

Thank You to Our Meeting Sponsors









2018 - FAMA Fall Meeting

TECHNICAL COMMITTEE

Roger Lackore &
Doug Miller



Subcommittee Leaders

Aerial/Quint

Jim Salmi (E-One) John Brady (KME)





ARFF

Paul Powell (Rosenbauer) Sarah Peck (Akron Brass)





Ambulance

Steve Rowland (Demers) Mike Franckowiak (Akron Brass)





Body

John House II (Danko)



Electrical

John Doperalski (Harrison) Peter Luhrs (SafeFleet)





Foam

Gregg Geske (Waterous) Mike Dupay (Fire Research)





Pumps & Plumbing

Pete Lauffenburger (Akron) Mike Sulmone (Trident)





Chassis

Tim Johnson (KME)
Chris Crowel (Cummins)







FDSOA Support



- " 2019 Symposium Location . Orlando
 - " January 21-23
- "Buyers Guide and FAMA Resource Quick Guide





FDSOA Support

Topic	Presenter
Multiplexing	IDEX, SafeFleet
Electrical Power Management	SafeFleet, KME
Spec'ing Apparatus to Prevent Corrosion	International, Spartan
Engine Emissions Troubleshooting	Cummins
Powertrain Spec'ing	Cummins, Allison
Clean Cab Concept	Spartan, KME
Lighting Fixture Placement on Scene	HiViz, SafeFleet, IDEX
Aerial Inspections	UL? TBD
Advanced Pump Controls	IDEX
Keeping Firefighters Off the Top of Apparatus	Pierce, TFT
Air Bags and Occupant Protection	Spartan, IMMI
Brakes and Brake Adjustment	Meritor, International



FAMA Forum Schedule 2018

Jan-18	Fire Service Statistics	Fire Service	Paul Darley
Feb-18	Headlights	Lighting	Sam Massa
Mar-18	History of FAMA Influence on Apparatus Safety	Safety	Grady North
Apr-18	Common Engine Maintenance Mistakes	Engines	Chris Crowel
May-18	SAE Ambulance Recommended Practices	Safety	Roger Lackore
Jun-18	Hose Testing Safety	Safety	Gregg Geske
Jul-18	V2V Communications in Fire Apparatus	Technology	Cory Haas
Aug-18	Carcinogens and Apparatus Design Impact	Safety	Scott Beecher
Sep-18	Foam Concentrate Evolution	Foam	Tom Reser
Oct-18	FDSOA Promotion	FDSOA	Sam Massa
Nov-18	Temperature Impact on Modern Electronics	Electronics	Sam Massa
Dec-18	Corrosion and Fire Apparatus	Chassis	Zac Soderberg



FAMA Forum Schedule 2019

Jan-19	Fire Service Statistics	Fire Service	Paul Darley
Feb-19	Water Tanks	Tanks	Chad Falls
Mar-19	Foam and Water Additive Proportioning Systems	Foam	Mike Dupay
Apr-19	Hose Restraints	Safety - Hose Restraint	Dave Durstine
May-19	FAMA Fire Service Resources: a Well-Kept Secret	FAMA - Resource Library	Roger Lackore
Jun-19	Brake Maintenance	Braking	Meritor? Navistar?
Jul-19	Reducing Glare on Fire Scenes	Lighting	Sam Massa
Aug-19	Pump Panel Labeling	Pumper	Bruce Lear
Sep-19	Clean Cab -Survey of Apparatus Design Approaches	Safety	Scott Beecher
Oct-19	FDSOA Promotion	FDSOA Promo	Sam Massa
Nov-19	Connected Vehicles	Chassis	Cory Haas
Dec-19	Brush Truck Design	Jeff Keiser	Jeff Keiser



FAMA Forum Schedule 2020

Jan-20	Aspects of High Water Apparatus Design	Apparatus	Jesse Marroquin
Feb-20			
Mar-20			
Apr-20			
May-20			
Jun-20			
Jul-20			
Aug-20			
Sep-20			
Oct-20			
Nov-20			
Dec-20			



Website Product Search

"Committee is developing data that can be used by the web developers to create a more robust search function by product and/or by product category.



