



MEETING REPORT
INTERSOCIETY LIAISON SUBCOMMITTEE /
INTERNATIONAL STANDARDS ADVISORY SUBCOMMITTEE

2013 ASHRAE Annual Conference – Dallas, TX
Friday, January 25, 2013

Members Present: Jay Kohler (ILS/ISAS chair), Hoy Bohanon (ILS/ISAS), Cecily Grzywacz (ILS/ISAS), Debra Kennoy (ILS/ISAS), Essam Khalil (ISAS), Michael Newman (ISAS)

Members Absent: Karim Amrane (ILS/ISAS), James Walters (ISAS)

Guests: Ken Cooper (StdC chair), Wayne Reedy, Walid Chakroun

Staff: Douglas Tucker, AMOS-I, Secretary

I. Chairman’s Remarks and IntroductionsKohler

The chair opened the meeting at 1:00 pm and welcomed the members to Dallas.

II. Adoption of Agenda with Additions and ChangesKohler

The committee adopted the agenda as circulated by the Secretary.

III. Secretary’s Report Tucker

A. Review of ILS and ISAS Membership

ILS Membership, 2012-2013

ISAS Membership 2012-2013

Jay Kohler [13], Chair

Jay Kohler [13], Chair

Karim Amrane [14]

Karim Amrane [14]

Hoy Bohanon [13]

Hoy Bohanon [13]

Cecily Grzywacz [14]

Cecily Grzywacz [14]

Debra Kennoy [15]

Debra Kennoy [15]

Dr. Essam E. Khalil [15]

Mike Newman [13]

James Walters (AHRI) [14]

Doug Tucker (Staff)

Doug Tucker (Staff)

B. Approval of minutes of June 2012 meeting

A motion was made by Grzywacz and seconded by Kennoy to approve the minutes of the June 2012 meeting. The motion passed 6-0-0-2.

C. Open Action Items from Technology Council/ExCom

i. Adoption of international and other standards developed outside the ISO framework

An action item was assigned to ILS/ISAS to measure ASHRAE's effectiveness in the international standards market and look at those that are more successful (such as ISO) to find ways to improve ASHRAE's performance. ILS is also assigned to determine if any international standards could be adopted by ASHRAE.

The chair stated that this action item indicates the interest at the BOD level of the global implementation/adoption of ASHRAE standards. These types of questions, comments, and suggestions are an indication of interest. This merits a discussion of the definition of the "international standards market" and how we can determine our "effectiveness" and "performance," since these are not easily quantified.

ii. Develop a process for ASHRAE to follow in responding to requests for adapting ASHRAE standards for use in other countries/regions.

An action item was assigned to Technology Council by ExCom to develop a process for ASHRAE to follow in responding to requests for adapting ASHRAE standards for use in other countries/regions.

The chair provided a summary of the action taken since the action item was assigned. The committee held three conference calls and produced a document titled "Regional and Chapter Adaptation of Standards and Guidelines".

The committee agreed on the scope and discussed specific content.

- Translations are outside the scope of this document.
- Adaptation projects are done not only for recompense but also for the good of the Society.
- The work will be done by someone, so it is better to be done by the source (ASHRAE).
- How to go about refining standard, updating, making better (maintenance procedure for these standards)?
- How to make those who adapted the standard aware that base standard has been revised with addenda or new edition published? The adapting group should be asked if they would like to be involved in revision of the base ASHRAE standard.
- Adapted documents must clearly indicate that they serve a special purpose and that they have not undergone the ANSI or ASHRAE consensus process and are not official ANSI or ASHRAE standards. The ASHRAE parent document shall be given recognition as the basis for the adapted document.
- A public review should be held (a public review by parties who may be impacted by the adapted standard is encouraged).

A motion was made to advance this document as amended at this meeting to Ken Cooper. The motion passed 5-0-0-3. The finalized document titled “International Adaptation of Standards and Guidelines”, which provides a scope and set of principles for this process, was provided to Ken Cooper for review and comment.

IV. Review of Open Action ItemsKohler

- **Action Item SLC #1 – The Secretary** is to develop a matrix showing all related ASHRAE standards, SPCs, and TCs in relation to existing and draft international standards. The secretary is to then draft a letter to the TC and SPC chairs outlining standards and CEN/ISO TCs of potential interest and explaining CEN/ISO and liaison procedures.

Status - Ongoing.

