



Minutes of IRCC Meeting
16-19 October 2006
San Francisco, USA

Location: Sheraton Fisherman's Wharf, San Francisco, USA
Presidio 1 Meeting Room
Time: 8.30am – 5.30pm Monday 16 and 8.30am – 12.30pm Tuesday 17

Present

Mike Balch	ABCB, Australia	(MB)
Brian Meacham,	Arup, USA	(BM)
Lisbet Landfald	NOBTH, Norway	(LL) (representing Olav Berge)
Mike Stannard,	DBH, NZ	(MS)
Paul Stollard	SBSA, Scotland	(PS)
Tariq Nawaz	ODPM, UK	(TN)
Denis Bergeron,	NRC, Canada	(DB)
Ray Bizal	NFPA, USA	(RB) (representing Milosh Puchovsky)
Mamoru Kohno	NILIM, Japan	(MK) (representing Wataru Gojo)
Megumi Hata	MLIT, Japan/ABCB	(MH) (representing Okasaki Atsuo)
Rick Okawa	ICC, USA	(RO)
Lam Pham,	ABCB, Australia	(LP)
Rainer Mikulits	OIB, Austria	(RM)
John Traw	USA	(JT)

Apologies

David Smith,	CEBC, RICS, UK	(DS)
Milosh Puchovsky	NFPA, USA	(MP)
Olav Berge	NOBTH, Norway	(OB)
Wataru Gojo	NILIM, Japan	(WG)
Okasaki Atsuo	MLIT, Japan	(OA)
Dick Bukowski,	NIST, USA	(RB)
John Kay	DBH, NZ	(JK)

Guests

Cathy Taraschuk	NRC-IRC, Canada	(CT)
Suzanne Townsend	DBH, NZ	(ST)
Wayne Bretherton	WSP, UK,	(WB)
Huang ShiMin	CABR, China	(HS)
Armin Wolski	Arup, USA	(AW)

Agenda Item 1 Welcome, Opening Remarks

BM, as host, welcomed members and guests and outlined housekeeping matters and details of events for the week. MB, as Chair, welcomed all members and guests and thanked BM for

the huge effort he had made in organizing for this meeting, including the risk workshop, the PEER workshop and the visits to San Francisco and San Jose city building departments.

Agenda Item 2 Apologies

Apologies were received as detailed above.

Agenda Item 3 Record of IRCC Tromsø meeting

The minutes of the last meeting in Norway in May 2006 were agreed as a true and accurate record of the meeting with some minor corrections from Japan (Section 15.9) and approved to be posted on the website.

Agenda Item 4 Election of Officers

BM was nominated (PS/MS) to succeed MB as Chair commencing at the next meeting. This was agreed to unanimously. It was agreed that MB would retain the Chair until the commencement of the meeting in Beijing seeing he had commenced organization for this meeting and for which the ABCB would co-host.

The secretariat is to remain with MS and ABCB for website administration and posting (BM/DB).

Terms to last for three years.

Agenda Item 5 Actions from Norway meeting

ID	Action	Result
1	A working group (LP chair, JS, BM, GW, VS and liaison with JS) was set up to identify 4 to 6 issues from the Johan Lundin thesis to consider the feasibility of advancing some of the identified issues. Group members are to send points to LP for a discussion paper in San Francisco.	LP sent out questionnaire Agenda Item 8
2	BM to send outline of the workshop on risk within the next four weeks and members are to respond with issues that they would like covered.	Complete Risk workshop following meeting
3	TT sent out questionnaire prior to meeting. All member to respond to questionnaire and prepare a short paper on the relationship with their Standards bodies addressing issues such as the development and citation of Standards for regulation, costs for users, secondary and tertiary citation, etc.	TT sent out completed questionnaires for those who had done so. Agenda Item 9
4	Egress and access for people with disability to be considered further at San Francisco meeting.	Agenda Item 10
5	Place new Charter on website	Complete
6	TN asked all members to complete a questionnaire on improving the sustainability of existing buildings.	Complete
7	Participate in the SBSA research on fire safety in buildings over 60m	Complete
8	Country Updates for San Francisco meeting are to be limited to a maximum of 20 minutes. A short briefing should be sent to MS 2 -3 weeks prior to the meeting for distribution to members.	Agenda Item 7
9	Invitations are to be extended to six Asian countries to attend as	Completed

Two items from Tromsø. The BM write up of the Gold Coast Global Policy Summit on Sustainability had been forwarded to all members. It was agreed that these should be posted on the Website (**Action 1**).