Example Data

Company	Products/Services	Category
Action Coupling & Equipment, Inc.	Hose Couplings	Water Flow Components
Akron Brass Co.	Nozzles	Water Flow Components
Akron Brass Co.	Monitors	Water Flow Components
Akron Brass Co.	Valves	Water Flow Components
Akron Brass Co.	Scene Lights	Lighting
Akron Brass Co.	Work Lights	Lighting
Akron Brass Co.	DOT Lights	Lighting
Akron Brass Co.	Compartment Lights	Lighting
Akron Brass Co.	Reels	Apparatus Components
Alexis Fire Equipment Co.	Pumper Apparatus	Emergency Vehicles
Alexis Fire Equipment Co.	Tanker/Tender Apparatus	Emergency Vehicles
Alexis Fire Equipment Co.	Rescue Apparatus	Emergency Vehicles
Alexis Fire Equipment Co.	Command Apparatus	Emergency Vehicles
Alexis Fire Equipment Co.	Aerial Apparatus	Emergency Vehicles
Alexis Fire Equipment Co.	Mini-Pumper Apparatus	Emergency Vehicles
Alexis Fire Equipment Co.	Trailer Apparatus	Emergency Vehicles
Alexis Fire Equipment Co.	Ambulance	Emergency Vehicles
Alexis Fire Equipment Co.	Apparatus Repair	Service
Alexis Fire Equipment Co.	Apparatus Refurbishment	Refurbishment
Alexis Fire Equipment Co.	Pump Testing	Service



Search

Category	Products/Services	▼ Company
■ Apparatus Components	■ Aerial Devices	Bronto Skylift, Inc
	■ Aluminum Castings	Austin Hardware & Supply, Inc.
	■ Aluminum Extrusions	Austin Hardware & Supply, Inc.
	Door Hardware	Austin Hardware & Supply, Inc.
	■ Equipment Mounting	Austin Hardware & Supply, Inc.
	■ Generators, Line Voltage	Cummins Inc. – Generators
	⊟ Hardware	Austin Hardware & Supply, Inc.
	■ Poly Apparatus Bodies	APR Plastic Fabricating, Inc.
	⊟ Reels	Akron Brass Co.
		COXREELS
	■ Intercom Systems	David Clark Company Inc.
	□ Doors, Roll-Up	AMDOR, Inc.
	■ Doors, Shutter	AMDOR, Inc.
	■ Doors, Compartment	AMDOR, Inc.
□ Chassis Components	■ Alternators	C.E. Niehoff & Company
	Automatic Transmissions	Allison Transmission, Inc.
	■ Engines, Diesel	Cummins Inc. – Engines
□ Dealer	Dealer, Ambulances	Apparatus Equipment & Service, Inc.
		Bulldog Fire Apparatus, Inc.
	■ Dealer, Fire Apparatus	Apparatus Equipment & Service, Inc.
		Boise Mobile Equipment, Inc.



Website Product Search Process

- "Create the database based on web search
- "Review by each company
- "Provide to web developers for implimentation



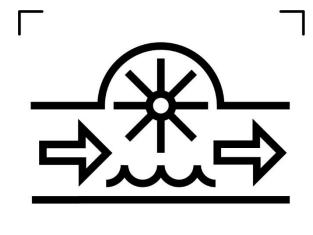
Yellow Line Worksheet

- "Application of the NFPA yellow line requirement was intended to be a collaboration between the purchaser and the manufacturer.
- "Develop a worksheet that can be used during precon to guide both parties through the process.

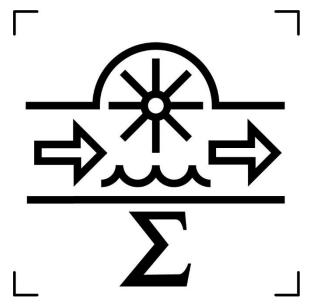




FAMA Symbols



Water Flow Rate



Water Flow Total



Hose Bed Capacity Test Standard TC065

" Initiative

Create a test standard for determining the hose capacity of a hose bed

FEMSA agreed to use the test method to provide data to apparatus manufacturers.

