

***Technical Correlating Committee on
Automatic Sprinkler Systems***

MEMORANDUM

DATE: March 20, 2011

TO: Principal and Alternate Members of the Technical Correlating Committee on Automatic Sprinkler Systems

FROM: Matt Klaus, Senior Fire Protection Engineer/NFPA Staff Liaison

SUBJECT: **AUT-AAC AGENDA PACKAGE – A2012 ROP Meeting**

Enclosed is the agenda for the Report on Proposals (ROP) meeting for NFPA 13, *Standard for the Installation of Sprinkler Systems*. NFPA 13 has entered the Annual 2012 revision cycle and will produce a 2013 Edition. All TC Ballots and TC ROP Meeting Agendas including public proposals can be found at www.nfpa.org/13.

For administrative questions, please feel free to contact Joanne Goyette at (617) 984-7950. For technical questions, please feel free to contact Matt Klaus at (617) 984-7448. You can also reach either of us via e-mail at JGoyette@nfpa.org or MKlaus@nfpa.org. We look forward to meeting everyone in Savannah, GA at The Savannah Riverfront Marriott.

Technical Correlating Committee on Automatic Sprinklers

ROP Meeting

March 29-30, 2011

Marriott Riverfront Hotel
Savannah, GA

AGENDA

1. **Call to Order (8:30am) (Budnick).**
2. **Self-Introductions of members and guests (Attachment A).**
3. **Review of Distributed Meeting Materials (Matt Klaus).**
4. **Approval of A09-ROC Draft Meeting Minutes (Budnick) (Attachment B).**
5. **Review of Meeting Procedures and Revision Process (Matt Klaus)**
6. **Actions on Technical Committee Reports (Budnick).**

PRI – TC Chair Kenneth Wagoner
HBS – TC Chair James Biggins
FOW – TC Chair Robert Gagnon
SSD – TC Chair Kenneth Linder
SSI – TC Chair Joe Noble
RSS – TC Chair Maurice Pilette

7. **New Business**
 - a. Definition of “Sprinkler” (See Attachment C)
 - b. Metrification Review (See Attachment D)
 - c. FM Global Data Sheet Review (See Attachment E)
 - d. NFPA 25 – ESFR Antifreeze Correlation Issue
8. **Assignments for ROC Meeting.**
9. **Next Meeting – A2012 ROC Conference Call - TBD**
10. **Adjournment.**

Attachment A – Technical Correlating
Committee Roster

Address List No Phone

3/22/2011
Matthew J. Klaus
AUT-AAC

Automatic Sprinkler Systems

Edward K. Budnick Chair Hughes Associates, Inc. 3610 Commerce Drive, Suite 817 Baltimore, MD 21227-1652	SE 10/10/1997 AUT-AAC	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

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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	Russell B. Leavitt Principal Telgian Corporation 2615 South Industrial Park Avenue Tempe, AZ 85282 Trinity Health Alternate: Ernest (Russ) Mower	U 10/28/2008 AUT-AAC
John G. O'Neill Principal The Protection Engineering Group, PC 14900 Bogle Drive, Suite 200 Chantilly, VA 20151 Alternate: J. Michael Thompson	SE 1/1/1977 AUT-AAC	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

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Ernest (Russ) Mower Alternate Telgian Corporation 5500 Democracy Drive, Suite 160 Plano, TX 75024 Trinity Health Principal: Russell B. Leavitt	U 10/28/2008 AUT-AAC	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. 6522 Meadowridge Road, Suite 101 Elkridge, MD 21075-6191 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 8885 West Hickam Avenue Las Vegas, NV 89129 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		

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John J. Walsh	SE 1/1/1974	Matthew J. Klaus	12/16/2010
Member Emeritus	AUT-AAC	Staff Liaison	AUT-AAC
UA Joint Apprenticeship Committee Local 669 502 Kings Farm Blvd., #302 Rockville, MD 20850		National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7471	