JT advised that there is no web link to the ASTM research on slip resistance. The ASTM contact person is Dan Schultz. JT to enquire whether minutes of the F13 workgroup are available and advise. TN mentioned that there are European National Standards available as part of the ECPD. He is to advise members of the sources. (**Action 2**)

Agenda Item 6 Correspondence

Refer appendix. No items for discussion.

Agenda Item 7 Brief Country Updates

7.1 United States

a) NFPA.

- Preparations for changes to the 2009 editions of Uniform Fire Code, NFPA 1, Life Safety Code, NFPA 101, and Building Construction and Safety Code, NFPA 5000, have commenced. A significant number of proposals have been prompted by WTC and the NIST WTC recommendations.
- Hazardous Materials Code, NFPA 400
A proposed draft is currently available on NFPA's Web Site consolidating hazardous materials requirements. It provides fundamental safeguards for the storage, use, processing, handling, and on-site transportation of hazardous chemicals and materials as identified in the document scope.
- Emergency Action Plans
NFPA's High Rise Building Safety Advisory Committee (HRB-SAC) is proposing that owners of all high rise buildings develop, implement and maintain emergency action plans for better coordination and response by emergency responders and building occupants during all types of emergency situations. Guidance material is being developed.
- NIST WTC Recommendations
HRB-SAC has responded to each of the 30 NIST recommendations and has developed specific action items for NFPA technical committees to address during their upcoming code revision cycles. Seventeen NFPA Technical Committee projects will be affected by these action items. NFPA will continue to update the WTC Recommendations Status Table which is posted on NIST's web site as specific actions are taken.
- Leadership in Life Safety Design (LLSD) Concept
HRB-SAC has proposed the LLSD concept as an incentive based program by which building developers, owners and operators could voluntarily increase the level of safety for their buildings beyond that mandated by applicable building, fire and safety regulations. The proposed framework of LLSD uses the Fire Safety Evaluation System (FSES) in NFPA 101A, *Guide on Approaches to Life Safety*, and the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) program.
- High Rise Building Occupant Perceptions about Evacuation
NFPA's Fire Protection Research Foundation is undertaking a project to re-evaluate the public's perception and attitudes toward building safety and their likely behavior during emergency situations. There is a belief that perceptions about how occupants might respond to emergency situations in buildings has changed, largely in light of the events of 9-11, and that current assumptions about occupant behavior might no longer be valid.
- Integrating Risk Concepts in Codes and Standards Development

A new guidance document to be developed by NFPA's Fire Protection Research Foundation will focus on helping technical committees consider and integrate risk concepts into their decision making.

- All Hazards Approach to Life Safety and Homeland Security
NFPA has created a Homeland Security Resource Team to better identify responses to security and safety following 9-11 and Hurricane Katrina. It is developing a Primer for NFPA Technical Committees for an all hazards approach to life safety. It will include terrorist acts and other hostile acts involving chemical, biological, radiological, nuclear or explosive (CBRNE) materials, and also natural disasters such as floods, tornados, hurricanes, earthquakes, wildfires, and tsunamis. NFPA has also recently published the text, *Extreme Event Mitigation in Buildings*, as a resource on this subject.
- Emergency Evacuation Planning Guide for People with Disabilities
NFPA's Disability Access Review and Advisory Committee is developing an Emergency Evacuation Planning Guide for People with Disabilities.
- Improving the Technical Basis for the Standard Fire Resistance Test for Performance-Based Fire Design of Buildings. This project will develop the technical basis for changes and additions to ASTM E 119 and NFPA 251 so that measurements and results can be used in performance-based design, without compromising the traditional use of the test standard for prescriptive building code compliance. It will focus on data that would be of value to the engineering community; for example thermal exposure conditions; furnace pressure conditions; structural loading conditions; test assembly deflections, etc. It will cover two types of assemblies: 1) gypsum wall board covered load bearing steel stud walls and, 2) composite unrestrained concrete slab/protected unrestrained steel beam floor assemblies.

b) ICC

Code development hearings held September/October with more than 2200 proposed code changes. 18 related to the NIST WTC Investigation and the 30 specific recommendations made in the "Final Report of the Collapse of the World Trade Center Towers". Next step is public comment period (due Jan. 24) followed by a Final Action Hearings May 21 – 26, in Rochester, New York. Changes that are approved at the will be incorporated into the 2007 Supplement to the International Codes. A 2007/2008 cycle follows, leading to the publication of the 2009 I Codes.

