

Technical Correlating Committee on Automatic Sprinklers

ROC Meeting

December 6, 2011

Windows Live Meeting and Conference Call

AGENDA

- 1. Call to Order (1:00 PM) (Acting TCC Chair Ken Linder).**
- 2. Self-Introductions of members and guests (Attachment A).**
- 3. Review of Distributed Meeting Materials (Matt Klaus).**
- 4. Approval of A12-ROP Draft Meeting Minutes (Linder) (Attachment B).**
- 5. Review of Meeting Procedures and Revision Process (Klaus)**
- 6. Staff Update (Klaus)**
 - a. Supplemental Operating Procedures**
 - b. Supporting Material**
 - c. Standards Council Update on Antifreeze (Attachment C)**
 - d. Metrification Task Group**
- 7. Actions on Technical Committee Reports (Linder).**

PRI – TC Chair Ken Wagoner
FOW – TC Chair Robert Gagnon
SSD – Acting TC Chair Kerry Bell
SSI – TC Chair Joe Noble
RSS – TC Chair Maurice Pilette
HBS – TC Chair James Biggins
- 8. New Business**
 - a. NFPA 909 Task Group**
 - b. 2012 FPRF Code Fund**
- 9. Assignments for ROC Meeting.**
- 10. Next Meeting – A2012 ROC Conference Call - TBD**
- 11. Adjournment.**

Attachment A – Technical Correlating Committee Roster

Address List No Phone

11/16/2011
Matthew J. Klaus
AUT-AAC

Automatic Sprinkler Systems

Jose R. Baz Principal JRB Associates Group Inc. 3876 SW 112th Ave., Suite 319 Miami, FL 33165 NFPA Latin American Section Alternate: Donato A. Pirro	M 11/14/1997 AUT-AAC	Kerry M. Bell Principal Underwriters Laboratories Inc. 333 Pfingsten Road Northbrook, IL 60062-2096 Alternate: George E. Laverick	RT 10/10/1997 AUT-AAC
Russell P. Fleming Principal National Fire Sprinkler Association, Inc. 40 Jon Barrett Road Patterson, NY 12563 Alternate: Kenneth E. Isman	M 10/10/1997 AUT-AAC	Scott T. Franson Principal The Viking Corporation 210 North Industrial Park Road Hastings, MI 49058 Alternate: Scott T. Martorano	M 1/18/2001 AUT-AAC
Michael J. Friedman Principal Friedman Consulting, Inc. 1 Bluestone Road Lutherville, MD 21093-4512	SE 3/21/2006 AUT-AAC	Raymond A. Grill Principal Arup Fire 1120 Connecticut Avenue, NW, Suite 200 Washington, DC 20036 Alternate: Thomas C. Brown	SE 10/10/1997 AUT-AAC
Luke Hilton Principal Liberty Mutual Property 13830 Ballantyne Corporate Place, Suite 525 Charlotte, NC 20277-2711	I 4/16/1999 AUT-AAC	Alex Hoffman Principal Viking Fire Protection Inc. 7885 North Fraser Way, Unit 140 Burnaby, BC V5J 5M7 Canada Canadian Automatic Sprinkler Association	IM 9/30/2004 AUT-AAC
Roland J. Huggins Principal American Fire Sprinkler Association, Inc. 12750 Merit Drive, Suite 350 Dallas, TX 75251 Alternate: Donald D. Becker	IM 10/10/1997 AUT-AAC	Sultan M. Javeri Principal SC Engineering 'La Rose Des Vents' 1, rue des Brulis Vendrest, 77440 France	IM 10/10/1997 AUT-AAC
Charles W. Ketner Principal National Automatic Sprinkler Fitters LU 669 Joint Apprenticeship & Training Committee 7050 Oakland Mills Road Columbia, MD 20732 United Assn. of Journeymen & Apprentices of the Plumbing & Pipe Fitting Industry	L 1/10/2008 AUT-AAC	Andrew Kim Principal National Research Council of Canada Institute for Research in Construction Montreal Road, M-59 Ottawa, ON K1A 0R6 Canada	RT 10/10/1997 AUT-AAC

