

MINUTES
FIRE APPARATUS MANUFACTURERS' ASSOCIATION
TECHNICAL COMMITTEE MEETING
APRIL 23, 2015
INDIANAPOLIS CONVENTION CENTER, INDIANAPOLIS, IN

Member Meeting Sponsors: H.O. Bostrom Company, Sutphen Corporation and Waterous Company
Corporate Sponsor: PennWell Fire Group

Call to Order – by Wes Chestnut at 7:47 a.m.

Proof of Notice – Notice of this meeting was provided to all Technical Committee representatives and FAMA members on February 24, 2015, via email.

Roll Call – A quorum was declared with 60 member companies present at the start of the meeting. [See attendance and sign-in sheets attached to these minutes.]

Roger Lackore thanked Damon Lewis for his contributions during his role as co-chair and welcomed Wes Chestnut who now serves in that role.

Antitrust Guidelines and Non-Discrimination Policy – Legal Counsel Jim Juneau stressed that it is FAMA's policy to abide by the antitrust laws of the United States and the strict non-discrimination policy at all meetings of the association.

Recognition and appreciation was provided to meeting sponsors, H.O. Bostrom Company, Sutphen Corporation, Waterous Company, and corporate sponsor PennWell Fire Group

W. Chestnut provided special recognition and appreciation to Karen Burnham for her many years of help and support to the committee. Sonya Kelly was introduced and welcomed as Business Manager for FAMA who will assist with the committee going forward.

Review/Enter Minutes – After discussion and upon motion duly made and seconded, it was:

VOTED: That the minutes of the August 14, 2014 Technical Committee Meeting (Dallas, TX) are approved and be entered into the records of the association.

Welcome /Association Update – President Phil Gerace welcomed all in attendance and extended his thanks to member company representatives for their support by providing service time to the committee. Subcommittees are critical to FAMA's ability to provide valuable benefit to the fire service and member companies.

P. Gerace expressed special thanks and recognition for the great work towards the Apparatus Safety Guide, FAMA Forum articles, and FDIC International/FAMA Showcase event.

A brief recap of FAMA activities year to date included the success of the 2015 Spring Meeting, Hill Day/CFSI with special focus on AFG and SAFER Grants, and the new Board Structure.

Welcome to FDIC – Chris Mc Loone, associate editor of *Fire Apparatus & Emergency Equipment* magazine, welcomed FAMA member representatives to the FDIC. On behalf of PennWell Fire Group and FDIC, he thanked attendees for their support, and wished all a successful trade show experience. He also expressed appreciation for the FAMA Forum articles. As a firefighter, C. McLoone extended additional appreciation to member companies for what they do to elevate safety within the fire service.

New Business: Chairman's Award – Congratulations to Doug Miller of Task Force Tips, the 2014 Technical Committee Chairman's Award recipient. D. Miller was honored for his ongoing commitment and dedication of time to the committee.

Update: Other FAMA Tech Initiatives – R. Lackore reviewed the Technical Committee Mission Statement and the current list of subcommittee chairs and co-chairs. He encouraged subcommittees to utilize Basecamp for all communications. Other matters addressed included:

Some of the FAMA graphical symbols are now considered as standard, and the white paper has gained international recognition through reference in the CEN TS 15989.

NFPA 1901 ballot passed with one NITMAM (Notice of Intent to Make a Motion). A vote will take place in June at the Annual NFPA Meeting. The NFPA 1901 standard revisions are delayed due to NITMAM.

NFPA 1906 ballot passed; updates to the FAMA NFPA White Paper can be made.

NFPA 414 (ARFF Standard) revisions are in process with the second draft meeting scheduled for July 27-30, 2015. The opportunity for public comments will close May 15, 2015.

NFPA 1500 current edition 2013 is open for public comment until July 16, 2015. The next revision cycle is 2017.

The second edition of the Fire Apparatus Safety Guide is now available.

EPA announced Future Regulations proposed Phase 2 greenhouse-gas emissions rule for medium and heavy-duty vehicles has been delayed until June. Changes are focused primarily on the class-A trucks, with minimal expected impact on vocational vehicles.

R. Lackore thanked FAMA member representatives for their support of the FDSOA with presentations and speakers. In preparation for the 2016 event, a planning session was held Wednesday, April 22nd. To increase attendance, the FDSOA is moving the 2016 symposium to Scottsdale, AZ (January 17-20).

CTIF is working with FAMA to develop a proposed global ISO standard for Heavy Truck Alternative Fuels Labeling.

The planned FAMA Forum article topics and schedule for the balance of the year were reviewed.