Changes agreed to by code committees:

- | | |
|------------------|--|
| Structural Code | - Spray fire resistant materials – Inspection |
| Fire Safety Code | - Structural frame rating |
| | - Spray fire resistant materials – application |
| D. General Code | - Fire service elevator – D w/Assembly Action |
| | - Spray fire resistant materials – Bond strength |

7.2 Australia

LP/MB reported:

1. Protocol being developed for the use of structural software as a result of collapse of a roof truss. The structural analysis is correct but the software makes assumptions that might not be evident to those using it, e.g. fully restrained ends, maximum spans that as-built might exceed, etc.
2. Clarification and quantification of performance programme continuing. There is difficulty in setting the right level and metric for indoor air quality. Comment was made about the non fire performance requirements. There is a connection between things such as light, sound, warmth, e.g. the issues that make people comfortable. Metrics are all connected.

3. Three recent cyclones deemed to be category 5 >290km/hr. There is a push to redesignate parts of the north of Australia to category 5. What wind level do you therefore design for? The insurance industry had reported that previously considered 100 year events were now considered to have a 17 year return period. This raised the issue of sustainability from a climate change perspective, regulating for rain water tanks, solar water heaters. How do you balance regulation and market driven decisions.
DB reported that a context paper had been prepared for the Canadian Code on the role of regulation, insurance and markets that he would send to MS for sharing with members. **(Action 3)**

7.3 Austria

RM advised requirements of the Energy Performance Building Directive, EPBD.

- Directive 2002/91/EC of the European Parliament 16 Dec 2002.
- Implementation deadline for members 4 Jan 2006. No member has yet fully complied. Some members have partly complied and the majority will be 2008/09.
- Establishes a methodology for the calculation of the integrated energy performance of buildings, OIB Guideline 6
- minimum requirements on the energy performance of new buildings, OIB calculation manual, will be replaced by Austrian Standard. Free calculation software tool can be downloaded from OIB website
- minimum energy performance requirements for large buildings undergoing major renovation
- energy certification of buildings
- regular inspection of boilers in buildings and assessment of boilers more than 15 years old
- regular inspection of air-conditioning systems in buildings

Progress on harmonisation of Building Regulations of the Austrian Provinces

- All 9 governors have signed the treaty
- Treaty has been ratified in 7 out of 9 provincial parliaments
- OIB Guidelines 1 to 6 revised after pre-consultation and ready for final consultation Oct 06 – Jan 07
- Anticipate adoption Mar/Apr 07 and coming into effect 1 Jan 08.

7.4 Canada

DB has responsibility for the InfraGuide project, partnership of NRC and Federation of Canadian Municipalities to develop best practices for the sustainable management of municipal infrastructures. www.infraguide.ca

Publication of CD-ROM version of the 2005 national codes in objective-based format:
<http://irc.nrc-cnrc.gc.ca>

- National Building Code, National Plumbing Code and National Fire Code of Canada and their User's Guides – Application and Intent Statements
- Approx. 18,000 copies of the printed version sold since their publication in September 2005
- Adoption by the provinces and territories by the end of 2006
- On-line pay-per-view service in December 2007

Canadian Commission on Building and Fire Codes (CCBFC) www.nationalcodes.ca

- First meetings of 7 new standing committees and their task groups:
 - o Undertake technical work on CCBFC approved priorities
 - o Work plans for CCBFC approval

Joint Task Group on impact analysis of code change requests:

- Develop guidelines for the Policies and Procedures
- Coordinate with
 - o Provinces and territories
 - o Standard development organizations in Canada

IRC task group on code writing practices:

- What information belongs in codes, appendices, user's guides, etc?
- How to structure the information within documents?
- Use of « clear » language

IRC task group on standards:

- Re-examine the relationship between codes and referenced documents
- Reinforce relationship with standard development organizations (SDO) in Canada
- Explore options to referencing fully consensus-based standards
- Develop guidelines for SDOs and CCBFC standing committees

DB advised that Canada was focusing research efforts on housing (stair design, ramps, hand rails, residential design fires, fire performance of timber and steel framed houses, lateral loading as houses getting larger, secondary suites, building envelope for moisture management) rather than high rise, sustainability and disability access.

