



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

Special Thanks to the Technical Committee Meeting Sponsor

SoundOff
Signal |||||®



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

TECHNICAL COMMITTEE REPORT



Roger Lackore
Melissa Dobbs





FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

ARFF



Tague Johnson
(Rosenbauer)



RJ Jones

PUMP



Wayne Hable
(Darley)



Mike Sulmone
(Trident)

CHASSIS



Chris Crowel
(Cummins)



Dale Katz
(E-ONE)

BODY



Shelby Sutphen
(Sutphen)



Wyatt Compton
(Spartan ER)

ELECTRICAL



John Doperalski
(Harrison)



Peter Luhrs
(Fire Research)

AERIAL



Jim Garver
(Sutphen)



John Brady
(KME)

FOAM



Mike Dupay
(Fire Research)



Gregg Geske
(Waterous)

AMBULANCE



Steve Rowland
(Hale)



Brent Walker
(SoundOff)



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

Buyer's Guide Progress

**Thank you to the Board, Marketing Committee and
Clarion for promoting the Buyer's Guides**

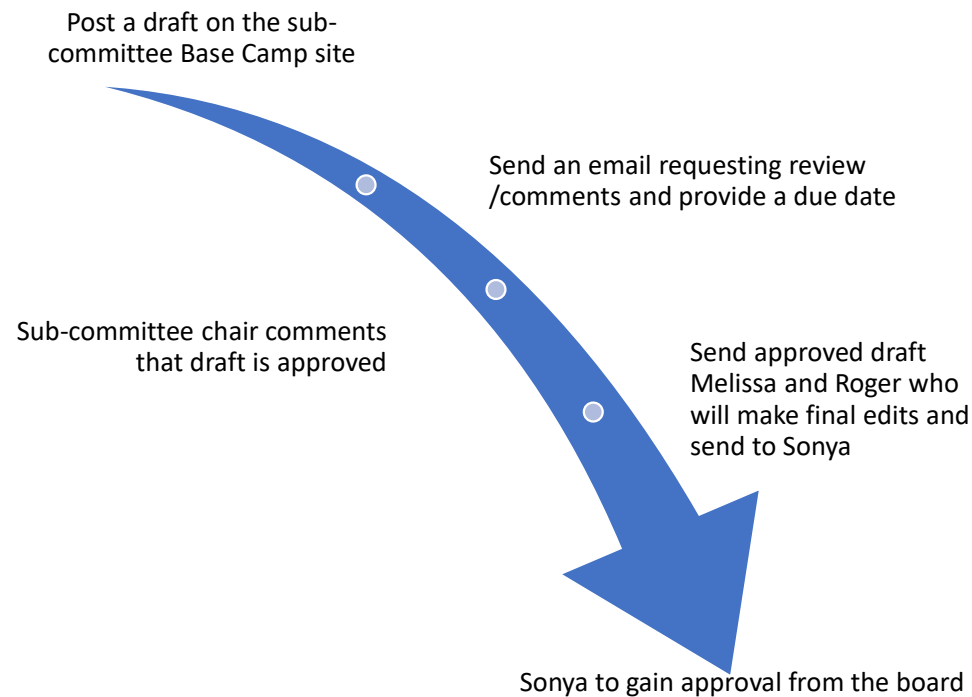
Pending	10
Draft	1
To Board	0
Published	43



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

Process for Submitting Buyer's Guides for Review/Approval





FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org



Aerial

John Brady
Jim Garver

Aerial	TC068	Buyers Guide - Aerial Rope Rescue Systems	John Witt	Pending
--------	-------	---	-----------	---------



Body

Shelby Sutphen
Wyatt Compton

Body	TC075	Buyers Guide - Cold Environment Apparatus Design	John Witt	Pending
	TC077	Buyers Guide - Hose Bed Sizing	Jeff Hicks	Pending
	TC090	Noise attenuation and cab thermal management	Dino Perin	Pending



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org



Chassis

Chris Crowell
Dale Katz

Chassis	TC084	Apparatus Electrification	Dale Eddy, Dale Katz	Pending
---------	-------	---------------------------	----------------------	---------



Electrical

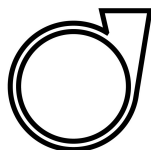
Peter Luhrs
John Doperalski

Electrical	TC069	Buyers Guide - Vehicle to Vehicle Communications	Brock Aun	Draft
	TC089	Wildland Lighting	James Rameker	Pending



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org



Pump

Wayne Hable
Mike Sulmone

Pump	TC076	Buyers Guide - Pump Control Location	Wyatt Compton - Spartan	Pending
	TC086	Pump Temperature Protection	Wayne Hable	Pending



Foam

Gregg Geske
Mike Dupay

Foam	TC067	Buyers Guide - CAFS	Troy Carothers - Darley	Pending
------	-------	---------------------	-------------------------	---------



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

FAMA Forum Article Ideas

1	Turbocharger Life and Engine Shut-Down Requirement	Chassis	Chris Crowel
2	Tire Life and Fire Service Ratings	Chassis	Patricia Meisenholder TC062, FAMA Safety Guide
3	Lavender Ribbon Report update (clean cab)	Chassis	Scott Beecher
4	Apparatus Lead Time Discussion	Tech	Paul Darley
5	Refurbishing Old Apparatus	Body	Mike Mowry, Pierce Rep
6	PFAS Foam Transition	Foam	James Morgan
7	Pump Primers and Thermal Protection	Pumps	Mike Sulmone TC070, Mike Hable
8	Wheels	Chassis	Dave Walters TC063
9	Frame Corrosion	Chassis	Roger Lackore TC080
10	Tankers and Tenders	Body	Wyatt Compton TC073
11	Line Voltage Generators	Electrical	John Doperalski TC038
12	Deck Gun and Aerial Monitors	Pumps	Pete Lauffenburger TC071



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

Canadian ULC S515 Standard



New ULC 515 Standard Published!!

