

ATC-23, Part B
**GENERAL ACUTE CARE HOSPITAL EARTHQUAKE
SURVIVABILITY INVENTORY FOR CALIFORNIA:**
RAW DATA

by

APPLIED TECHNOLOGY COUNCIL
555 Twin Dolphin Drive, Suite 270
Redwood City, California 94065

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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT (OSHPD)
1600 9th Street, Room 410
Sacramento, California

MANAGEMENT COMMITTEE

Christopher Rojahn, Chairman
Neal Hardman, OSHPD Project Officer
William T. Holmes, ATC Board Contact
Robert Kimball, Project Director
John MacLeod, OSHPD

COMPUTER CONSULTANTS

Tactix Computer Services
Leon Stein
Patty Wong-Christofferson

SURVEYORS

Don Jephcott, Chief Surveyor
Norval Beattie
Robert Bentson
Clifford Chaffin
Ruth Gordon
Chester Kuczek
John Meehan
William Pattillos
Irwin Salin
Leon Stein
Don Westbrook

Preface

In July 1987 Applied Technology Council was awarded a contract by the California Office of Statewide Health Planning and Development (OSHPD) to complete the "General Acute Care Hospital Earthquake Survivability Inventory", which was started in 1979. The purpose of the inventory was to provide OSHPD and other state agencies, such as the Seismic Safety Commission, with a means to assess the survivability of these hospitals should earthquake-induced high-intensity ground motions, geo-technical failures, or failure of utility services occur.

In the first phase of this program (Phase I), conducted by the Office of the State Architect and completed in October 1982, hospitals in Kern, Riverside, San Bernardino, Los Angeles, Ventura, and Santa Barbara counties were assessed. These data are reported in "Earthquake Survivability Potential for General Acute Care Hospitals in the Southern California Uplift Area" (OSA, 1982).

In the second and third phases, conducted by Applied Technology Council and reported on herein, 290 hospitals in the remaining 51 California counties were assessed (Phase II) and the originally collected Phase I data were updated (Phase III). The Phase III update effort involved 200 hospitals, bringing the total number of California hospitals included in the survey to 490.

The raw general site and building data for the 490 hospitals surveyed under Phases II and III are tabulated herein in Part B of this report. A description of the Phase II survey

and Phase III update effort and a summary of the combined results of Phases II and III are documented in Part A, a separate companion report. Also included in Part A is an illustrative discussion of data analysis and interpretation that has been provided to demonstrate potential applications of the ATC-23 database.

Applied Technology Council gratefully acknowledges the individuals who collected the data and developed the project relational database. These include Robert C. Kimball (Project Director), Donald K. Jephcott (Chief Surveyor), William T. Holmes (Member, Management Committee, and ATC Board Contact), Jack Lakes (Primary Computer Consultant), Leon Stein (Computer Consultant who provided the original Phase I database), Patty Wong-Christofferson (Data Entry Consultant), and the following surveyors, all of whom are experienced Structural Engineers and former employees of the Office of the State Architect: Norval Beattie, Robert Bentson, Clifford Chaffin, Ruth Gordon, Chester Kuczek, John Meehan, William Pattillos, Irwin Salin, Leon Stein, and Don Westbrook. The affiliations and addresses of these individuals are provided in Appendix B.

The insight, patience, and significant contributions of Neal Hardman (OSHPD Project Officer) and John MacLeod (OSHPD) are also gratefully acknowledged.

Christopher Rojahn
Executive Director

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