Attachment B – A2009 TCC ROC Meeting
Minutes

Technical Correlating Committee on Automatic Sprinklers

ROC Meeting

December 9, 2008

11:00 AM EST

Conference Call and Web Meeting

Draft Meeting Minutes

1. **Call to Order.** Meeting was called to order by Chair Ed Budnick.
2. **Self-Introductions of members and guests.** Committee members and guests were identified by either voice or on meeting web site.
3. **Review of Distributed Meeting Materials.** Jim Lake reviewed the distributed materials. Including correspondence from No Burn, Inc. regarding Proposal 13-501 as well as a report by the Task Group on the Correlation of NFPA 16 and 13. The report from the TG made no request for further action by the TCC.
4. **Approval of A09-ROP Draft Meeting Minutes.** Motion to accept the TCC-ROP Minutes was made by Mike Friedman and seconded by Sultan Javeri. The minutes were approved without revision.
5. **Review of Meeting Procedures and Revision Process.** Jim Lake reviewed the procedures and responsibilities of the TCC at the ROC stage as well as the schedule for the rest of the A09 revision cycle.
6. **Actions on Technical Committee Reports.** The chairs of each of the task groups reviewed the actions of their committees. Actions by the TCC will be put to letter ballot and will be recorded in the Report on Comments.

During this part of the meeting Bill Kish and Ron Crawford of No Burn, Inc. were given the opportunity to present information to the committee supporting their request for the TCC to generate a TCC Comment to Reject accepted Proposal 13-501.

After the discussion there was no motion made to take any action to generate a TCC Comment on the proposal.

Roland Huggins recused himself from the discussion during this portion of the meeting.

7. **New Business.** No new business was brought before the committee.

8. **Next Meeting.** The next scheduled meeting of the TCC will be the ROP meeting for the A13 revision cycle.

9. **Adjournment.** Meeting adjourned at 1:45pm.

TCC ROC Meeting Attendance

NAME

Principals

Ed Budnick, Chair
Kerry Bell
Russ Fleming
Michael Friedman
Ray Grill
Alex Hoffman
Roland Huggins
Sultan Javeri
Andrew Kim
Russ Leavitt
John O'Neill
Bill Sheppard
Robert Spaulding
Doug Stultz
Lynn Underwood

Alternates

Don Becker (Huggins)
Tom Brown (Grill)
David Fuller (Spaulding)
Kenneth Isman (Fleming)
Russ Mower (Leavitt)
Garner Palenski (Schirmer)
Donato Pirro (Baz)

TC Chairs

Antonio Braga
Robert Gagnon
Kenneth Linder
Joe Noble

Guests

Bill Kish
Ron Crawford

James Lake, NFPA Staff, Secretary

REPRESENTING

Hughes Associates
Underwriters Laboratories
NFSA
Friedman Consulting
Arup Fire
CASA
AFSA
SC Engineering
NRC Canada
Trinity Health
The Protection Engineering Group
General Motors Corp.
FM Global
US Department of the Navy
Axis US Property

AFSA
The RJA Group
FM Global
NFSA
Trinity Health
Schirmer Engineering Corp.
NFPA Latin American Section

TC on Hanging and Bracing
TC on Foam-Water Sprinklers
TC on Sprinkler System Discharge Criteria
TC on Sprinkler System Installation

No Burn Inc.
No Burn Inc.

NFPA

Sign-In Sheet
Automatic Sprinkler Systems

NFPA 13, 24, 291, 13D, and 13R--AUT-AAC
ROC Live Meeting Web Conference, December 9, 2008 11:00 AM--4:00 PM Eastern Time
Baltimore, MD