CAN/ULC 515:2024, Automobile Fire Fighting Apparatus

ULC Standards is pleased to announce the publication of the Fourth Edition of CAN/ULC 515:2024, Automobile Fire Fighting Apparatus, dated April 3, 2024. For more information about this Standard, please contact Anna Roessing-Zewe at (224) 714-0699 or by email at anna.roessing-zewe@ul.org.



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

Canadian ULC S515 Standard

4 GENERAL REQUIREMENTS

4.1 All new automotive fire apparatus, wildland fire apparatus, wildland fire crew carrier apparatus, and trailers shall meet the requirements contained in the Canadian Motor Vehicle Safety Standards (CMVSS) promulgated by Transport Canada.

4.2 All new automotive fire apparatus, wildland fire apparatus, wildland fire crew carrier apparatus, and trailers **shall meet the applicable requirements contained in NFPA 1900** Standard for Aircraft Rescue and Firefighting Vehicles, Automotive Fire Apparatus, Wildland Fire Apparatus, and Automotive Ambulances with the following exceptions:

4.2.1 Intake and Discharge Connections

Any thread for fire suppression plumbing may be specified by the AHJ in accordance with their operational requirements.

4.3 Fire Extinguisher

One fire extinguisher having a minimum rating of 5 B:C shall be provided.



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

Canadian ULC S515 Standard Annex

- **ANNEX A – Explanatory Material**

- A4.1 The apparatus vehicle manufacturer is responsible for compliance with CMVSS regulations for vehicles that will be registered and operated in Canada. The regulations can be downloaded from the Transport Canada website. The safety standards for the most part mirror the US Federal Motor Vehicle Safety Standards (FMVSS) found in the Code of Federal Regulations (CFR) Title 49. The CMVSS regulations include these significant differences:
 - Speedometer and Odometer primary units must be in metric.
 - Daytime running lights are required.
 - The operator manual must be in both English and French.
- A4.2 NFPA 1900 is based on US gallons and Litres. If the purchaser operates in imperial gallons it should be made clear in the purchase specification.



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

NHTSA NPRM for AEB and ESC

NHTSA-2023-0023/FMCSA-2022-0171

- ☐ ESC Required on Heavy Trucks
- ☐ AEB Required on Heavy Trucks
- ☐ AEB in Heads-Up-Display



Tech Committee submitted two comment letters

- ☐ ESC Not available on 4x4 – **Asked for Exemption**
- ☐ AEB Not tested on emergency vehicles – **Asked for Exemption**
- ☐ HUD is not physically possible with vertical windshields



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

Air Conditioning Refrigerant Regulations

- ☐ Heavy Duty vehicles (other than heavy duty pickups/vans) will continue to be **allowed to use R-134a** for 2028 MY and beyond. The ruling below only applies to pickups and vans.
 - ☐ However, due to potential price and/or availability of R-134a in future years, we are working on getting R-1234yf approved for use in these other heavy duty vehicles.
 - ☐ If/once approved, EPA may add rulings that would prohibit R-134a for these other HD vehicles. But I expect this would be no sooner than 2030 MY, or maybe even a year or two later.
- David Smith, Honeywell



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

IAFC and EPA Meeting on Engine Emissions Reliability

Fire apparatus have no derate inducement but still takes the truck out of service.

Training operators to ignore dash alert icons leads to service problems being ignored – leads to engine failures – Expensive repairs.

What can EPA do to help out.



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

NFPA Chapter Reviews

Each subcommittee should plan to review their respective chapters and suggest changes to:

- ☐ **Remove outdated requirements**
- ☐ **Simplify requirements**
- ☐ **Remove operational (non safety critical) requirements**



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org



Questions/Comments



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

Special Presentation

EV Apparatus Early Adoption Perspectives From Fire Chiefs

Sam Massa

HiViz LED Lighting / FireTech Lights

James Gaboury

Dept Fire Chief of Logistics for San Diego Fire-Rescue Dept.

Jason “Jackson” Nickelson

Fire Maintenance Administrator Mesa Fire and Medical Department

James Johnson

Assistant Chief Mesa Fire and Medical Department

Rob Anselmi

Division Chief Mechanical Maintenance Equipment & Asset Management

Ryan Hayes

Assistant Chief Fleet and Equipment Services, Vancouver Fire Rescue Services

Jerry Winkles

Deputy Chief, Charlotte NC



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

Acceptance?

Range?

**Service
Training?**

Politics?

Charging?

Reliability?



Pumping?

Acceleration?

Price?

Noise?

Range Extender?

Infrastructure?

**Operator
Training?**

Battery Life?



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

Parking Lot Initiatives

EV Charging Infrastructure for Fire Stations – Guide

Clean Cab Guide

NHTSA Fire Apparatus Recall Guide

Engine Emissions & GHG Guide

Buyers Guide Videos

Size and weight by state update

Safety Guide Video

Safety Guide Digital to Replace Books



FIRE
APPARATUS
MANUFACTURERS'
ASSOCIATION

www.FAMA.org

Special Thanks to the Technical Committee Meeting Sponsor

SoundOff
Signal |||||®