EARTHQUAKE INVESTIGATION COMMITTEE
LOS ANGELES EARTHQUAKE OF FEBRUARY 9, 1971

REPORT OUTLINE

I. Introduction

EERI/NOAA Earthquake Investigating Committee

II. Seismology

Historical background.
The event and aftershocks.
Distribution of intensities.
Analysis of instrumental records.

III. Geology and Soils

Geology of area and fault movements.
Properties and distribution of soils types.
Foundation-structure interaction.
Surface movement of soils.
Geodetic Studies.

IV. Buildings (C. W. Pinkham)

Structural analysis and correlation with damage to earthquake resistive construction - (Jim Kessler)

Olive View County Hospital - (SEAOSC Team - W. T. Wheeler, Chairman)
Pacoima Memorial Lutheran Hospital
Holy Cross Hospital - (S. B. Barnes, Investigation)
Indian Hills Medical Center (Adjacent to Holy Cross)
L. A. County Juvenile Facility - Sylmar
IV. Buildings (Continued)

Veterans Hospital - (newer buildings)
Union Bank - (San Diego and Ventura Freeway - Al Erkel)
Lincoln Savings - (Workman and Ventura Freeway)
Riverside-Coldwater Medical Center
North Hollywood Federal Savings - (10850 Riverside Drive)
Sheraton-Universal
Other high rise, non instrumented (10-15)
Low Rise Commercial and Manufacturing (20-30)
  Soledad Canyon Shopping Center (3)
  San Fernando Industrial Tract - (Vic. Foothill and Arroyo Street) (10)
  Industrial Tract - (Vic. San Fernando Road and Blodsoe) (8)

Schools (10-20) New and rehabilitated.

Structural Analysis for Correlation with Instrumental Analysis and damage. Dynamic Analysis. Steel and concrete frames. (Paul Rogers)

Holiday Inn - (8244 Orion, Los Angeles)
High Rise - (5-10)
(Possible study funding by AISI and PCA)

Other Buildings (Walt Brugger)

Single Family Residences and Apartments, Detailed Analysis.
Specific Cases (20)
Statistical block by block study.

Old Buildings not earthquake resistive.
Veterans Hospital - old buildings.
Statistical study - distribution of damage.
Behavior of buildings with parapet corrections.
V. Water Supply Systems (continued)

Sewers and Treatment Plants

VI. Transportation Systems

Highways - Slides, cracking and movement

Bridges - Freeway Collapses

Other Bridges

Railways

S. P. Line

Others

Tunnels ?

Airports

L. A. International

Hollywood - Burbank

Van Nuys

Shipping facilities

Harbor and waterfront structures

VII. Energy and Communication Systems

Electrical

Generating Facilities

San Fernando Power House

Valley Steam Plant

Transmission Lines

Department of Water and Power tower damage

Terminals

Pacific Intertie - Sylmar, Department of Water and Power

Olive Switching Station - Department of Water and Power

Distribution Stations

Department of Water and Power (3)
VII. Energy and Communication Systems (continued)

Distribution Systems

Pole transformer damage

Oil Production

Gas

Transmission Lines

Pumping Plants

Storage Facilities

Distribution Systems

Telephone

Microwave Stations

Buildings

Radio and T. V. Stations

VIII. Sociological Aspects

Emergency Measures

Building Departments

Police Departments

Fire Departments

Loss of life and injuries

Economic losses

Damage

Loss of income

Insurance

Employment

IX. Findings, Conclusions and Recommendations

EERI/NOAA Committee

X. Appendices

Isoseismol Map

Ground Breakage and Faulting
Old Buildings not earthquake resistive, (continued)

Rehabilitated buildings.

Corrective repairs to buildings (10 cases)

Building Equipment and Contents (J. M. Ayers)

Olive View Power Plant and others

Markets

Residential

Manufacturing

Sprinkler Systems

Elevators

Note: Additional specific buildings to be filled in as lists become available from SEAOSC committee and local building department files.

Water Supply Systems (Including Dams)

Dams

Van Norman Reservoir (2)

Pacoima Dam

Castaic Dam

Tujunga Dam

Bouquet Dam

Transmission Systems

L. A. Aqueduct - Owens Valley

M. W. D.

California Aqueduct

Wells

Tanks

Distribution Systems

Storm Drains