**OVERVIEW OF DECISIONS AT DECEMBER 8-9, 2005, MEETING of the NIBS/MMC COMMITTEE TO TRANSLATE THE NIST WORLD TRADE CENTER INVESTIGATION RECOMMENDATIONS FOR THE MODEL BUILDING CODES**

| **Recommendation No. (topic)** | **NIBS/MMC Committee Conclusions/Actions as Determined at December 2005 Meeting** |
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| 1 (increased structural integrity – progressive collapse prevention) | ASCE 7 revision at least five years away. ICC Ad Hoc Committee on Terrorism Resistant Buildings (AHC-TRB) considering changes reflecting United Kingdom model and NIBS/MMC committee will review those proposals when available. |
| 2 (increased structural integrity – wind tunnel testing) | *IBC* change proposal to be developed to adopt new ASCE wind tunnel testing standard (Dr. Abboud). |
| 3 (increased structural integrity – limiting sway) | Not directly an *IBC* issue but rather an AISC, ACI, ASCE 7 issue. NIBS/MMC committee to write Mr. Rossberg and ASCE 7 chair encouraging that the issue be addressed in the near-term and that the committee be involved in that process. |
| 4 (enhanced fire endurance – construction classification and fire-resistance ratings) | ICC AHC-TRB supports performance approach regarding this matter and is considering changes. The NIBS/MMC committee will review those proposals when available. |
| 5 (enhanced fire endurance – fire-resistance testing) | NIBS/MMC committee will support efforts to change ASTM E119 and related Underwriters Laboratories (UL) and National Fire Protection Association (NFPA) standards. |
| 6 (enhanced fire endurance – sprayed-on fire-resistive materials) | ICC AHC-TRB considering changes and the NIBS/MMC committee will review those proposals when available. |
| 7 (enhanced fire endurance – structural frame approach to fire-resistance ratings) | ICC Code Technology Committee (CTC) considering changes and the NIBS/MMC committee will review those proposals when available. |
| 8 (new methods of fire resistant design – burnout without collapse performance objective) | ICC AHC-TRB supports performance approach regarding this matter and is considering changes. The NIBS/MMC committee will review those proposals when available. |
| 9 (new methods of fire resistant design – performance standards and code provisions) | The NIBS/MMC committee supports the performance-based design concept and will bring together various interests to identify gaps with respect to evaluation tools and to develop a detailed action plan (with estimated costs) for filling those gaps. |

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| 10 (new methods of fire resistant design – new fire-resistive coatings) | Not directly a code matter but NIBS/MMC committee will develop a plan for looking at new materials and facilitating their testing and use (Committee members Brice, Collins, Connolly, Jones, Wills). |
| 11 (new methods of fire resistant design – evaluation of advanced structural steel, reinforced and prestressed concrete, and other high-performance materials) | |
| 12 (improved active fire protection – active fire protection systems) | Although a relatively long range issue, the ICC AHC-TRB is considering a change to ensure that water supply is looped for very tall buildings. The NIBS/MMC committee will review proposal when available. |
| 13 (improved active fire protection – improved fire alarm and communication systems) | ICC CTC and AHC-TRB considering changes based on what is used in Montgomery County, Maryland. AHC-TRB also looking at electronics issues surrounding command/control systems. The NIBS/MMC committee will review proposals when available. |
| 14 (improved active fire protection – fire/emergency command and control systems) | ICC CTC and AHC-TRB considering changes based on what is used in Montgomery County, Maryland. AHC-TRB also looking at electronics issues surrounding command/control systems. The NIBS/MMC committee will review proposals when available. |
| 15 (improved active fire protection – information transmission and preservation) | ICC CTC and AHC-TRB considering changes based on what is used in Montgomery County, Maryland. AHC-TRB also looking at electronics issues surrounding command/control systems. The NIBS/MMC committee will review proposals when available. |
| 16 (improved building evacuation – public education/training) | NIBS/MMC Committee to develop a white paper to stimulate cooperation among all relevant interest groups. |
| 17 (improved building evacuation – full building evacuation) | ICC AHC-TRB considering development of changes and the NIBS/MMC committee will review proposals when available. Graphic example of how building core areas might be designed being prepared for committee (Mr. Galioto). |
| 18 (improved building evacuation – egress systems) | ICC AHC-TRB considering development of changes and the NIBS/MMC committee will review proposals when available. Graphic example of how building core areas might be designed being prepared for committee (Mr. Galioto). |

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| 19 (improved building evacuation – emergency information communication) | ICC CTC and AHC-TRB considering changes based on what is used in Montgomery County, Maryland. AHC-TRB also looking at electronics issues surrounding command/control systems. The NIBS/MMC committee will review proposals when available. |
| 20 (improved building evacuation – evaluation of innovative evacuation technologies) | ICC CTC expects to develop a proposal but requested assistance with the pressure issue. NIBS/MMC Committee members Connolly, Heilstedt, Hooper, Lew, and Smilowitz to research issue surrounding pressure ranges for shafts and stairways. |
| 21 (improved building response – structurally hardened elevators for responders/mobility impaired occupants) | Updated standard from ASME needed. Regarding current practice, code does not require that elevators NOT be used by occupants but fire service generally recalls elevators to lobby. Survey of fire community to determine whether they do or do not recall elevators to be conducted for committee (Mr. Adams) and information on elevator deaths in fires to be sought (Ms. McNabb). |
| 22 (improved building response – emergency communication systems) | ICC CTC and AHC-TRB considering changes based on what is used in Montgomery County, Maryland. AHC-TRB also looking at electronics issues surrounding command/control systems. The NIBS/MMC committee will review proposals when available. |
| 23 (improved building response – handling critical information to increase responders' situational awareness) | ICC CTC and AHC-TRB considering changes based on what is used in Montgomery County, Maryland. AHC-TRB also looking at electronics issues surrounding command/control systems. The NIBS/MMC committee will review proposals when available and will develop a position paper on the intelligence aspects of information delivery for very large scale events (Committee members Adams, Brice, Perry and staff). |
| 24 (improved building response – command and control for large-scale emergencies) | ICC CTC and AHC-TRB considering changes based on what is used in Montgomery County, Maryland. AHC-TRB also looking at electronics issues surrounding command/control systems (hardening/redundance). The NIBS/MMC committee will review proposals when available. |
| 25 (improved procedures and practices – improving safety in buildings not covered by codes) | Jurisdictional standards of practice issue. The potential for writing to the relevant groups developing model legislation for special authorities will be explored. |
| 26 (improved procedures and practices – enforcement of safety provisions by state and local jurisdictions) | What to do for new buildings must be decided before exploring existing building issues but ICC AHC-TRB plans to look at communications issues. Once Recommendation 9 research is complete, additional scenarios can be developed. |

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| 27 (improved procedures and practices – building code requirements to retain documents) | Beyond what the codes can cover. Problems exist because of ownership changes, determining what medium to use to save documentation, unreimbursable expense of maintaining information. AHC-TRB is giving some consideration to this issue and the committee will revisit it during later deliberations. |
| 28 (improved procedures and practices – clarification of role of "design professional in responsible charge") | Committee members Collins and Sealy will work with Mr. Bukowski on issue before next meeting. |
| 29 (education and training – engineers/architects/building regulatory and fire service personnel) | To be considered at next meeting. |
| 30 (education and training – computational fire dynamics and thermostructural analysis tools) | |