R. Lackore reviewed the plans for the Fire Apparatus Selection Guide and asked for volunteers to assist in the development and writing of white papers with their subcommittees. Potential topics follow:

NFPA Exceptions	Line Voltage Power Sources
Bumper Extensions	Corrosion Prevention
Cab Configuration	Hose Restraint Systems
Truck Size	Hose Bed Capacity Calculator
Apparatus Terminology	Aerial Devices
Aux Braking Systems	Seats and Seating
Exhaust Systems	Foam Systems
Apparatus Performance	Winches and Receivers
Multiplex vs Hard Wire Electrical	

NOTE: White papers are not to be manufacturer specific and should apply to all fire departments to assist in their purchase process.

There are currently four white papers in process:

Pump Selection Guide
Apparatus Safety Training
Weight and Cube Calculator Update
NFPA 1901/1906 Updates – The Fire Apparatus Improvement Cycle document authored by Chief Jeff Piechura needs to be updated. An update provides the potential to include other significant changes outside NFPA.

R. Lackore expressed his appreciation to D. Miller for the development of the Pump Selection Guide.

Subcommittee chairs were asked to provide a brief summary of their pending white paper topics, authors and schedules.

Aerial/Quint Subcommittee – John Brady provided a brief description on the subcommittee’s planned white paper.

Ambulance Subcommittee – Steve Rowland described a homeland security white paper for ambulance and provided coverage regarding the inconsistency of the current three standards: KKK, NFPA 1917 and CASA (Committee of Ambulance Services). This topic is a potential presentation for FDSOA.

ARFF Subcommittee – Marty Huffman provided an update regarding the pending ARFF Purchasing Guide is on hold until the new standards are finalized. The subcommittee’s white paper topic is to be determined.

Body Subcommittee – no report available.

Chassis Subcommittee – According to Tim Johnson the subcommittee’s white paper topic is to be determined.

Electrical Subcommittee – John Doperalski described a proposed Purchasing Guide topic covering the relationship between engine, PTO and another item. The white paper topic is not finalized.

Foam Subcommittee – Gregg Geske reported the subcommittee is working to develop a white paper topic.

Pumps and Plumbing Subcommittee – Doug Miller reported the subcommittee has completed an initial draft Pump Selection Guide. Final revisions are on hold for review pending 1901 and 1906 updates.

Tech-Ed – Dan Veselsky reported the subcommittee is building a library on the website to hold the whitepapers.

New Business – NFPA 1911 is currently in the revision process. The next meeting is May 13-15 in San Antonio, TX.

Attendees were released to subcommittee breakouts after the meeting adjourned.

Adjournment – With no further business to come before this meeting, upon motion duly made and seconded and no further discussion, it was

VOTED: To adjourn at 8:43 a.m.

A true copy, attest:

Sonya Kelly

Attachments:

Member Company Attendance
Sign-In Sheets

Subcommittee Reports to the Full Committee (official notes for minutes to be provided by subcommittee chairs in Basecamp or via email)

A. **Aerial/Quint** – No report available.

B. **ARFF** – No report available.

C. **Ambulance** – No report available.

D. **Body** – *(group lead by Dan Veselsky & Lisa Barwick due to absence of Body Chair & Co-Chair)*

Discussion Topics:

- Industry challenge discussed surrounding the new NFPA requirement of the “yellow line” needed on the top of bodies to designate walking areas.
 - Tape?
 - Paint?
 - How do you place the line on diamond plate material?
- Discussed various white paper topics for the Body Subcommittee.
 - Target for white paper completion by Fall FAMA meeting agreed upon.
 - The following member representatives volunteered to produce white papers: David Scuito, David Knobbe, Dave Ver Steeg, Curt Ignacio
- Topic and owners of that topic are captured below:
 - Winches and Receivers - Steve Stein of Power-Packer will talk to Warn about this topic
 - Hose Restraint Systems - Dave Scuito of Power-Packer
 - Bed Capacity Calculator - Bruce Whitehouse will work with Doug Miller on this topic
 - Riding Areas (1906) – Wildland - Dave Knobbe of Danko
 - Corrosion Prevention - Wayde Kirvida of Custom Fire and Lou Milanovich of PPG (Bruce Whitehouse will let Lou know)
 - Bumper Extensions - Dave VerSteeg of Spartan
 - Truck Size - Curtis Ignacio of Marion

E. **Chassis** – **by Tim Johnson and Chris Crowel.**

- Basecamp – Passed sign-up sheet for new members to be added to chassis subcommittee project on basecamp.
- White Papers/Purchasing Guides
 - White papers assist departments in the selection of technologies and apparatus specifications
 - Chassis Sub Committee will focus on 3 key areas:
 - Apparatus Performance
 - Auxiliary Braking Systems
 - Seats
- Members interested in authoring documents or participating on teams are encouraged to notify Tim and Chris.
 - Passed out copies of Proposed NFPA 1901 standard
 - Awareness
- Greenhouse Gas (GHG) Overview
 - Expect that proposed rule is expected to be published in Spring/Summer 2015

- Expect a 30-60 day comment period
- Final Rule is expected to be published in Spring 2016
- FAMA Forum Article in May issue of Fire Apparatus Magazine provides additional detail.