Name	Office	Organization	Signature	Staying at hotel				
				1	2	3	4	5
Budnick, Edward	✓ Chair	Hughes Associates, Inc.						
Lake, James	✓ Secretary (Staff-	National Fire Protection Association						
Baz, Jose	Principal	NFPA Latin American Section						
Bell, Kerry	✓ Principal	Underwriters Laboratories Inc.						
Fleming, Russell	✓ Principal	National Fire Sprinkler Association						
Franson, Scott	✓ Principal	The Viking Corporation						
Friedman, Michael	Principal	Friedman Consulting, Inc.						
Grill, Raymond	✓ Principal	Arup Fire						
Hilton, Luke	Principal	Liberty Mutual Property						
Hoffman, Alex	✓ Principal	Canadian Automatic Sprinkler Association						
Huggins, Roland	Principal	American Fire Sprinkler Association						
Javeri, Sultan	Principal	SC Engineering						
Ketner, Charles	Principal	United Assn. of Journeymen & Apprentices						
Kim, Andrew	✓ Principal	National Research Council of Canada						
Leavitt, Russell	✓ Principal	Trinity Health						
O'Neill, John	✓ Principal	The Protection Engineering Group, PC						
Schirmer, Chester	Principal	Schirmer Engineering Corporation						
Sheppard, J.	✓ Principal	General Motors Corporation						
Spaulding, Robert	Principal	FM Global						
Stultz, Douglas	✓ Principal	US Department of the Navy						
Underwood, Lynn	✓ Principal	Axis US Property						

Sign-In Sheet
Automatic Sprinkler Systems

NFPA 13, 24, 291, 13D, and 13R--AUT-AAC
ROC Live Meeting Web Conference, December 9, 2008 11:00 AM--4:00 PM Eastern Time
Baltimore, MD

Name	Office	Organization	Signature	Staying at hotel				
				1	2	3	4	5
Becker, Donald	Alternate	American Fire Sprinkler Association						
Brown, Thomas	Alternate	The RJA Group, Inc.						
Fuller, David	Alternate	FM Global						
Isman, Kenneth	Alternate	National Fire Sprinkler Association						
Laverick, George	Alternate	Underwriters Laboratories Inc.						
Mower, Ernest (Russ)	Alternate	Trinity Health						
Palenske, Garner	Alternate	Schirmer Engineering Corporation						
Pirro, Donato	Alternate	NFPA Latin American Section						
Thompson, J.	Alternate	The Protection Engineering Group, PC						
Biggins, James	Nonvoting Member	TC on Private Water Supply Piping						
Braga, Antonio	Nonvoting Member	TC on Hanging & Bracing of Water-Based						
Gagnon, Robert	Nonvoting Member	TC on Foam-Water Sprinklers						
Koffel, William	Nonvoting Member	Safety to Life Correlating Committee						
Linder, Kenneth	Nonvoting Member	TC on Sprinkler System Discharge Criteria						
Noble, Joe	Nonvoting Member	TC on Sprinkler System Installation						
Pilette, Maurice	Nonvoting Member	TC on Residential Sprinkler Systems						
Walsh, John	Member Emeritus	United Assn. of Journeymen & Apprentices						
Lake, James	Staff Liaison	National Fire Protection Association						

Attachment C – Sprinkler System Definition

Technical Correlating Committee on Automatic Sprinklers

ROP Meeting

Attachment C – Sprinkler System Definition

During the NFPA 13 ROP Meetings, multiple technical committees reviewed proposals from a water mist system manufacturer to include water mist systems into NFPA 13, NFPA 13R and NFPA 13D. A representative of the manufacturing firm presented to one of the TC's the definition of "Sprinkler System" and stated that his product meets the definition of a sprinkler system and should be included in NFPA 13, NFPA 13R and NFPA 13D. TCC Member Ken Isman (NFSA) presented the following information during the TCC Conference Call on February 17, 2011 in regards to this issue (excerpt from an email from Ken Isman):

The definitions in NFPA 13, NFPA 13R and NFPA 13D are insufficient to differentiate between sprinkler systems, fixed water spray systems, and water mist systems. One could even argue that the definitions are insufficient to distinguish between sprinkler systems and foam systems installed under NFPA 11 or NFPA 16.

There are many ways that the problem could potentially be fixed. One way would be to have the TCC generate a Committee Proposal for this cycle of NFPA 13, NFPA 13D and NFPA 13R. I'm not sure if TCC's can generate committee proposals, but I think they can. My suggestion would be that we develop a new definition for "Sprinkler" since (believe it or not) we actually don't have a definition for that simple device, as follows:

1. In NFPA 13, it would be a new section 3.6.1 (with existing section 3.6.1 renumbered to 3.6.1.1) "3.6.1 Sprinkler. A device that discharges water to cover a specified floor area that creates water droplets over a wide range of large, medium and small sizes to penetrate fire plumes (aiding in fire suppression), pre-wet combustibles adjacent to the fire (aiding in fire control), and provide cooling at the ceiling (helping to prevent structural members from burning or collapse)."
2. Insert the same definition of "Sprinkler" in section 3.3.8.3 of NFPA 13R.
3. Insert the same definition of "Sprinkler" in section 3.3.8.3 of NFPA 13D.