7.5 England & Wales

TN reported:

- Climate change. Move to Nordic performance requirements. An energy review has considered exacting targets for 2020 and 2050 considering demand and supply to reduce carbon emissions.
- A Code for Sustainable Homes developed with tougher standards. This is providing a vision for what building regulation might include in 3 – 4 years.
- Compliance continues to be a concern. Enforcement is not always 100% effective. Health and safety remains the main compliance focus and people do their best for issues such as energy performance.
- Review of existing buildings. The real prize for reducing carbon emissions is with existing buildings as new buildings represent only 1%. New climate change office being considered which will take responsibility for existing dwellings.
- Review of fire regulations. Questioning the wisdom of door closers, often not used properly.
- Regulation reform order. 70 pieces of fire regulation into one. There has been a risk assessment of measures considering life safety.
- A root and branch review of building regulation is being undertaken.

7.6 Japan

MH reported:

- The Japanese MLIT continues to address the problems of structural fraud. Structural calculations had been falsified on 100 buildings mainly high-rise condominiums and hotels. 53 buildings need to be rectified and 32 buildings demolished. As the designers and builders have gone bankrupt there is little compensation for owners or residents. Wide-ranging investigations have revealed some other similar, but minor, misconduct.
- Issues have been classified into the following three items:
 - Licensing and registration for building designer. Should the traditional “Kenchikushi” system be modified to secure the quality of building design? There is no distinction between Architect and Engineer and plans must be signed by a Kenchikushi who assumes liability for the whole design, even if it is actually done by several Kenchikushis. This comes from the time when a master builder had complete control over construction work. Circumstances

have now changed. New qualifications for specific building designers will be created if the current proposal passes the Diet.

- Building confirmation and inspection. How should the function and capacity for checking be enhanced? While the Kenchikushi is primarily liable for the compliance, the building official still has to “confirm” the compliance. Following the scandal there is now greater expectations for a strict checking system. Factors to be considered include the move to performance-based regulations, especially in structural safety, and the ability to provide sufficient workforce with adequate engineering knowledge. Building confirmation approvals amount to 750,000-800,000/year; building officials number 4,800 (public: 3,300, private: 1,500); private sectors currently undertakes more than 50% of applications. A revised Act will come into effect in June 2007, and consideration is being given to:
 - o restructure and clarify technical requirements for structural safety
 - o improve reliability of computer programs for structural calculation
 - o require expert review on structural calculation for certain high-rise buildings
 - o establish guidelines for building confirmation and inspection
 - o mandate interim inspections for residential complexes of three or more storeys
 - o strengthen the criteria for private confirmation and inspection bodies
 - o enhance supervision of private bodies by local authorities
- Insurance
Should any professional insurance or home warranty be made mandatory? Housing sellers are liable for major defects for 10 years, but neither professional insurance nor housing warranty is mandatory. Should they be made so? What types of building should be covered? And should the government be involved in this field by way of reinsurance etc.? Discussion is ongoing and will be taken up in the next Diet session.

7.7 New Zealand

MS reported:

- Building Code review
 - approx 300 submissions received from recent public consultation document.
 - balancing risk with affordability was a common theme
 - strong interest expressed in sustainability, improved energy performance and for more efficient water use
 - the importance of Building Act working with planning legislation, Resource Management Act was highlighted
 - now working on risk informed performance framework considering performance groups (importance & risk), design events, tolerable impacts, performance criteria and design scenarios. Strong interest in development of fire design scenarios. MS to forward details (**Action 4**)
 - next discussion document with performance criteria scheduled for May 2007 with report for recommendations for changes to the Minister 30 November 2007.
- Energy efficient buildings
 - consultation about to occur on energy efficiency improvements ahead of the outcome of the Building Code Review, including higher thermal performance requirements for housing, improved lighting energy density levels for commercial buildings, an Acceptable Solution for the installation of solar water heaters to reduce compliance costs. Also consideration is being given to developing an energy rating requirement for hot water supply and energy efficiency requirements for HVAC commissioning and on-going use.