- **Action Item SLC #2 – The Secretary** is to provide ILS/ISAS with international sales data for ASHRAE standards, a list of ASHRAE standards in wide use internationally (“de facto” international standards, e.g. Standard 34), and a list of ASHRAE standards that have been adopted internationally (ISO, regionally, individually). The committee also asked the Secretary to obtain a list of standards that have been translated into other languages.

Status – Ongoing.

- **Action Item LV #1 – The Secretary** and Jim Walters are to prepare a questionnaire for the local chapters to address implementation plan item 3, bullet 2.

Status – Ongoing.

- **Action Item MON #2 – The Secretary** accepted an action item to circulate a letter to the Region-at-Large, Associate Society Alliance, and international chapters. The letter will serve to introduce the standards matrix and a “questionnaire” for local use and adaptation of ASHRAE standards.

Status – Ongoing.

- **Action Item MON #3 – The Secretary** accepted an action item to incorporate the consideration of international standards and participation of international experts in PC work plans, the form for proposing a new ASHRAE standard, and the PC reference manual.

Status – Ongoing. ASHRAE SPCs now have the ability to add International Organizational Liaisons to their rosters. The Secretary will address the various ASHRAE forms prior to the next meeting.

V. ASHRAE Representatives on Committees of Other Organizations:

A. Update on Intersociety Representatives activities Tucker

No report. The list is unchanged.

B. Tracking ANSI PINS and Public Reviews of interest to ASHRAE Tucker

The AMOS-I reviews ANSI Standards Action (published weekly) to identify public review and project initiation notices for standards which may conflict with published or proposed ASHRAE standards. The following actions have been taken since the 2012 Annual Conference. **Unless otherwise noted, no conflicts or overlap with existing or proposed ASHRAE standards were identified.**

- i. **NECA**, the National Electrical Contractors Association, announced the 1st public review of BSR/NECA 701-201x, *Standard for Energy Management, Demand Response, and Energy Solutions*, in the July 6, 2012 edition of ANSI Standards Action. The notice was sent to SPC 201P, GPC 14 and TC 7.6.
- ii. **ACCA**, the Air Conditioning Contractors of America, announced the initiation of a new standard, BSR/ACCA 6 QR-201x, *Restoring the Cleanliness of HVAC Systems*, in the July 20, 2012 edition of ANSI Standards Action. The notice was sent to SSPC 180 and TC 7.3.
- iii. **ACCA**, the Air Conditioning Contractors of America, announced the initiation of a new standard, BSR/ACCA 4 QM-201x, *Maintenance of Residential HVAC Systems*, in the July 20, 2012 edition of ANSI Standards Action. The notice was sent to TC 7.3 and TC 9.5.
- iv. **RESNET**, the Residential Energy Services Network, Inc., announced the public review of BSR/RESNET Standard 301-201x, *Standard for the Calculation and Labeling of the Energy Performance of Low-Rise Residential Buildings using the HERS Index*, in the August 10, 2012 edition of ANSI Standards Action. The notice was sent to SSPC 90.2, SPC 100, SPC 105, GPC 14, SSPC 62.2 and TC 7.6.
- v. **IIAR**, the International Institute of Ammonia Refrigeration, announced the public review of BSR/IIAR 2-201x, *Equipment, Design, and Installation of Closed-Circuit Ammonia Mechanical Refrigeration Systems*, in the August 10, 2012 edition of ANSI Standards Action. The notice was sent to SSPC 15.
- vi. **ASTM** announced the public review of BSR/ASTM WK31820-201x, *Test Method for Measuring the Field Performance of Commercial Kitchen Ventilation Systems*, in the September 7, 2012 edition of ANSI Standards Action. The notice was sent to SSPC 154 and TC 5.10.
- vii. **BPI**, the Building Performance Institute, announced the public review of BSR/BPI 1100-T-201x, *Home Energy Auditing Standards* (formerly BSR/BPI 101-201x), in the October 5, 2012 edition of ANSI Standards Action. The notice was sent to SSPC 62.2, SSPC 90.2, SPC 100, GPC 14, TC 4.7, TC 6.7, TC 7.6 and MTG-BPM.
- viii. **IIAR**, the International Institute of Ammonia Refrigeration, announced the public review of BSR/IIAR -201x, *Developing Operating Procedures for Closed-Circuit Ammonia*

Mechanical Refrigeration Systems, in the October 26, 2012 edition of ANSI Standards Action. The notice was sent to SSPC 15, TC 7.3 and TC 10.1.