This would help to differentiate sprinkler systems from other water-based systems and since it is a global decision amongst the sprinkler documents, I think that it is appropriate for it to come from the TCC.

Attachment D – Metrification Task Group Report

NFPA AUT-SSD
Att: Matt Klaus

Metric conversion issues within NFPA 13

Matt,

You wanted a short memo on the general principals to be used for the metric conversion work within NFPA 13. The task group has discussed and agreed on the following list:

1. Correctness. No discussion here, of course everything has to more or less correct. Most of the more severe mistakes have probably already been picked up during the last cycles, but there are a couple of obvious mistakes still remaining. E.g

8.11.2..2.2 it is not 12,9m2, but rather 12,0m2.

2. Accuracy. In general, the level of certainty in sprinkler matters is seldom as high as some of the detailed numbers withing the standard seem to imply. It seems quite ridiculous to use decimals of mm, i.e. the width of a hair. If we look at the European CEN-standard for sprinkler installations, EN 12845, it never uses more than 1 decimal for meter (so 1,0 m or 0,1m, never 1,00 or 0,10). When using millimeters (for shorter distances like sprinkler to ceiling measurements) it is 300 mm or 450 mm, not 300,0 or 450,00. For pressure it is 0,5 bars, not 0,50 or 0,500, and for density it is 15,0 mm/min, not 15,00. And for flow of water, the use of liter never comes with any decimals in sprinkler designs (except in hydraulic calculation print-outs – see below).

We suggest always using 1 decimal except for millimeters and liters where no decimals at all should be used.

3. Hydraulic calculations. Use a separate table for the (higher) level of accuracy to be used in hydraulic calculations.

E.g: In hydraulic calculations one should use internal pipe diameters to 1 decimal point, to be comparable with the US/Imperial values to 3 decimal points of an inch (ie. ID of 1" schedule 40 pipe = 1.049" = 26.6 mm, ID of 4" Schedule 10 = 4.260 " = 108.2 mm).

4. Rounding. Here we should aim for "soft conversions". The SI-system is based on the multiples of 10. In most cases this will point the user to even "full" numbers (1,0 m, not 1,1 m – or, in the case of the smaller unit millimeter, 100 mm and 150 mm instead of 106 mm and 152 mm). In most cases the "correct" rounding during conversion will be based on simple mathematical rules. If the last figure is 4 or less, round downward, if it is 6 or greater round upwards. If the last figure is 5, round upwards if the next to last figure is even – 2,4,6 or 8 – and downwards if the next to last figure is uneven – 1,3,5,7 or 9.

However, in the case of fire prevention issues, this mathematical formula may be in conflict with the interest of safety. The minimum pressure found by strict conversion of 50 psi is 3,45 bar. Using the correct mathematical soft conversion, and keeping accuracy at one decimal, we would end up with 3,4 bar. But putting safety first, 3,5 bar would be better. Here we need to make a decision.

We believe that the test results behind all the numbers used are not that accurate to begin with and therefore a strict mathematical conversion would be easiest in the long run. But if one is willing to put some effort into evaluating each case it can of course be solved also over time.

It will be worth noting the text inserted on this issue in the new FM Global Data sheet 2-0, under the Scope:

" Note that many metric values provided in this data sheet are not based strictly on mathematical conversion, but rather on "realistic" and "design-desired" values."

Note: when converting bulb temperatures, hard conversion is to be preferred. 68, 93 and 141°C are very well known numbers, with no need to "soften" into 70, 90 or 140°C.

5. Use of nominal values. For pipe sizes, uses the following table, with the exception of the 1 ¾" (45 mm) pipe (since it is not used for sprinkler purposes.