- Building Consent Authorities accreditation
 - Building consent authorities (local councils) required to be accredited by November 2007. Aims to improve the building consent and inspection processes and give homeowners and homebuilders greater confidence. Building consent authorities will have to meet a set of standards and criteria in order to become accredited. IANZ will undertake the accreditation process.
- Weathertightness projects include:
 - whether new building work is now being constructed so as to avoid weathertightness issues
 - developing guidance on effective remediation of affected buildings
 - consideration of liability and whether a more effective insurance regime could operate (professional indemnity for builders, home warrantee schemes, etc)
 - changes to the Weathertight Homes Resolution Service delivery
- Building Practitioner Licensing
 - Licensing being phased in between 1 November 2007 and 30 November 2011.
 - ‘Site Lead’ and ‘Design Lead’ categories for three levels of building complexity - straightforward, moderately complex and large or publicly important buildings.
 - Seven specialist and trade licence classes covering all building categories: concrete structure; steel structure; building services; carpentry; external plastering; roofing; brick and blocklaying.
 - Develop of assessment criteria and standards for each licence class, as well as the supporting business systems including the register of licensed building practitioners. The Department will be in a position to accept applications for design and site licenses by 1 November 2007.

7.8 Norway

LL presented the following:

- Rockfalls in western Norway and the risk of Tsunami in fjords raised media and political concern. Requires consideration of surveillance system criteria for installation, ownership and maintenance. Also about the different risk between property and human safety.
- Technical regulations – changes proposed:
 - Energy - Following the European Energy Directive, but stating our own national levels of energy efficiency. Political goal to make “low energy houses” the level for new houses (100 kW/m²/year). Proposals caused concern about high information and education needs, costs, problems for small enterprises and manufacturers. Wall insulation 15cm to 25cm. Glazing u 1.2 to 1.6 (20% limit). Increased air tightness.
 - Universal design – Government’s policy to strengthen the development and use of building designs that that provide good functional use for everyone. Keen to introduce the expression Universal Design in regulations. This fits well with the 3 year national information program on universal design and how to make the built environment useable for everyone.
 - Water and sewage infrastructure – New regulations, previously not included in Technical regulations. Proposed to be in effect from 01.01.07.
- New Building Legislation

A draft of a new Building Act has been presented to simplify, make it easier for users and to increase efficiency and quality in the building industry. Planned to come into force in about two years, early 2009, at the earliest. Some proposals:

 - The application system is ok, some minor changes to increase efficiency
 - The building control systems and the system for requiring qualifications of companies undertaking design and building should be modified. The use of 3rd

party review should increase. The voluntary central approval system to become compulsory.

- Supervision, carried out by the local authorities, to be strengthened.
- The Building Cost Program
A 5 year program founded by the government started 2005 with its goal to reduce building costs by increasing the productivity and the quality in the building industry. The program will focus on three main fields:
 - Increase customer competence for purchase decisions and identify defects.
 - Increase the productivity, partly by reducing errors.
 - Stronger leadership and increased responsibility in all parts of the building process.
- Fire issues – sandwich panels
A big fire in residential building in July highlighted the use of combustible insulation in general and sandwich panels in particular. There has been large scale testing of sandwich panels and the panels used in the building had reached the highest class in the test. However a very rapid fire spread and high damage occurred. Changes to regulation being considered. Raises issues about the European system for classifying building products (Euroclass test for sandwich panels)
- IT developments – The ByggSøk system
System for e-Government in the field of zoning, building and construction is proving very successful. Local government can offer free of charge electronic services in zoning, electronic processing of building applications. It reduces costs, provides 24/7 services, more user-centred, consistent, comprehensible and open. Working closely with Singapore using their automatic plan checker system. A demonstration version of a drawing checker in the field universal design is to be presented at a conference in Washington in November.

7.9 Scotland

PS reported:

- Revisions to the Technical Handbooks have been prepared, consulted upon, and will come into force on 1 May 2007. These cover the following standards:
 - Section 1 – Structure
New standards on disproportionate collapse, and the effect developments might have on surrounding buildings. New prescriptive guidance available (need not be used) to cover small (one and two storey) traditional buildings
 - Section 3 – Environment and Section 4 – Safety
Improved standards on access to, and facilities for, people with disabilities to public buildings, and on domestic buildings to enable people who become infirm or disabled to remain in their homes (sometimes called “lifetime homes”)
 - Section 6 – Energy
Significantly higher standards for the energy performance of all buildings. Limits on the acceptable amount of carbon dioxide to be produced in the heating/cooling of by new buildings. Requirements for the energy labeling of buildings and the inspection of air-conditioning plant to meet the requirements of the European “Energy Performance of Buildings Directive”.
New Technical Handbooks (Domestic and Non-domestic) to support the regulations will be published at the start of 2007.
- Auditing of local authorities to ensure their effectiveness in acting as verifiers of the building standards has commenced. The first four audits are now published on the website, a further one is being added virtually every month. The SBSA continues to consider applications from professional and trade bodies for appointment as certifiers able to certify compliance of the speciality with the

standards. All such bodies are audited annually and copies of the schemes and audit reports can be found on the web-site.

