

**RESOLUTIONS OF THE FORTY-FOURTH JOINT MEETING  
U.S.-JAPAN PANEL ON WIND AND SEISMIC EFFECTS (UJNR)**

National Institute of Standards and Technology, Gaithersburg, Maryland, USA  
20-21 February 2013

The following resolutions are hereby adopted:

1. The Forty-Fourth Joint Panel Meeting provided the forum to exchange valuable technical information that is beneficial to both countries. In particular, both sides delivered presentations on the design codes and standards development and resilience programs in each country. In view of the importance of cooperative programs on the subject of wind and seismic effects, the continuation of Joint Panel Meetings is considered important. Both sides agreed to follow the recommendations of the Panel's Third Five-Year Strategic Plan and emphasize identifying opportunities, primarily through its Task Committees, for sharing and developing technologies that lead to new design and construction practices, and for providing users with improved design and construction procedures.
2. The following activities have been conducted since the Forty-Third Joint Meeting:
  - a. Technology Exchanges. Technical experts and technical documents have been exchanged. These exchanges have contributed to the development of new research and enhanced ongoing research programs in both countries. In particular, the U.S.-side Panel members exchanged information with the Japan-side Panel members and supported them on the occasion of their investigation on the organizational arrangements for crisis management and crisis management technologies for natural disasters in the U.S.
  - b. Task Committee Workshops. The Panel held four workshops:
    - 1) Task Committee G, 27th U.S.-Japan Bridge Engineering Workshop, 7-9 November 2011, Tsukuba, Japan
    - 2) Task Committee D, Workshop on Structural Dynamics and Monitoring of Bridges and Flexible Structures against Wind Hazards, 14 November 2011, Boston, MA, U.S.
    - 3) Task Committee D, Workshop on Structural Dynamics and Monitoring of Bridges and Flexible Structures against Wind Hazards, 11-13 March 2012, Lubbock, TX, U.S.
    - 4) Task Committee G, 28th U.S.-Japan Bridge Engineering Workshop, 8-10 October 2012, Portland, OR, U.S.
  - c. Major Products. The Panel members produced or made significant contributions to advancing the Panel's mission:
    - 1) Task Committee C continued to conduct collaborative research on non-linear response analysis and discrete element method analysis of concrete dams.
    - 2) Japan side members of Task Committee H are participating with U.S. side Task Committee H members on the committee developing tsunami design

provisions for the ASCE 7 standard applicable to buildings and other structures.

- 3) A tornado simulator based on the design of Iowa State University Tornado Simulator was constructed at the Building Research Institute, Tsukuba, Japan, completed in 2011, under the supervision of Task Committee D member Dr. H. Kikitsu in collaboration with Task Committee D co-Chair Dr. P. Sarkar of ISU. The facility will be used to conduct research on tornado-induced wind loads at BRI.
- d. The Panel members contributed to various efforts following the 2011 Great East Japan Earthquake.
- 1) Task Committee G initiated joint research on tsunami effects on bridge performance.
  - 2) The Panel members of both sides discussed and exchanged information on tsunami effects on buildings in order to introduce tsunami loads into the building codes of both countries.
  - 3) The Panel members of both sides conducted a joint reconnaissance of damage due to the 2011 Great East Japan Earthquake from August 31 through September 2, 2011.
  - 4) Task Committee A members conducted joint research and published papers on data from buildings recorded during the 2011 Great East Japan Earthquake.
3. The Panel accepted the Task Committee reports presented during the Forty-Fourth Joint Panel Meeting. Each report included objectives, scope of work, accomplishments and future plans. Those reports are provided in a separate document.
4. The Panel conducted its Strategic Planning Session. Based on its Third Five-Year Strategic Plan, the Panel evaluated its accomplishments and Task Committees activities and made future recommendations. The following are the highlights.
- a. The Panel functions in an umbrella role over its Member Agencies and Task Committees to enable smooth operation of the Panel. The Task Committees serve as the driving force of the substantial Panel activities.
  - b. The Panel explores further opportunities to work with academic researchers and professional and standards organizations. For example, Task Committee C extended invitations to the U.S. Society on Dams and the Japan Commission on Large Dams, to actively participate as members of the Task Committee. Task Committee C has incorporated several new members from these professional organizations. Another example is that the American Society of Civil Engineers (ASCE) can potentially contribute to joint standards development activities in the two nations.
  - c. The Panel holds its Joint Meetings with the core members of the both sides such as the Chairmen and Secretaries-General.

- d. Joint Meetings may be held in conjunction with Task Committee meetings or workshops or other conferences.
  - e. The Panel continues to work toward streamlining its structure, encouraging and expanding the collaboration of researchers in both countries.
  - f. The results of the Panel's work should be widely disseminated to improve the quality of life globally. The Panel encourages greater use of e-mail, the Panel's eNewsletter, and the Panel's Web Site to share and disseminate data and information to Panel members and other researchers.
5. The Panel endorses the following proposed Task Committee Workshops during the coming year:
- a. Task Committee C, 5th U.S.-Japan Workshop on Advanced Research on Dams, August 2013, U.S.
  - b. Task Committee G, 29th U.S.-Japan Bridge Engineering Workshop, October 2013, Tsukuba, Japan

In the event that Task Committee co-chairs recommend conducting a joint meeting or workshop under the auspices of the UJNR Panel on Wind and Seismic Effects prior to the next annual meeting, that is not included in the above list, the Task Committee co-chairs will make a request to conduct the meeting through their respective Secretary-General for approval by the Joint Panel Chairmen.

- 6. The U.S. and Japan sides will plan, conduct, and share as appropriate, joint investigations following earthquake and wind disasters in the U.S., Japan and other countries.
- 7. The Forty-Fifth Joint Panel Meeting of the UJNR Panel on Wind and Seismic Effects will be organized as a core member meeting by the U.S.-side Panel, to be held in the U.S. in September or October 2013. The U.S.-side Secretariat will propose dates, meeting format, program, location, and itinerary with the concurrence of the Japan-side Panel.