- ix. **AABC**, the Associated Air Balance Council, announced the initiation of a new standard, BSR/AABC MN-1-201x, *AABC National Standards for Total System Balance, 7th Edition*, in the December 28, 2012 edition of ANSI Standards Action. The notice was sent to SPC 111 and TC 7.7.
- x. **NECA**, the National Electrical Contractors Association, announced the 2nd public review of BSR/NECA 701-201x, *Standard for Energy Management, Demand Response, and Energy Solutions*, in the January 4, 2013 edition of ANSI Standards Action. The notice was sent to SPC 201P, GPC 14 and TC 7.6.

VI. Canvass Method Standards Tucker

ASHRAE participates in the review of standards in the fields of HVAC&R developed by other American National Standards developers. ASHRAE participation is either solicited by the standards developer directly or prompted by staff review of ANSI Standards Action.

- A. SMACNA:** ASHRAE will participate in the canvass review of BSR/SMACNA 014-201x, *HVAC Systems – Commissioning Manual*.

VII. International Standards:

A. Implementation plan for international standards policy Tucker

ISAS discussed the international standards implementation plan in detail and assigned actions items to execute specific parts of the plan such as 1) increasing international participation in the ASHRAE standards development process, 2), communicating with ASHRAE’s international membership and associate societies regarding demand for ASHRAE standards 3) promotion of international standards activities in ASHRAE.

The chair advised the committee that this implementation plan is at the heart of what we are doing as a committee; the promotion of ASHRAE standards and development of standards with international application.

Under the 2nd bullet, MOUs are included but are not the primary focus, which is the support of regional and international standardization. The secretary is to remove the APP/BATF and China references.

The chair suggested that ISAS put together a proposal for funding selected items on the implementation plan and submit it to Standards Committee.

The secretary intends to discuss line item budgets for the implementation plan with the MOS.

B. Information on recent TC and WG meetings Tucker

a. ISO/TC 86 – Refrigeration and Air-Conditioning

- i. ISO 13971:2012, *Refrigerating systems and heat pumps – Flexible pipe elements, vibration isolators, expansion joints and non-metallic tubes – Requirements, design and installation*, has been published.
- ii. ISO 14903:2012, *Refrigerating systems and heat pumps -- Qualification of tightness of components and joints*, has been published.
- iii. ISO/TS 14961:2012, *Guidelines for the evaluation of uncertainty of measurement in air conditioner and heat pump cooling and heating capacity tests*, has been published
- iv. ISO/FDIS 817, *Refrigerants – Designation and safety classification*, failed the approval ballot. Several disapproval votes were submitted by countries which had not participated in the development of the standard and had not submitted disapproval votes on previous drafts. ISO/TC 86/SC 8 intends to meet in April to address the comments and prepare the second FDIS for ballot.
- v. ISO/FDIS 5149 (in 4 parts), *Refrigerating systems and heat pumps – Safety and environmental requirements*, failed the approval ballot. The primary substantive comments submitted with the disapproval votes concerned the treatment of class 2L refrigerants and the eventual need to harmonize with IEC, CEN and ASHRAE standards. ISO/TC 86/SC 1/WG 1 and ISO/TC 86/SC 1 will meet in Dallas in conjunction with the ASHRAE winter conference to address the comments and prepare the second FDIS for ballot.
- vi. ISO/DIS 16345, *Water cooling towers –Testing and rating of thermal performance*, passed the enquiry ballot.
- vii. ISO/FDIS 16358, *Air-cooled air conditioners and air-to-air heat pumps -- Testing and calculating methods for seasonal performance factors – Part 1: Cooling seasonal performance factor , Part 2: Heating seasonal performance factor, and Part 3: Annual performance factor*, are currently under approval ballot.
- viii. ISO/DIS 16494, *Heat recovery ventilators and energy recovery ventilators – Method of test for performance*, is currently under enquiry ballot.

b. ISO/TC 142 – Cleaning equipment for air and other gases

- i. Working Group 2, *UV-C Technology*, will meet in Dallas in conjunction with the ASHRAE annual conference.
- ii. ISO/FDIS 10121-2, *Test method for assessing the performance of gas-phase air cleaning media and devices for general ventilation — Part 2: Gas-phase air cleaning devices (GPACD)*, is currently under approval ballot.
- iii. ISO/CD 12249-1, *Particulate air filters for general ventilation -- Part 1: Method of calculation for the life cycle cost for air cleaning devices*, is currently under committee review.