- Other recent initiatives by the SBSA include:
 - The launch of a dedicated web-site on making improvements to existing dwellings to promote sustainability.
 - Some thinking on a possible second edition of the “Guidelines for the Introduction of Performance-based Building Regulations” published by the IRCC in 1998.

Agenda Item 8 Safety in Case of Fire (Johan Lundin thesis)

LP had provided a summary the Ludin findings:

- No verifiable acceptance criteria for design
- High degree of variability in prescriptive design
- High variability in safety in performance analytic design as designers decide appropriate levels themselves. No fixed levels
- Need more robust approach to fire engineering

There was a need to define the fire loads. What are the performance metrics for regulating fire engineering?

The LP questionnaire to be resent and countries who have not yet responded to do so ready for consolidation at next meeting. **(Action 5)**

Agenda Item 9 Relationship with Standards Organisations

Responses to the survey on relationship with Standards organizations sent out by TT are required from Norway, US, England & Wales, Austria and Japan. Questionnaire to be resent. Results to be collated for next meeting. **(Action 6)**

Agenda Item 10 Egress and access for people with disabilities

RB sent papers on protected elevators for fire service access and occupant egress. BM indicated that there is an ASME workshop on evacuation and elevators being used under emergency. The recommendations from joint work of ASME/NIST should be available within 12 months. Options are protect in place, areas of ‘refuge’, and use of lifts. Issues remain both technically and management for the latter option. Scotland is looking for an egress solution for the 2/3 storey buildings. RB mentioned the NFPA Guide for people with disabilities considering technology and evacuation plan. There has been a regulation reform order for England & Wales on the use and operation of buildings and need to appoint person responsible for safe evacuation. There was concern as to whether building regulation can regulate for management actions. RB to report at next meeting. **(Action 7)**

Agenda Item 11 Fire safety buildings over 60m

PS provided the survey results comparing the different fire standards of IRCC members on buildings with storey height of more than 60m above the ground. These focused particularly on:

- Compartmentation and separation
- Structural protection;
- Escape;
- Escape lighting
- Communication (including automatic detection)
- Access, water supply and facilities for the Fire and Rescue Services
- Automatic life safety fire suppression systems

Further work is underway.

PS also reported on the completion of a research project to compare the International Fire Engineering Guidelines produced by the IRCC and British Standard 7974 on fire engineering. As a result Scotland intends to cite both documents as alternatives and would like to participate in the next edition of the IFEG. This was welcomed. The document was released in March 2005 and it was intended to be updated every three years. Brian Ash would consider a timetable for updating. **(Action 8)**

Agenda Item 12 Compliance with Performance based regulations

PS raised the issue of the 1998 IRCC “Performance Based Building Regulations” document and the need for it to be updated. The basic principles are valid but the context and country examples are dated. There is too much emphasis on fire engineering and not sufficient on energy. There was unanimous agreement to produce a 2nd edition. This does require a strong commitment from all. PS agreed to develop a paper on content and format, etc and that it would be the subject of a half day scoping exercise at the next meeting. **(Action 9)**

Agenda Item 13 Parking Lot Issues

The parking lot issues were prioritized with each country indicating their highest priority. Healthy buildings (indoor environment) to be added.

Topic	Member rating topic highest priority
1. Security	
2. Energy	PM, RO, JT
3. Existing buildings	DB, BM, MS, HS, MB
4. Universal design	RB, RO, LL
5. Definitions for common understanding	
6. Document Storage	
7. Tall building requirements	
8. Sustainability	RO, RM, TN,
9. Climate change	
10. Healthy buildings	

Add existing buildings as a topic for next meeting. DB to provide the lead. **(Action 10)**

Agenda Item 14 Other Business

MB spoke about membership issues and highlighted the amended charter rules.