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Garner A. Palenske Principal Aon/Schirmer Engineering Corporation 11770 Bernardo Plaza Court, Suite 116 San Diego, CA 92128	I 4/17/2002 AUT-AAC	J. William Sheppard Principal Sheppard & Associates, LLC 24756 Tudor Lane Franklin, MI 48025	SE 10/10/1997 AUT-AAC
Robert D. Spaulding Principal FM Global 1151 Boston-Providence Turnpike Norwood, MA 02062-9102 Alternate: David B. Fuller	I 9/30/2004 AUT-AAC	Douglas Paul Stultz Principal US Department of the Navy NAVFAC MIDLANT, Code CI41 9742 Maryland Avenue Building Z-140, Room 103 Norfolk, VA 23508	E 3/15/2007 AUT-AAC
Lynn K. Underwood Principal Axis US Property 303 West Madison Street, Suite 500 Chicago, IL 60606	I 10/10/1997 AUT-AAC	Donald D. Becker Alternate RJC & Associates, Inc. 130 West 9th Avenue, Suite 103 North Kansas City, MO 64116 American Fire Sprinkler Association Principal: Roland J. Huggins	IM 10/10/1997 AUT-AAC
Thomas C. Brown Alternate The RJA Group, Inc. Rolf Jensen & Associates, Inc. 14502 Greenview Drive, Suite 500 Laurel, MD 20708 Principal: Raymond A. Grill	SE 10/27/2005 AUT-AAC	David B. Fuller Alternate FM Global 1151 Boston Providence Turnpike PO Box 9102 Norwood, MA 02062-9102 Principal: Robert D. Spaulding	I 7/26/2007 AUT-AAC
Kenneth E. Isman Alternate National Fire Sprinkler Association, Inc. 40 Jon Barrett Road Patterson, NY 12563 Principal: Russell P. Fleming	M 10/10/1997 AUT-AAC	George E. Laverick Alternate Underwriters Laboratories Inc. 333 Pfingsten Road Northbrook, IL 60062-2096 Principal: Kerry M. Bell	RT 10/10/1997 AUT-AAC
Scott T. Martorano Alternate The Viking Corporation 210 North Industrial Park Road Hastings, MI 49058 Principal: Scott T. Franson	M 3/1/2011 AUT-AAC		

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Donato A. Pirro Alternate Electro Sistemas De Panama, S.A. Ave. Ernesto T. Lefevre Parque Lefevre Panama City, Panama NFPA Latin American Section Principal: Jose R. Baz	M 11/14/1997 AUT-AAC	J. Michael Thompson Alternate The Protection Engineering Group, PC 14900 Bogle Drive, Suite 200 Chantilly, VA 20151 Principal: John G. O'Neill	SE 4/17/2002 AUT-AAC
James B. Biggins Nonvoting Member Global Risk Consultants Corporation 15732 West Barr Road Manhattan, IL 60442-9012 TC on Hanging & Bracing of Water-Based Systems	SE 7/28/2006 AUT-AAC	Robert M. Gagnon Nonvoting Member Gagnon Engineering 2660 Daisy Road Woodbine, MD 21797 TC on Foam-Water Sprinklers	SE 7/16/2003 AUT-AAC
William E. Koffel Nonvoting Member Koffel Associates, Inc. 8815 Centre Park Drive, Suite 200 Columbia, MD 21045 Safety to Life Correlating Committee	SE 10/10/1997 AUT-AAC	Kenneth W. Linder Nonvoting Member Swiss Re 2 Waterside Crossing, Suite 200 Windsor, CT 06095 TC on Sprinkler System Discharge Criteria	I 10/10/1997 AUT-AAC
Joe W. Noble Nonvoting Member Noble Consulting Services, LLC 6325 South Jones Blvd., #400 Las Vegas, NV 89130 TC on Sprinkler System Installation Criteria	E 4/17/1998 AUT-AAC	Maurice M. Pilette Nonvoting Member Mechanical Designs Ltd. 19 Erie Drive PO Box 2188 Natick, MA 01760 TC on Residential Sprinkler Systems	SE 7/28/2006 AUT-AAC
Kenneth W. Wagoner Nonvoting Member Parsley Consulting Engineers 350 West 9th Avenue, Suite 206 Escondido, CA 92025-5053 TC on Private Water Supply Piping Systems	SE 03/02/2010 AUT-AAC	Chester W. Schirmer Member Emeritus Aon/Schirmer Engineering Corporation 40 Queens Court Pinehurst, NC 28374	I 10/10/1997 AUT-AAC
John J. Walsh Member Emeritus UA Joint Apprenticeship Committee Local 669 502 Kings Farm Blvd., #302 Rockville, MD 20850 United Assn. of Journeymen & Apprentices of the Plumbing & Pipe Fitting Industry	SE 1/1/1974 AUT-AAC	Matthew J. Klaus Staff Liaison National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7471	12/16/2010 AUT-AAC