- iv. ISO/CD 16890-1, *Air filters for general ventilation -- Part 1: Technical specifications, requirements and efficiency classification system based upon Particulate Matter (PM)*, is currently under committee review.
 - v. ISO/FDIS 29461-1, *Air intake filter systems for rotary machinery -- Test methods -- Part 1: Static filter elements*, is currently under approval ballot.
 - vi. ISO/FDIS 29462, *Field testing of general ventilation filtration devices and systems for in situ removal efficiency by particle size and resistance to airflow*, is currently under approval ballot.
 - vii. ASHRAE will host the 2013 meetings of ISO/TC 142 in Atlanta on September 16-19.
- c. ISO/TC 180 – Solar Energy**
- i. ISO 9459-4:2012, *System performance characterization by means of component tests and computer simulation*, has been published.
 - ii. ISO/DIS 22975-3, *Solar Energy – Collector components and materials – Part 3: Absorber surface durability*, is currently under enquiry ballot.
- d. ISO/TC 205 – Building Environment Design**
- i. ISO/TC 205 and ISO/TC 163, *Thermal performance and energy use in the built environment*, met in La Rochelle, France in September 2012.
 - ii. ISO 11855-1:2012, *Building environment design — Design, dimensioning, installation and control of embedded radiant heating and cooling systems —Part 1: Definitions, symbols and comfort criteria*, has been published.
 - iii. ISO 11855-2:2012, *Building environment design — Design, dimensioning, installation and control of embedded radiant heating and cooling systems —Part 2: Determination of the design heating and cooling capacity*, has been published.
 - iv. ISO 11855-3:2012, *Building environment design — Design, dimensioning, installation and control of embedded radiant heating and cooling systems —Part 3: Design and dimensioning*, has been published.
 - v. ISO 11855-4:2012, *Building environment design — Design, dimensioning, installation and control of embedded radiant heating and cooling systems —Part 4: Dimensioning and calculation of the dynamic heating and cooling capacity for TABS (Thermo Active Building Systems)*, has been published.
 - vi. ISO 11855-6:2012, *Building environment design — Design, dimensioning, installation and control of embedded radiant heating and cooling systems —Part 6: Control*, has been published.
 - vii. ISO 13153:2012, *Framework of the design process for energy-saving single-family residential and small commercial buildings with the energy consumption ratio as a criterion*, has been published.

- viii. ISO/DIS 13612, *Heating and cooling systems in buildings -- Method for calculation of the system performance and system design for heat pump systems -- Part 1: Design and dimensioning, and Part 2: Energy calculation*, passed the enquiry ballot.
- ix. ISO/DIS 13675, *Heating and cooling systems in buildings - Method and design for calculation of the system energy performance - Combustion systems (boilers)*, passed the enquiry ballot.
- x. ISO/TR 16344:2012, *Energy performance of buildings — Common terms, definitions and symbols for the overall energy performance rating and certification*, has been published by the TC 163-TC 205 joint working group.
- xi. ISO 16484-5:2012, *Building automation and control systems – Part 5: Data communication protocol*, has been published. This is an identical adoption of ANSI/ASHRAE Standard 135-2010.
- xii. Working Group 10, *Commissioning*, has been formed with Dr. Masato Miyata as convenor.

C. ISO/TC 59/SC 13: P-membership and administration of the US TAG Tucker

ISAS discussed ASHRAE acceptance of responsibility for the establishment and administration of the US TAG to ISO/TC 59/SC 13 and the corresponding ANSI Participating Membership on ISO/TC 59/SC 13.

BACKGROUND: The US (ANSI) is not a participating member of ISO/TC 59/SC 13. The work of SC 13 is closely related to ASHRAE interests in Building Information Modeling (BIM) and our members have expressed a desire to participate at the international level. Chris Wilkins, chair of ASHRAE MTG-BIM (Multidisciplinary Task Group – Building Information Modeling), has been proposed as the US expert on ISO/TC 59/SC 13/WG 11, *Product data for building services systems model*. ASTM is the administrator of the US TAG to ISO/TC 59 and supports ASHRAE administration of the SC 13 TAG. ASHRAE staff will coordinate this membership with ANSI, draft operating procedures for the TAG, and develop a TAG roster through ASHRAE contacts and a call for members.

