

## Management Team Selected to Lead Phase II Steel Project

The SAC Phase II Steel Project, a three-year, \$8.6 million effort funded by the Federal Emergency Management Agency, began September 29, 1995. It follows the SAC Phase I effort, a one-year project that accomplished a variety of analysis and testing topical investigations and which produced Interim Guidelines. The FEMA Program to Reduce the Earthquake Hazards of Steel Moment Frame Structures is devoted to producing solutions to the urgent problems unexpectedly posed by the brittle fractures of welded steel moment frames in the 1994 Northridge Earthquake.

### FEMA Management

The FEMA Project Officer is Michael Mahoney. Robert Hanson serves as FEMA's Technical Advisor.

### JV Management Committee

The Joint Venture Management Committee, made up of two representatives from each of the three SAC joint venture partners, is chaired by William T. Holmes of Rutherford & Chekene, Structural Engineers Association of California representative; the other SEAOC representative is Art Ross of Arthur E. Ross, Inc. The Applied Technology Council is represented by Christopher Rojahn, ATC Executive Director, and Edwin T. Huston of Smith & Huston, Past ATC President. The two representatives of California Universities for Research in Earthquake Engineering are Geoffrey Martin of USC and Robin Shepherd of Earthquake Damage Analysis Corp.

### Phase I Managers on Board for Phase II

The same technical leadership core that guided Phase I has been retained by the SAC Joint Venture to guide the current Phase II three-year project to completion: Stephen A. Mahin of UC Berkeley - Project Manager; Ronald O. Hamburger, EQE International - Project Director for Product Development; James O. Malley, Degenkolb Engineers - Project Director for Topical Investigations.

### Project Oversight Committee

A distinguished panel of individuals representing a broad range of backgrounds will advise FEMA and the project team. Chaired by William J. Hall of the University of Illinois, the POC members are: John M. Barsom, US Steel; Susan Dowty, ICBO; Roger Ferch, Herrick Corp.; Theodore V. Galambos, University of Minnesota; John L. Gross, NIST; James R. Harris, J.R. Harris & Co.; Richard Holguin, Los Angeles Dept. of Building and Safety; Nestor Iwankiw, AISC; Roy G. Johnston, Brandow & Johnston; S.C. Liu, NSF; Duane Miller, Lincoln Electric; John Theiss, EQE/Theiss; Charles Thornton, Thornton-Tomassetti Engineers.

### Team Leaders to Coordinate Tasks

The project manager and project directors for topical investigations and for product development will be assisted by a group of Team Leaders and Lead Guidelines Writers. All of the consultants and subcontractors who will be retained to carry out specific tasks will be assigned to a team, to ensure that information flows efficiently within a team and also among teams.

#### Topical Investigation Team Leaders

Doug Foutch, U. of Illinois - *Performance Prediction/Evaluation*  
Karl Frank, U. of Texas, Austin - *Materials and Fracture*  
Helmut Krawinkler, Stanford University - *System Performance*  
Charles Roeder, U. of Washington - *Connection Performance*  
Tom Tobin, Consultant - *Economic, Social, Political Aspects*

#### Lead Guidelines Writers

John Hooper, RSP/EQE - *Pre-Earthquake Inspection and Evaluation*  
Jeffrey Post, J. W. Post Associates - *In-Process Inspection*  
Lawrence Reaveley, U. of Utah - *Post-Earthquake Inspection and Evaluation*  
Thomas Sabol, Englekirk & Sabol - *Upgrade and Rehabilitation*  
C. Mark Saunders, Rutherford & Chekene - *New Construction*  
Raymond H.R. Tide, Wiss, Janney, Elstner - *Repair*

## RFQ Process Still Underway

The Initial Request for Qualifications from SAC for Phase II Consultants and Subcontractors has generated a large number of Statements of Qualification submittals. Initial selections are being made and will be announced as they occur. Additional selections will be made throughout the project. For a copy of the RFQ, contact the SAC Steel Project Technical Office.

### Interim Guidelines Available

*Interim Guidelines: Evaluation, Repair, Modification and Design of Welded Steel Moment Frame Structures* was produced by the SAC Phase I project. Until superseded by SAC Design Advisories, which may be issued during the project, or by the final guidelines to be produced by SAC near the end of Phase II, the Interim Guidelines serve as the industry standard for seismic design of steel moment frames.

To obtain a free copy from FEMA, ask for  
"FEMA 267, Interim Guidelines"  
1-800-480-2520

#### SAC Steel Project Technical Office

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Richmond, CA 94804-4698  
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fax: 510-231-5664

SAC is a joint venture of three non-profit organizations: The Structural Engineers Association of California, the Applied Technology Council, and California Universities for Research in Earthquake Engineering.



### Available Publications

The following publication is available free. Contact FEMA at 800-480-2520.

*Interim Guidelines: Evaluation, Repair, Modification and Design of Welded Steel Moment Frame Structures* (FEMA 267, SAC 95-01, August 1995).

These SAC reports are now available at cost. Contact the Applied Technology Council, 415-595-1542, for ordering information.

- SAC 95-03      *Characterization of Ground Motions During the Northridge Earthquake of January 17, 1994.* P. Somerville, R. Graves, and C. Saikia
- SAC 95-04      *Analytical and Field Investigations of Buildings Affected by the Northridge Earthquake of January 17, 1994, Part I and Part II.* Contributions by A. Alali, J. Anderson, J. Beck, K. Benuska, D. Bonowitz, R. DiJulio, J. Dunlea, T. Eimani, M. Englehardt, F. Filippou, G. Hart, L. Ho, S. Huang, A. Husain, A. Jain, J. Kariotis, H. Kim, K. Kim, H. Krawinkler, C. Lee, C. Li, R. Lobo, B. May, F. Naeim, T. Paret, D. Polidori, A. Reinhorn, T. Sabol, A. Sadre, K. Sasaki, J. Stewart, C. Thiel, C. Uang, J. Uzarski, M. Vanik, M. Van Winkler, N. Youssef, and Q. Yu.
- SAC 95-05      *Parametric Analytical Investigations of Ground Motion and Structural Response, Northridge Earthquake of January 17, 1994.* Contributions by S. Campbell, M. Englehardt, J. Hall, G. Hart, L. Ho, S. Huang, A. Husain, W. Iwan, H. Kim, K. Kim, R. Lobo, T. Sabol, M. Skokan, J. Uzarski
- SAC 95-06      *Surveys and Assessment of Damage to Buildings Affected by the Northridge Earthquake of January 17, 1994.* Contributions by D. Bonowitz, M. Durkin, W. Gates, M. Morden, N. Youssef

### Mailing List

SAC Update  
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If you would like to be added to the SAC Steel Project mailing list to receive future *Updates* and notification of other reports as they become available, please mail or fax us the form below. (You are already on the list if this *Update* was mailed to you. If there is an error in your mailing label, please correct it below.)

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