TABLE 7
Piping Equivalents

¾ in. = 6 mm	1½ in. = 45 mm	8 in. = 200 mm
¾ in. = 10 mm	2 in. = 50 mm	10 in. = 250 mm
¾ in. = 15 mm	2½ in. = 65 mm	12 in. = 300 mm
¾ in. = 20 mm	3 in. = 80 mm	14 in. = 350 mm
1 in. = 25 mm	3½ in. = 90 mm	16 in. = 400 mm
1½ in. = 32 mm	4 in. = 100 mm	18 in. = 450 mm
1½ in. = 40 mm	5 in. = 125 mm	20 in. = 500 mm
	6 in. = 150 mm	24 in. = 600 mm

6. Bar vs Pa. On this particular issue the task group stands divided. The European side wants to use bar for pressure, even though the strict SI-unit would be Pa. Our Canadian member wants to use Pa. In the European sprinkler standard bar is used and sometimes have kPa (= 1000 Pa) within brackets. In the Canadian standards kPa is used. There are arguments for both points of view and it all boils down to which market the NFPA standards are aiming for.

7. Non-equivalent SI-units. In some cases we believe NFPA 13 will do as well without any attempts of metrification. There is no point in converting American hanger sizes etc. If someone in a "metric area" will in fact be using American hangers – then they will certainly be supplied by an American manufacturer as well. And if they try to convert sizes into metrically manufactured rods and things, then hopefully rounding will be done by the "safety method".

Best regards

Bo Hjorth
Nacka 2011-02-02

Attachment E - FM Data Sheet Task Group
Report

TO: Ed Budnick, Chair, NFPA Technical Correlating Committee on Automatic Sprinklers

FROM: Russ Fleming, Chair of Task Group to Evaluate FM Data Sprinkler Sheets

DATE: February 8, 2011

The task group charged with providing advice to the TCC re. the new FM Global sprinkler Data Sheets met via teleconference on February 7, 2011. Participating in the meeting were task group members Kerry Bell, Scott Franson, Bill Sheppard, and Russ Fleming. Ken Isman of NFSA, who had recently conducted a seminar on the subject, joined the meeting as a guest.

As a first order of business, it was pointed out that revised versions of Data Sheets 2-0 on Sprinklers and 8-9 on Storage had been released by FM Global the previous week. Two of the most controversial items, the lack of any restriction on system size and the requirement that wet system piping be pitched, were addressed in the revisions. A cap of 60,000 sq ft had been placed on system size and the pitching requirement was eliminated for wet systems.

As a result of its discussions, the task group offers the following views to the TCC:

1. The FM sprinkler data sheets have essentially become a potential competitor of the NFPA sprinkler standards. Since they are no longer based on the NFPA consensus standards, there is no attempt at basic compatibility.
2. The TCC should not over-react to the issuance of these new standards. As evidenced by the recent revisions, they are still in a state of flux. Even when stabilized, it should be recognized that they have been developed to meet the special needs of an insurer and its insureds and are not consensus standards.
3. With regard to perceived competition, the need to "level the playing field" is being addressed to a large extent by the proposals coming out of the NFPA 13 Discharge Criteria Committee's Storage Task Group. This group is proposing a mechanism whereby the number of sprinklers required to be included in a sprinkler system design could be reduced for certain types of sprinklers.
4. The task group is aware of only one direct conflict between the two sets of standards, i.e. a situation in which it is impossible to comply with the more rigorous provisions of one or the other. This involves deflector orientation below a sloped ceiling or roof. While NFPA mandates that the deflector align with the ceiling for slopes exceeding 2 in 12 (about 9°), the FM standard requires that the deflector be parallel to the floor when the slope exceeds an angle of 5°. FM Global should be asked for the data behind this requirement. Kerry Bell agreed to try to have some XL Gaps data released to the committee relative to testing under a 2.4 in 12 ceiling slope.
5. FM Global should be encouraged to submit proposed changes to NFPA 13 in areas of disagreement, with appropriate technical substantiation and supporting data.

Respectfully submitted,

Russ Fleming, Task Group Chair