Agenda Item 15 Next meeting / Comments for future meetings

- Next meeting set for Beijing, 19 – 22 March 2007
- Following meeting Vienna, Austria, 8 – 10 October 2007

Subsequent meetings:

- New Zealand 2008 (March)
- Spain 2008 (October)
- Canada 2009 (May)

Agenda Item 16 Close

MB again thanked BM for organizing and hosting the meeting and for arranging the Risk, PEER workshops and San Francisco and San Jose building official meetings. Meeting closed 12 noon Tuesday.

Actions from IRCC San Francisco Meeting

ID	Action	Action By
1	The BM write up of the Gold Coast Global Policy Summit on Sustainability to be posted on the Website	MS
2	JT advised that there is no weblink to the ASTM research on slip resistance. The ASTM contact person is Dan Schultz. JT to enquire whether minutes of the F13 workgroup are available and advise. TN to provide the appropriate European National Standards on slip resistance.	JT TN
3	DB to send context paper prepared for the Canadian Code on the role of regulation, insurance and markets to MS for sharing with members.	DB MS
4	Strong interest in development of fire design scenarios. MS to forward details to PS	MS
5	The LP questionnaire on Ludin thesis on fire engineering to be resent and countries who have not yet responded to do so ready for consolidation at next meeting.	MS, TN, RM, OA, MP, JS, RO, MP
6	Responses to the survey on relationships with Standards organizations sent out by TT required from Norway, US, England & Wales, Austria and Japan. Questionnaire to be resent. Results to be collated for next meeting.	LL, MP, RO, TN, RM, OA,
7	RB to report at next meeting on progress on protected elevators for fire service access and occupant egress.	RB
8	Scotland would like to participate in the next edition of the IFEG. The document was released in March 2005 and it was intended to be updated every three years. Brian Ash would consider a timetable for updating.	MB
9	Unanimous agreement to produce a 2 nd edition of the IRCC “Performance Based Building Regulations” document. This does require a strong commitment from all. PS agreed to develop a paper on content and format, etc and that it would be the subject of a half day scoping exercise at the next meeting.	PS All
10	Add existing buildings as a topic for next meeting. DB to provide the lead.	DB

Appendix: Correspondence between Norway Meeting May 2006 and San Francisco Meeting October 2006

Date	From	Details
12 October 2006	Brian Meacham	Last minutes updates on schedules to All
7 October 2006	Brian Meacham	Correction of a timing error in previous email to All
7 October 2006	Brian Meacham	Details on visit of building Dept to All
6 October 2006	Tas Twyman	Reply sending 6 countries reply to questionnaire on referenced standards to All
6 October 2006	Mike Stannard	Canada update, summit on sustainability and Norway minutes to All
6 October 2006	Brian Meacham	Reply to MS with Global Policy Summit paper to MS
5 October 2006	Brian Meacham	Sending document on Risk
4 October 2006	Brian Meacham	Risk workshop agenda to Speakers, MB, MS and RO
3 October 2006	Paul Stollard	Reply to say great agenda and wanting one more item to be included to MS
3 October 2006	Mike Stannard	Updated agenda and meeting and event schedule to All
27 September 2006	David Smith	Reply to follow up to MS
26 September 2006	Jon Traw	Reply to follow up to MS
21 September 2006	Brian Meacham	Updates on Risk Workshop and Seismic seminar
18 September 2006	Brian Meacham	Confirmation on participants for PEER – IRCC Meeting to invited workshop on performance to MS, WG, LP and DB
12 September 2006	Brian Meacham	Sending papers for Risk Workshop and Seismic seminar to All
23 August 2006	Takahashi	Sending some information on government standards in Japan to All
16 August 2006	Jim McGonigal	Sending a comparative study on tall buildings to MS
10 August 2006	Brian Meacham	Latest update on Risk Workshop to All
8 August 2006	Lam Pham	Sending discussion on Lundin thesis, Australia country update and response format to All
15 July 2006	Brian Meacham	Sending invite letter and Risk workshop questions to RO, MS and MB
12 July 2006	Brian Meacham	Sending latest draft of the Risk workshop to All
27 June 2006	Brian Meacham	Sending Risk Workshop to All
17 June 2006	Mike Stannard	Sending draft agenda, planning information and hotel form
14 June 2006	Lam Pham	Requesting to discuss risk event and sending further questions to BM and All
8 June 2006	Jim McGonigal	Requesting regarding fire safety in tall buildings
2 June 2006	Tariq Nawaz	Sending a questionnaire on existing building stock to All