Test Number	Test Date	Hose Diameter (in)	Brand Name	Part or Model Number	Material	Description	Service Pressure (psi)	Test Hose Assembly Length (ft)	Test Hose Assembly Weight (lbs)	Test Fixture Width (in) W	Test Lay Height (in) H	Total Volume of Test Assemby (in^3)	Volume per Linear Foot (in^3/ft)	Weight per Linear Foot of Hose (lb/ft)
Example	8/23/2017	1.75	Ndurance		Polyester	Double Jacket	400	200	120	8	16	9216	46.08	0.6
Example	8/23/2017	2			Nitrile / PVC through-the-weave	Rubber Covered	300	200	100	10	18	12960	64.8	0.5
Example	8/23/2017	2			Polyester	EDPM Lined Dbl Jckt	300	200	100	10	18	12960	64.8	0.5
TC065-001												0	#DIV/0!	#DIV/0!
TC065-002												0	#DIV/0!	#DIV/0!
TC065-003												0	#DIV/0!	#DIV/0!
TC065-004												0	#DIV/0!	#DIV/0!



NFPA 1901/1906

Public Input meeting Orlando. October 9-11, 2018

- " Cab Seat Accommodation using NIOSH Study
- " Emergency Warning Lights Minimum Intensity Value?
- " 1906 On-Board Riding Position
- "Vehicle to Vehicle Communication



NFPA 1500 Standard on Fire Department Occupational Safety, Health, and Wellness Program

Apparatus Related Topics

- " SCBAs out of Cab
- Contaminated PPE and Equipment not Carried in Cab unless Bagged and Secured
- Aerial Fall Protection. Method for personnel climbing the ladder to be continuously tethered during the climb.
- "Cab step heights limited to 12 inches if personnel must exit the cab with more than 30 lbs equipment
- Exhaust directed away from personnel



NFPA 1500 Standard on Fire Department Occupational Safety, Health, and Wellness Program

- " Second Draft
 - " Public Comment Closing Date: November 15, 2018
 - " Second Draft Report Posting Date: August 1, 2019



Buyer's Guide Progress

Pending

15

Draft

3

To Board

6

Published

25



Body

John House

TC039	Buyers Guide – Water Tanks	Andrew Lingel - UPF	Published
TC041	Buyers Guide - Hose Restraints	Grady North - E-One	Published
TC042	Buyers Guide - Stepping Surfaces	Burt McCutcheon - Ferrara	Pending
TC043	Buyers Guide - Chevron Stripping and Graphics	Jerry Merges - VisionMark	Pending
TC053	Buyers Guide - Breathing Air Systems	Ed Smith - VT Hackney	To be pub
TC054	Buyers Guide - Compartment Doors	Bruce Whitehouse - AMDOR	Published
TC055	Buyers Guide - Reels	Denis Bleile - COXREELS	Published
TC056	Buyers Guide - Ladder and Equipment Racks	Mike Adams - Ziamatic Ryan Glover - Ziamatic	To be pub
TC058	Buyers Guide - Equipment Mounting - Body	Greg Young - Performance Advantage Co.	To be pub
TC059	Buyers Guide - Body Access	Mike Adams - Ziamatic Ryan Glover - Ziamatic	To be pub



Body (cont.)

John House

TC072	Buyers Guide - Brush Truck Apparatus	Pending
TC073	Buyers Guide - Tanker and Tender Apparatus	Pending
TC074	Buyers Guide - Wildland Apparatus	Pending
TC075	Buyers Guide - Cold Environment Apparatus Design	Pending



