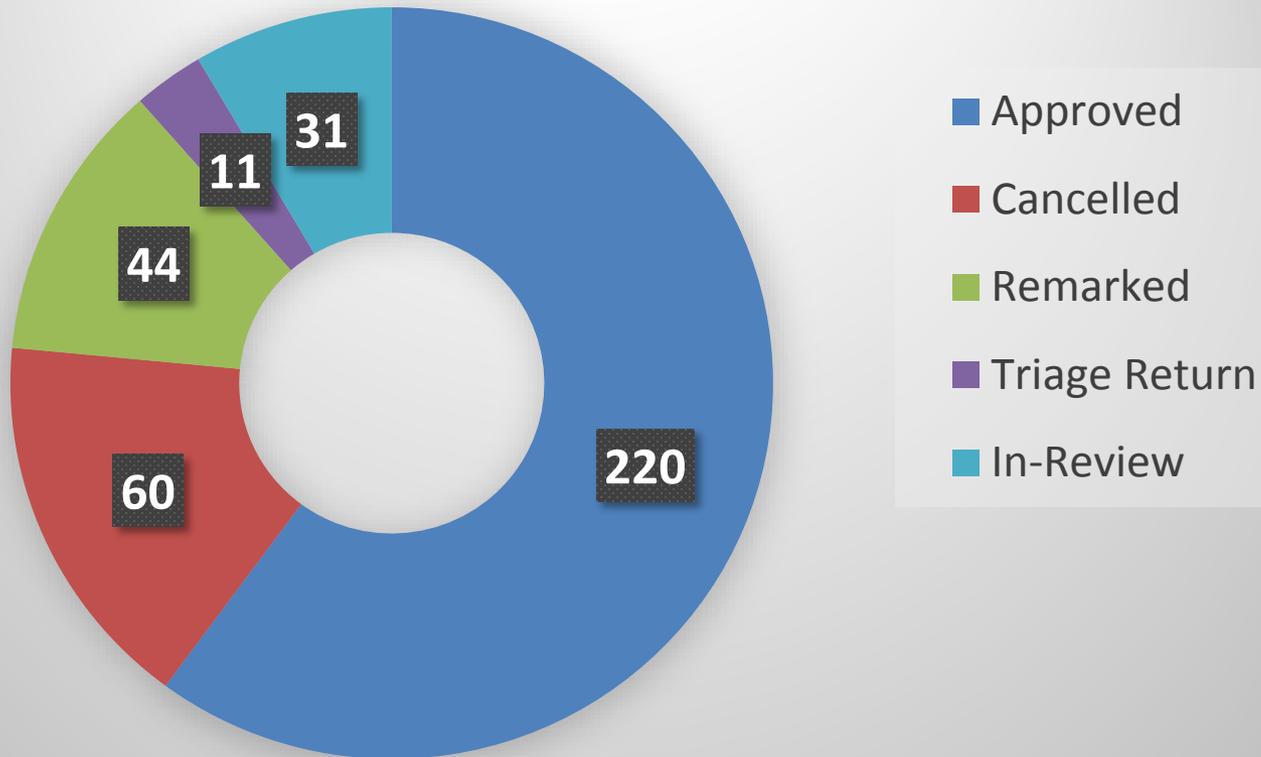
- California Building Standards Code, 2016 (CBSC 2016) is published:
 - Adopted changes in the International Building Code, 2015 (IBC 2015) to keep the building code up to date with national codes and standards.
 - New Structural Performance Category-4D (SPC -4D) created to reduce cost of seismic compliance and ensure availability of hospitals in rural & medically underserved areas.
 - **CBSC 2016 will be effective on January 1, 2017.**

Policy Intent Notices – Updates 2016

- Revised **PIN 55**: OSHPD Special Seismic Certification Preapproval (OSP) for consistency with the CBSC 2016.
- Revised **PIN 58**: OSHPD Preapproved Agency (OPAA) for Structural Tests and Special Inspections to create new OPAA program to replace OSHPD Preapproved Laboratory (OPL) Program.
- New **PIN 62**: OSHPD Preapproval of Manufacturer's Certification (OPM) to formalize existing OSHPD policy for OPM program.

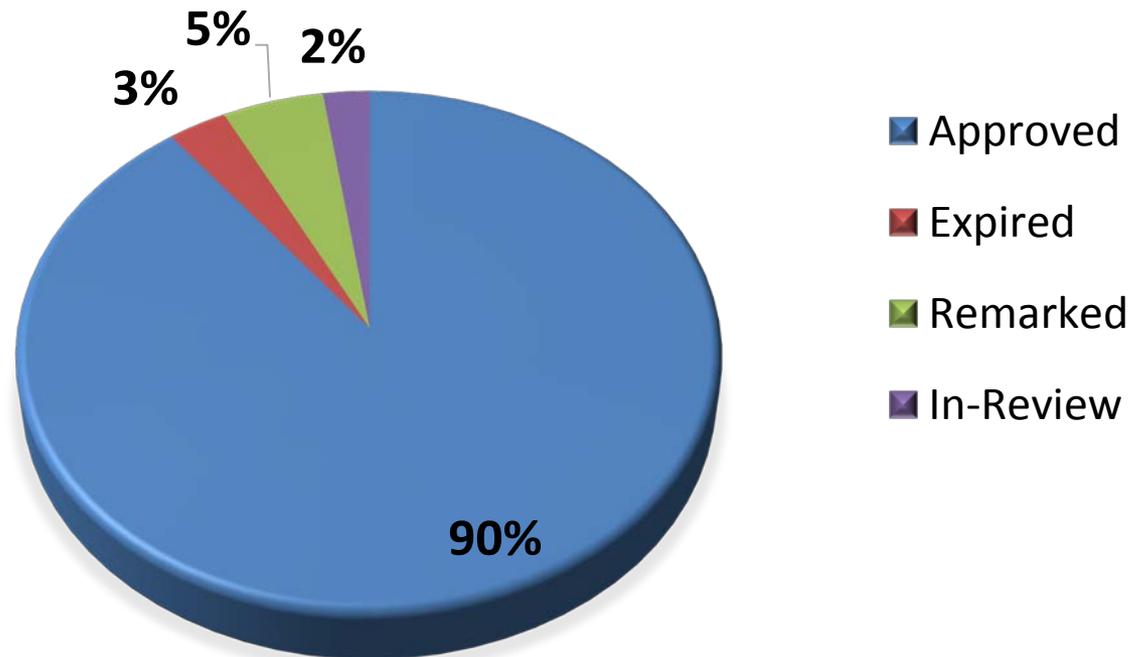
OSHPD Preapproval of Manufacturer's Certification (OPM)

Overall OPM Review Status



OSHPD Special Seismic Certification Preapproval (OSP)

OVERALL OSP REVIEW STATUS



NUMBER OF OSP'S APPROVED=457

