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Tech Committee Report

Roger Lackore

Wes Chestnut



Mission Statement

“ To research, recommend and represent member organizations on technical issues related to the manufacture of fire apparatus with the goal of constant improvement to product and safety for the end user.



Tech Committee Leadership

Co-Chairs

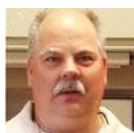


Roger Lackore (Oshkosh)
Wes Chestnut (Spartan)



Aerial/Quint

Reid Wissler
(Spartan)
John Brady
(KME)



ARFF

Marty Huffman
(Rosenbauer)
Sarah Peck
(Akron)



Ambulance

Steve Rowland
(Ferno)
Mike Franckowiak
(Akron)



Body

Harrison Wessinger
(Fouts Bros)
Wayde Kirvida
(Custom Fire)



Chassis

Tim Johnson
(Rosenbauer)
Chris Crowell
(Cummins)



Electrical

John Doperalski
(Harrison)
Peter Luhrs
(Weldon)



Foam

Gregg Geske
(Waterous)
Mike Dupay
(Fire Research)



Pumps & Plumbing

Doug Miller
(TFT)
Mike Sulmone
(Trident)



Tech Ed

Lisa Barwick
(Pierce)
Dan Veselsky
(USSC)



NFPA 1901/NFPA 1906

” NFPA 1906 – 2016 Edition

- . Published

” NFPA 1901 – 2016 Edition

- . Motion passed to amend the document to increase seating width.
- . Apparatus committee ballot did not approve the amendment.
- . IAFF appeal sent to Standards Council
- . Standards Council Rejected the Motion
- . Text reverts to the 2009 version.
- . Expected Publication Late September




NFPA Safety History Spreadsheet


“ Spreadsheet handed out in April has been updated with subcommittee revisions



FAMA25 Safety Sign Revision

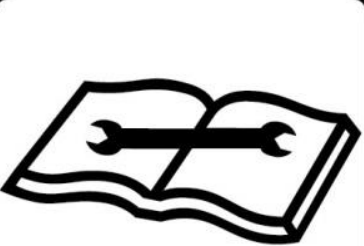
” Suggestion to add reference to NFPA 1962 *Standard for the Inspection, Care, and Use of Fire Hose, Couplings, and Nozzles and the Service Testing of Fire Hose*

 **WARNING**



Only trained personnel should operate this equipment.

Personnel connecting supply or discharge hoses must be trained to recognize and respond to water hydraulics hazards and component limitations.



Do not operate or service until you have read, understood, and been trained and qualified on the procedures found in the latest editions of NFPA standards including 1911, 1451, 1500, 1962; FSTA Handbooks; and the operation and service manuals supplied with this equipment.

Replacement manuals are available from the manufacturer of this apparatus.

Operating or servicing without knowledge or training may lead to injury or death for you or others.

FAMA25 Do not paint over this label. Replace if damaged or lost



EPA Phase 2 GHG & Fuel Economy

Emergency Vehicle Relief

- “Chassis intended for emergency vehicles have proposed Phase 2 standards based only on Phase 1 technologies, and may continue to certify using a simplified Phase 1-style GEM tool.”

Air Conditioning Leaks

- “For Phase 2, EPA believes that it would be feasible to apply ... A/C refrigerant leakage standards for vocational vehicles, beginning with the 2021 model year.”

Small Business no longer Exempt

- “All small businesses are exempt from the Phase 1 standards. The agencies are proposing to regulate small business entities under Phase 2”



NHTSA Apparatus Manufacturer Compliance Awareness





NHTSA REQUIREMENTS FOR APPARATUS MANUFACTURERS

WHO IS A MANUFACTURER

Manufacturer Definitions

- “ **Incomplete vehicle manufacturer** means a person who manufactures an incomplete vehicle by assembling components none of which, taken separately, constitute an incomplete vehicle.
- “ **Intermediate manufacturer** means a person, other than the incomplete vehicle manufacturer or the final-stage manufacturer, who performs manufacturing operations on a vehicle manufactured in two or more stages.
- “ **Final-stage manufacturer** means a person who performs such manufacturing operations on an incomplete vehicle that it becomes a completed vehicle.
- “ **Alterer** means a person who alters by addition, substitution, or removal of components (other than readily attachable components) a certified vehicle before the first purchase of the vehicle other than for resale.



49CFR §567

Manufacturer Examples

” Custom Fire Apparatus

- . Final Stage Manufacturer

” (E-One, KME, Ferrara, etc...)

” Apparatus Built on Commercial Chassis

- . Chassis Builder – Incomplete Vehicle Manufacturer

” (Spartan, Freightliner, Ford, HME, etc...)

- . 4x4 Upfitter – Intermediate Manufacture

” (Fontaine, Monroe Truck, etc...)

- . Body Builder – Final Stage Manufacturer

” (Fouts Brothers, Danko, Custom Fire Apparatus, etc...)



49CFR §567



NHTSA REQUIREMENTS FOR APPARATUS MANUFACTURERS

**ALL FINAL-STAGE AND INCOMPLETE
MANUFACTURERS
REGULAR COMMUNICATIONS**

Defect Communications

Monthly

- ” **"Notices, Bulletins, Communications, etc...**
- ” **Sent to more than one:**
 - . Dealer, distributor, manufacturer, customer, etc...
- ” **Regarding any:**
 - . Defect, malfunction, failure of performance, flaw or unintended deviation from spec...."

**NOT JUST SAFETY ISSUES –
ANY DEFECT**



49CFR §579.5 a)

Customer Satisfaction Communications

“ Communications *Monthly*

“ Sent to more than one:

- . Dealer, distributor, manufacturer, customer, etc...