Chassis

Tim Johnson, Chris Crowell

TC033	Buyers Guide – Auxiliary Braking Systems	Chris Crowell	Published
TC034	Buyers Guide – Apparatus Mounted Winches	Steve Stein, Steve Martin	Published
TC036	Buyers Guide – Apparatus Seating	Bev Lowrey	Published
TC047	Buyers Guide – Spec'ing Apparatus for Maintenance	Drew Sutphen	To Board
TC048	Buyers Guide – Suspensions – Front	Chad Trinkner - Pierce	Pending
TC049	Buyers Guide – Suspensions – Rear	Bob Albano – Hendrickson	To Board
TC051	Buyers Guide – Crew Compartment Storage	Mike Adams – Ziamatic	Published
TC057	Buyers Guide – Occupant Protection	Dan Veselsky – IMMI	Published
TC062	Buyers Guide – Tires	Woody Savage – Michelin	Pending
TC063	Buyers Guide – Wheels	Greg Polks – Real Wheels	Published
TC064	Buyers Guide – HVAC	Roger Lackore – REV Group	Pending
TC066	Buyers Guide – Exhaust Removal Systems	Scott Beecher – Ward Diesel Filter Systems	Draft



Electrical

Peter Luhrs, John Doperalski

TC035	Buyers Guide – Batteries, Alternators, & Chargers	Pete Sremac - Niehoff	Published
TC037	Buyers Guide – Scene Lighting	Sam Massa – Hi-Viz	Published
TC038	Buyers Guide – Line Voltage Generators	John Doperalski – Harrison	Draft
TC040	Buyers Guide – Headlights	Sam Massa – Hi-Viz	Pending
TC044	Buyers Guide – Warning Lights	Matt Pitzer – Code 3	Published
TC045	Buyers Guide – Multiplex Electrical Systems	Dave Durstine – Weldon	Published
TC050	Buyers Guide – Fire Apparatus Sirens	Morgan Look – Federal Signal	Published
TC060	Buyers Guide – Light Towers	Drew Newman – Wilbert	Published
TC061	Buyers Guide – Camera Systems	Grady North – E-One	Published
TC069	Buyers Guide – Vehicle to Vehicle Communications	Cory Haas – Haas Alert	Draft



Foam

Gregg Geske, Mike Dupay

TC030 Buyers Guide – Foam & Water Additive

Proportioning Systems

TC067 Buyers Guide – CAFS

Dave Durstine - IDEX Mike Dupay – Fire Research

Troy Carothers – Darley

Published

Pending



Pump

Peter Lauffenburger, Mike Sulmone

TC024	Buyers Guide – Pumps	Doug Miller – Task Force Tips	Published
TC052	Buyers Guide – Electronic Pressure Governors	Dave Guynn – Hale	Published
TC070	Buyers Guide – Pump Primers	Mike Sulmone – Trident	Pending
TC071	Buyers Guide – Deck Gun and Aerial Monitors	Pete Lauffenburger – Akron	Pending
TC076	Buyers Guide - Pump Control Location		Pending



Aerial

Jim Salmi, John Brady

TC031 Buyers Guide – Aerial Apparatus Reid Wissler Published

TC068 Buyers Guide – Aerial Rope Rescue Systems TBD

Pending



Aerial Ice Load Definition

- "NFPA has added wind, but not ice.
- "Do we think we should consider ice?
- " If so, how do we define it?
- "Should it be on the load charts?





Aerial Wind Load Definition

- " NFPA has added wind
- "Do we need a standard to consider
- "Add something to NFPA Now?
- "Next Revision Cycle?
- "FAMA design document to set us up for next time?





DAWS NFPA Validation

"Need validation that this is the correct data format.

Table 4.11.9.1

Data	Format/Units
ID*	Unique identifier of the apparatus
Timestamp*	Conforms to ISO 8601 extended format
	([YYYY]-[MM]-DD]T[hh]:[mm]:[ss.ff][TZD])
Latitude*	Conforms to ISO 6709 ±DDD.D format
Longitude*	Conforms to ISO 6709 ±DDD.D format
Altitude	in Meters above (>0) or below (<0) sea level
Accuracy	Meters
Speed*	Meters / Sec
Heading*	Degrees, where 0/360 = North, 90 = East, 180
	= South, and 270 = West
Run ID	Unique identifier associating 2 or more
	DAWS data points with each other
Master optical warning device switch*	Boolean "true" / "false", where "true" = on

^{* =} required



Chevron Color Support

- "Do we as an organization wish to support the Chevron Color change in NFPA?
- "Letter of support?
- " PI Comment?





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