F. Electrical – by John Doperalski

The FAMA Electrical Sub-Committee reviewed topics for potential white papers that would be included in a FAMA End-User Purchasing Guide. The basis for these topics is *“what would we like end-users to know when specifying or purchasing a new apparatus”*.

The following potential topics were discussed

- Charts containing electrical components vs load
- Load calculators, both AC and DC
- Explanation of startup current of inductive type loads for total load calculations
- Types of power sources available, such as hyd generators, diesel and gas gens, PTO gens, inverters, etc. with a list of pros and cons for usage of each
- Electrical items to consider when undertaking a retrofit or refurb vs. buying a new apparatus
- A description of multiplexing vs hard wiring
- An explanation of available shore power systems
- An explanation of available battery types and when to use numerous battery quantities
- A guide that would reference pertinent NFPA 1901, 1906, etc. chapters for various topics, such as warning light reqs, work light reqs, etc. (we do not need to re-write published information)
- An explanation of LED lights: 12VDC vs 120VAC and amperage ratings
- An explanation of 24VDC vs 12VDC, 240VAC vs 120VAC, 1 phase vs 3 phase
- New available technologies such as: remote diagnostics, remote troubleshooting, maintenance data recording, cameras, monitors, driver alert systems, USB phone power ports, etc.
- An explanation of lighting terminologies, i.e., lumens vs candlepower vs watts

A request was made for volunteers to write or supply content for a white paper.

G. Foam – No report available.

H. Pumps & Plumbing – by Doug Miller.

The subcommittee discussed how the current NFPA 1901 standard does not have testing information for pumps larger than 4000 GPM. A white paper was proposed to give a brief history of larger capacity pumps, as well as present testing points and information for the larger pumps as an interim until the next revision of NFPA 1901, where these testing points and criteria can be proposed for inclusion into the standard. The group has the review and refinement of this document on our agenda for our breakout session in Atlanta.

I. Tech-Ed – No report available.

**FAMA Technical Committee Meeting
April 23, 2015
Indianapolis, IN**

Member Company Attendance
[based on meeting registration/sign-in at meeting]

Akron Brass Company	KME Fire Apparatus
AMDOR, Inc.	Kochek Company Inc.
ARP Plastic Fabricating	Marion Body Works, Inc.
Austin Hardware & Supply	Metalfab Ltd.
Boise Mobile Equipment, Inc.	Oshkosh Corporation
Bulldog Fire Apparatus	Performance Advantage Co.
C.E. Niehoff & Company	Pierce Manufacturing Inc.
Cast Products Inc.	Power-Packer North America
Code 3 Inc.	PyroLance North America LLC
Cummins Inc.	Rescue 1/PL Custom
Custom Fire Apparatus Inc.	ROM Corporation
Danko Emergency Equipment Co.	Rosenbauer America, LLC
Detroit Diesel Corporation	Seagrave Fire Apparatus LLC
E.J. Metals	Seats, Inc.
Eagle Compressors, Inc.	Smart Power Systems
Elkhart Brass Mfg. Co., Inc.	Smeal Fire Apparatus Co.
E-ONE	Spartan ERV
Ferno-Washington, Inc.	Spartan Motors USA
Ferrara Fire Apparatus, Inc.	Stability Dynamics / Team Eagle
Fire Research Corporation	Sutphen Corporation
Fort Garry Fire Trucks	Task Force Tips, Inc.
Fouts Bros Fire Equipment	Telma Retarder Inc.
Freightliner Trucks	Trident Emergency Products LLC
H.O. Bostrom Company	Truck Cab Manufacturers Inc
Hale Products Inc.	USSC Group Valor Seating
Hansen International, Inc.	W.S.Darley & Company
Harrison Hydra-Gen	Waterous Company
HMA LLC	Whelen Engineering Co.Inc.
IMMI	Williams Fire & Hazard Control Inc.
Intec Video Systems, Inc.	Ziamatic Corp.