“ Regarding any:

- . Customer satisfaction campaign, advisory, recall, or other safety activity

“ Involving:

- . Repair or replacement of motor vehicles or equipment"



49CFR §579.5 b)

Foreign Recalls

- “ Voluntary or Mandatory Recalls in Foreign Countries
- “ Regarding any:
 - . Vehicle or equipment substantially similar to product sold in the U.S.

*5 Working Days
After
Determination*



49CFR §579.11 a)

Substantially Similar Exports

” Substantially Similar Export Products

- . List of vehicles sold in foreign countries that are identical or substantially similar to vehicles sold in the U.S.

” Submitted Every November

Annually



49CFR §579.11 e)



NHTSA REQUIREMENTS FOR APPARATUS MANUFACTURERS

**MORE THAN 500 EMERGENCY
VEHICLES PER YEAR**

Early Warning Reporting

” Production List

” Deaths or Injury Claims

” Early Warning Reporting

- . Property Damage Claims
- . Consumer Complaint Numbers by TREAD Category
- . Warranty Claim Numbers by TREAD Category
- . Number of Field Reports by TREAD Category

” Field Reports Copies

Quarterly



49CFR §579.22 a-d)



NHTSA REQUIREMENTS FOR APPARATUS MANUFACTURERS

**LESS THAN 500 EMERGENCY
VEHICLES PER YEAR**

Deaths

Quarterly

- “ **List of vehicles involved in Deaths where the incident was communicated via a:**
 - . Claim (written request or demand for relief)
 - . Notice (document other than media article)
- “ **Where:**
 - . Injury or death occurred in the U.S.
 - . Notice alleges the death or injury was caused by a defect.
- “ **List must include the Make, Model, Model Year, VIN, and up to 5 incident related TREAD categories”**



49CFR §579.27 b)



NHTSA REQUIREMENTS FOR APPARATUS MANUFACTURERS

RECALL REPORTING –
ALL MANUFACTURERS

Recall Reporting



FAMA has a letter of interpretation into NHTSA, but in the meantime, the Office of Defects Investigation has provided general guidance as follows:



Recall Reporting



“ Report Safety Defects on Motor Vehicles”

When a manufacturer of motor vehicles or replacement equipment determines that any motor vehicle or item of replacement equipment produced by the manufacturer

- contains a defect that relates to motor vehicle safety
- fails to conform to an applicable Federal motor vehicle safety standard

***5 Working Days
After
Determination***

49CFR §577.5



Recall Reporting



- “ **Report Safety Defects includes Non-Operational use**
 - . The Safety Act’s legal responsibilities apply to motor vehicles and motor vehicle equipment. The definition of motor vehicle safety includes “nonoperational use of a motor vehicle.”



49CFR §577.5

Recall Reporting



” Report Safety Defects on Equipment Installed at Time of Manufacture

- . Equipment installed on the vehicle when manufactured is “motor vehicle equipment” and is subject to a NHTSA recall if it contains a “defect” that poses an “unreasonable risk to safety.”
- . This is true whether or not the defect relates to the operation of the vehicle during travel or while engaged in other work activity. NHTSA considers such activity to be “nonoperational use of a motor vehicle.”



49CFR §577.5

Recall Reporting



” Report Safety Defects on Equipment Not Covered by Other Regulations

- . NHTSA is particularly likely to take responsibility if there is no other agency that regulates the safety of the product and/or if NHTSA considers the other agency’s recall process to less robust.



49CFR §577.5

Recall Reporting



” Hypothetical Examples

- . Steering dragline ball joints fail prematurely
- . Pressure governor fails to maintain water pump pressure at a steady pressure
- . Aerial outrigger may fail during operation
- . Hose restraint clip could fail causing hose to fall off the apparatus
- . Breathing air cascade system could allow contaminated air into SCBA bottles



49CFR §577.5

NHTSA Recall Portal



- ” Establish an Account
- ” Establish Account Administrator
- ” Assign Users
- ” Submit Reports
 - . 573 Report
 - . Owner and Dealer Notification Letters
 - . Quarterly Status Reports

Recalls Portal Help Desk at 1-888-719-9220



49CFR §573

Examples of Penalties for Reporting Non-Compliance in 2015

“Spartan and Forest River...failure to launch timely safety defect recalls as required by the Motor Vehicle Safety Act, and to report critical data such as technical service bulletins and Early Warning Report data”

Prevost (buses)	\$1,500,000
Spartan	\$9,000,000
Fiat Chrysler	\$105,000,000
American Honda	\$70,000,000
Graco (child seats)	\$3,000,000
Forest River (RV)	\$35,000,000



49CFR §578.6

FAMA Forum Schedule

"	Jan	Wes Chestnut	Wheel studs, lug nuts, need for checking.
"	Feb	Roger Lackore	FAMA White papers
"	Mar	Roger Lackore	NFPA 1906 Pump and Roll
"	Apr	Jim Juneau	Annex D
"	May	Chris Crowel	EPA Regs impact on fire industry
"	June	Grady North	CAFs on wildland apparatus
"	July	Wes Chestnut	Getting to know your tires
"	Aug	Bill Proft	Rescue rope tie-offs and winch receivers
"	Sep	Lisa Barwick	Interschutz
"	Oct	Roger Lackore	1901/1906 Change Summary
"	Nov	Steve Rowland	NFPA 1917 Review with cost implications
"	Dec	Paul Darley	Fire service statistics
"	Jan	Tim Johnson	New Industry Technologies



**Need New Topic
Suggestions**

Weight and Cube Calculator

- “ Major components reviewed for accuracy and new products
- “ Revise to simplify use

**Suggestions from the
User Perspective?**



Subcommittee Assignments

” Whitepaper Assignments

- . Authors
- . Schedules





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