ATC-20-2

Addendum to the ATC-20 Postearthquake Building Safety Evaluation Procedures

by

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Preface

Approximately one month prior to the damaging 1989 Loma Prieta, California, earthquake the Applied Technology Council (ATC) published the ATC-20 report, Procedures for Postearthquake Safety Evaluation of Buildings, and the companion ATC-20-1 report, Field Manual: Procedures for Postearthquake Safety Evaluation of Buildings. The ATC-20 documents were widely used in the Loma Prieta earthquake recovery efforts, providing an opportunity to evaluate their effectiveness.

In response to this opportunity, the National Science Foundation (NSF) awarded a grant to ATC in 1990 to review the implementation of the ATC-20 procedures and to develop an addendum that would provide revisions to the original ATC-20 procedures, as well as any needed supplementary information. This ATC-20-2 document is the result of that effort. During the preparation of the document, further earthquakes occurred in California, including the damaging Northridge earthquake of January 1994. The recovery experience following these earthquakes further added to the present document’s knowledge base.

ATC Technical Director Robert Bruce served as Principal Investigator and Project Director. He was assisted in the preparation of the document by several subcontractors who provided material for various chapters: James Russell (Chapter 3, Appendix A), Patricia Weis-Taylor (Chapter 5), James Stratta (Chapters 3, 4, and 6) and Patricia Bolton (Chapter 7). The Project Engineering Panel (PEP) provided overall project guidance. PEP members were David Bonneville, Richard Eisner (ex-officio), David Hammond, Neil Hardman (ex-officio), Fred Herman, William King, Larry Litchfield, David Messinger, Sherry Oaks, Richard Ranous, and Arthur Ross (ATC Board Representative). Patty Christofferson, Peter Mork, Nancy Sauer, and Rodney Sauer provided publication and editorial assistance. The affiliations and addresses of these individuals are provided in the list of Project Participants.

ATC acknowledges the other individuals who provided valuable assistance during the preparation of this report: Susan Dowty of the International Conference of Building Officials coordinated related documents; William King of the City of Los Angeles and Barbara White of Sacramento County arranged interviews with Loma Prieta earthquake mutual aid safety evaluation inspectors from their jurisdictions; and Tom Wangerin of the University of California at Berkeley Program in Environmental Hazard Management and Paul Deis of the California Specialized Training Institute reviewed Chapter 5.

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Christopher Rojahn
ATC Executive Director
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