Attachment B – A2012 TCC ROP
Meeting Minutes

Technical Correlating Committee on Automatic Sprinklers

ROP Meeting

March 29, 2011

Marriott Riverfront Hotel
Savannah, GA

DRAFT MEETING MINUTES

1. **Call to Order.** Chair Ed Budnick called the meeting at 8:30 AM.
2. **Self-Introductions of members and guests.** Members of the committee introduced themselves and reviewed the contact information. The meeting attendance list is attached to these minutes.
3. **Review of Distributed Meeting Materials.** Staff Liaison Matt Klaus provided an overview of the agenda materials that were sent to the committee and posted on the committee web page.
4. **Approval of A09-ROC Draft Meeting Minutes.** The minutes of the A06-ROC Meeting were reviewed and approved with a modification to Item #7 to state that the TC reports were presented by the TC Chairs.
5. **Review of Meeting Procedures and Revision Process.** Matt Klaus gave a presentation on the overall meeting guidelines and the NFPA Regulations Governing TCC operations.
6. **Actions on Technical Committee Reports.** The Chairs of each of the Technical Committees presented an overview of ROP committee actions for the TCC to consider and act on. The TCCs actions will be balloted and recorded in the ROP for NFPA 13, 13D, 13R and 24. NFPA 291 had no items for consideration.
7. **New Business**
 - a. Definition of “Sprinkler”- The TCC discussed the need for a revised definition of “sprinkler system” to address proposal that consider water mist systems as “sprinkler system”. There is no correlation issue, however the TC’s were encouraged to review their definitions for clarity and completeness.
 - b. Premixed Antifreeze Definition – The definitions for “Premixed Antifreeze Solution” differ in NFPA 13, NFPA 13D and NFPA 25. The TCC recommends that an inter-committee task group be established to come up with a single definition to be used in these documents.
 - c. Metrification Review – The TCC has decided to move forward with the metrification task groups logic for soft conversion in NFPA 13. The SSD task group of Bo Hjorth, Sultan Javeri and Larry Keeping has been expanded to

include TCC members Alex Hoffman, Russ Leavitt, Ray Grill and Donato Pirro. The task group will review Chapter 11 prior to the ROC meeting as a test case for the metrification of the entire document.

- d. FM Global Data Sheet Review – Task Group leader Russ Fleming presented the findings of the task group and it was determined that no further action was needed at this time. The task group was dissolved and TCC Chair Ed Budnick thanked Russ and his fellow task group members for their efforts.
 - e. NFPA 25 – ESFR Antifreeze Correlation Issue - The TCC reviewed a TIA prepared by a Task Group consisting of Roland Huggins and Scott Franson to correlate NFPA 13 and 25 in regards to permissible antifreeze solutions for use with ESFR sprinklers.
 - f. Supplemental Operating Procedures for NFPA 13 TC's- The TCC discussed the need for supplemental operating procedures for the TC's, specifically pertaining to the adequacy of technical substantiations for proposals and comments. NFPA staff will discuss the process for developing the SOP with the Standards Administration department, at which point the TCC may chose to develop a task group to prepare these procedures.
 - g. Copy Written Information – The TCC requests clarification from the Standards Administration Department regarding public proposals that reference test data that cannot be distributed to the committee. Providing documents for TC or TCC review at the meeting or at NFPA Headquarters in Quincy, MA does not afford the committees sufficient time to review the information. NFPA staff will review the issue internally and report back to the TCC.
 - h. Future Antifreeze Research – The TCC discussed potential topics for additional research on antifreeze usage in sprinkler systems. The TCC will recommend to the FPRF that a Task Group of the Sprinkler Research Advisory Council be formed to address and coordinate feedback to the Standards Council regarding needed research and associated developments regarding antifreeze usage. The NFPA 13 committees will help provide information to the FPRF Task Group.
 - i. It was brought to the attention of the TCC that the National Association of Corrosion Engineers is considering development of corrosion guidelines for fire protection piping, including for sprinkler systems. John O'Neill agreed to monitor the activity and report back to the TCC on any developments.
- 8. Assignments for ROC Meeting.** There were no specific ROC Meeting assignments for the TCC.
- 9. Next Meeting** – The TCC will most likely hold a conference call and web-based meeting in October/November following the ROC meetings. Date and Time TBD.
- 10. Adjournment.** The meeting adjourned at 3:30pm.