FISCAL IMPACT: Approx. \$1500.00/year for the additional P-membership and ANSI program fees. This will be offset by the disbandment of ISO/TC 86/SC 2, Refrigeration and air-conditioning – Terminology, an inactive subcommittee for which ASHRAE holds the secretariat.

A motion was made by Grzywacz and seconded by Kennoy for ASHRAE to initiate the process for acceptance of responsibility for the establishment and administration of the US TAG to ISO/TC 59/SC 13 and the corresponding ANSI Participating Membership on ISO/TC 59/SC 13. The motion passed 5-0-0-3.

D. Review of TC, SC and TAG leadership positions Tucker

ILS/ISAS reviewed document VIID and discussed current positions and the process for succession and appointment.

ISO/TC 86	ASHRAE	Rick Bunch (term ended 12/31/2011) Drake Erbe (proposed, term to end 12/31/2015)
ISO/TC 86/SC 1	ASHRAE	Pascal Folempin, France (term ends 12/31/2013)
ISO/TC 86/SC 2	ASHRAE	Propose to disband
ISO/TC 86/SC 3	AHRI	Propose to disband
ISO/TC 86/SC 4	SAC (China)	Derrick J. Newson (term ended 12/31/2012)
ISO/TC 86/SC 6	AHRI	Daniel Ellis (term ends 12/31/2014)
ISO/TC 86/SC 7	AHRI	Derek Lea (term ended 12/31/2011; to be extended)
ISO/TC 86/SC 8	ASHRAE	Sonny Sundaresan (term ends 12/31/2014)
ISO/TC 142	UNI (Italy)	Paolo Tronville (term ends 12/31/2013)
ISO/TC 180	SA (Australia)	Ken Guthrie (term ends 12/31/2013)
ISO/TC 180/SC 1	SA (Australia)	Wolfgang Finsterle (term ends 12/31/2018)
ISO/TC 180/SC 4	ASHRAE	Jim Huggins (term ends 12/31/2013)
ISO/TC 205	ASHRAE	Stephen Turner (term ends 12/31/2013)
ISO/TC 86 TAG	ASHRAE	Vacant (Danny Halel proposed)
ISO/TC 142 TAG	ASHRAE	Don Thornburg
ISO/TC 180 TAG	ASHRAE	Jim Huggins
ISO/TC 205 TAG	ASHRAE	Mike Newman

VIII. Regional Review of Standards Activities:

A. Europe Tucker

Tucker reported that CEN is commencing the revision of existing standards and development of new standards to support mandate M/480 from the European Commission for the recast Energy Performance of Buildings Directive (EPBD). Due to concerns that this might challenge the established cooperation between ISO/TC 163 and CEN/TC 89, a meeting will be held in Geneva on February 7 to discuss potential problems.

CEN/TC 371, *Energy Performance of Buildings project group*, is responsible for the CEN work following mandate M/480, including planning and coordination of the standardization work, with a goal to develop a comprehensive set of standards related to the energy performance of buildings. CEN/TC 89, *Thermal performance of buildings and building components* and ISO/TC 163, *Thermal performance and energy use in the built environment*, will develop these standards under the Vienna Agreement. ISO/TC 163/WG 4, the joint working group between ISO/TC 163 and ISO/TC 205, is the natural ISO mirror committee to CEN/TC 371, i.e. the documents from CEN/TC 371 may be presented to WG 4 for their advice on whether they should be considered for publication by ISO.

B. North AmericaWalters

No report.

C. Middle East / Asia-Pacific..... Khalil

Dr. Khalil reported on the focus on adoption and adaptation of energy and air-conditioning standards. Many countries prefer to adopt ISO standards over any particular country or regional standards. This should emphasize to ASHRAE the efforts to have ASHRAE standards adopted in ISO. The depth and wealth of information in ASHRAE standards are by far better than any others.

IX. Other Business.....Kohler

ILS has an open Standards Committee action item to increase the number of project committee international organizational liaisons to five. There are currently five IOL: three on SSPC 135, one on SSPC 15, and one on 90.1.

X. Next Meeting.....Kohler

The next meeting of ILS/ISAS will be held on Friday, June 21, 2013, in Denver, Colorado, from 1:00 pm to 4:00 pm.

XI. AdjournmentKohler

The meeting was adjourned at 3:45 p.m.