Attendees:

Edward Budnick, Chair
Matthew Klaus, Staff Liaison
Kerry Bell
Russell Fleming
Scott Franson
Michael Friedman
Raymond Grill
Luke Hilton
Alex Hoffman
Roland Huggins
Sultan Javeri
Andrew Kim
Russell Leavitt
John O'Neill
Garner Palenske
Douglas Stultz
Donato Pirro
James Biggins
William Koffel
Kenneth Linder
Joe Noble
Maurice Pilette

Attachment C – Standards Council
Update on Antifreeze

TO: Technical Committees on Automatic Sprinkler Systems

FROM: Linda Fuller

DATE: September 13, 2011

SUBJECT: Antifreeze

I am transmitting to you herewith the following action of the Standards Council (August 8-11, 2011):

At its March 2011 meeting, the standards Council issued several TIAs relating to ongoing review of the use of antifreeze in sprinkler systems. The extensive background and activities leading up to the development and issuance of these TIAs is set forth in the Council's decision issuing the TIAs and in decisions and minute items cited in that decision. See Standards Council Decision 11-5 (SC #11-3-3-e, 11-3-4-e and 11-3-5-d, March 1, 2011). The TIAs were developed by the responsible technical committees and the Council emphasized in its decision issuing the TIAs that, while the Council had initially taken action to address the antifreeze questions pending further technical committee consideration, the technical issues concerning the content of NFPA codes and standards are generally for the responsible consensus-based technical committees to determine.

In issuing the TIAs, the Council stressed, in the following terms, that the sprinkler committees' consideration of issues related to antifreeze was not an end:

In voting to issue these TIAs, the Council stresses that the sprinkler committees' consideration of issues related to antifreeze is not at an end. The sprinkler standards are in the Annual 2012 revision cycle, and that the content of the new TIAs will be considered as Proposals during the process. The Fire Protection Research Foundation report discussed areas where future research might be needed, as, for example, in the area of commercial applications. It is anticipated that further research will be conducted and information developed that will aid the sprinkler committees in their continuing consideration of issues raised by the use of antifreeze in sprinkler systems.

To aid the work of the sprinkler committees, and for its own information, the Council requested the sprinkler committees, representatives of the relevant sprinkler industries, the Fire Protection Research Foundation and others with relevant information to provide reports to the Council at its August 2011 meeting "identifying research needs, planned or ongoing research, and any other activities or developments related to the use of antifreeze in sprinkler systems."

In response to the Council's request, the Council has received a single report from the Chair of the Technical Correlating Committee (TCC) on Sprinklers on potential research paths that may need to be taken as it pertains to antifreeze usage in sprinkler systems. The Council also heard an oral presentation from Executive Director of the Fire Protection Research Foundation on her efforts to explore potential research paths with potential funders. Disappointingly, the Council received no submissions from other interested parties. Nevertheless, it was never the Council's intention to itself evaluate or analyze the information that it was seeking. Rather it was attempting to assist the

interested parties in maintaining their focus on and commitment to the ongoing task of providing the responsible NFPA technical committees with research and data to support effective standards development. While no action of the Council is required at this time, the Council expects the interested parties will continue investigation and research aimed at ensuring the safety of freeze protection in sprinkler systems and the incorporation of such new information as may be developed into subsequent editions of the sprinkler standards.

As suggested above, it is not the Council's role to identify all of the gaps in research that may exist and it has not undertaken to evaluate or analyze all the information presented or to construct any research plan. While some of the research being discussed may be aimed at showing that the antifreeze limits are more stringent than necessary, attention should also be maintained on identifying any additional research needed to ensure the adequacy of all the current antifreeze limits. In this regard, and without suggesting that other avenues of research may also be advisable, the Council notes that the TCC Chair's report and from the previously submitted research reports prepared for the Fire Protection Research Foundation point to at least one gap that needs to be filled. Specifically, it appears that the data that has been generated in the recent research on residential sprinklers has been extrapolated to standard spray sprinklers (i.e., commercial sprinklers). Standard spray sprinklers have different characteristics than residential sprinklers and research appears to be necessary to verify that the extrapolation of the data obtained on residential sprinklers is either valid for standard spray sprinklers or needs adjustment.

The Council is requesting that interested parties report back to the Council on or about March, 2012. Council meeting on plans and progress toward filling the gap identified above as well as on other research activities that are being considered, planned or undertaken.

Council Member Roland Huggins recused himself from the vote on this issue.

- c: D. Berry, M. Brodoff, A. Cronin, M. Klaus, P. Foley, J. Goyette, E. Carroll
- TCC on Automatic Sprinkler Systems (AUT-AAC)
- TC on Residential Sprinkler Systems (AUT-RSS)
- TC on Sprinkler System Installation Criteria (AUT-SSI)
- TC on Inspection, Testing, and Maintenance of Water-Based Systems (INM-AAA)
- NFPA Standards Council
- Interested parties (individuals providing comments)