

NFPA Technical Committee on Fire Department Apparatus



NFPA 1910 (NFPA 1911, 1912) First Draft Meeting AGENDA February 8-9, 11-12, 16-19, 2021

10:00 AM Start Time (ET)

- I. Chair Dave Haston calls meeting to order on February 8th, 2021.
- II. Welcome and Opening Remarks.
- III. Introduction of attendees (Attachment A).
- IV. Review purpose of meeting and schedules (Attachment B).
- V. Address submitted public inputs and develop any first revisions (Attachment C)
- VI. Old business:
 - Recap on process items.
- VII. New business:
 - a. Task Groups for SDM
 - b. NFPA 1911 and 1912 alignment
- VIII. Date and location of next meeting.
- IX. Adjournment.

ATTACHMENT A

Fire Department Apparatus

01/07/2021 Ken Holland **FDA-AAA**

David V. Haston	E 1/14/2005	John W. McDonald	E 1/1/1991
Chair US Department of Agriculture Forest Service National Interagency Fire Cent 3833 South Development Ave Boise, ID 83705-5354	FDA-AAA	Secretary US General Services Administration 9001 Brickyard Road Potomac, MD 20854 Alternate: Daniel Buckingham	FDA-AAA
Elden L. Alexander	E 8/2/2010	Scott Beckwith	E 08/08/2019
Principal US Department of the Interior Bureau of Land Management 3833 South Development Avenue Boise, ID 83705 National Wildfire Coordinating Group Alternate: William H. Yohn	FDA-AAA	Principal Parker County ESD 1 8749 Southwestern #18201 Dallas, TX 75206	FDA-AAA
Wesley D. Chestnut	M 08/11/2014	Peter F. Darley	M 4/1/1993
Principal Spartan Motors, Inc. 1541 Reynolds Road Charlotte, MI 48813-2040	FDA-AAA	 Principal W. S. Darley & Company 325 Spring Lake Road Itasca, IL 60143-2072 National Truck Equipment Association Alternate: Jason Darley 	FDA-AAA
Kenneth Desmond	U 04/08/2015	Michael Flores	U 11/30/2016
Principal 21 Aspen Lane Bath, ME 04530-2200 National Volunteer Fire Council Alternate: Ken Wettstein	FDA-AAA	 Principal Los Angeles Fire Department 7250 World Way West Los Angeles, CA 90045 Alternate: Nicholas A. Robideau 	FDA-AAA
James R. Garver	M 3/2/2010	Philip Gerace	M 04/11/2018
Principal Sutphen Corporation 4500 Sutphen Court Hilliard, OH 43026-1224 Alternate: Joseph A. Scott	FDA-AAA	Principal Task Force Tips 3701 Innovation Way Valparaiso, IN 46383 Fire Apparatus Manufacturers Association	FDA-AAA
Adam J. Goodman	SE 04/02/2020	Mark Haider	M 10/29/2012
Principal S-E-A Limited 795 Cromwell Park Drive Suite N Glen Burnie, MD 21061	FDA-AAA	 Principal Waterous Company 125 Hardman Avenue South South St. Paul, MN 55075-1191 Alternate: Brian Jacob Johnson 	FDA-AAA

Fire Department Apparatus

Gary Handwerk	M 01/01/1989	Steven Craig Hudson	L 08/17/2017
Principal	FDA-AAA	Principal	FDA-AAA
Mac1 Products, LLC.		Pompano Beach Fire Rescue	
630 Wanamaker Road		700 North East 23rd Avenue	
Jenkintown, PA 19046-2222		Pompano Beach, FL 33062	
		International Association of Fire Fighters	
		Alternate: Tony William Kelley	
James E. Johannessen	RT 7/24/1997	James J. Juneau	SE 4/17/2002
Principal	FDA-AAA	Principal	FDA-AAA
UL LLC		Juneau, Boll, Stacy, & Ucherek, PLLC	
141 Northridge Avenue		15301 Spectrum Drive	
Landisville, PA 17538-1914		Suite 300	
Alternate: Patrick T. Ginnaty-Moore		Addison, TX 75001	
James L. Kelker	RT 7/16/2003	Jeremy Kennedy	U 12/07/2018
Principal	FDA-AAA	Principal	FDA-AAA
Mistras Group Inc.		Charlotte Fire Department	
600 Kaiser Drive		1501 North Graham Street	
Heath, OH 43056		Charlotte, NC 28206	
Alternate: Wayne Travis Fister			
Kevin P. Kuntz	I 03/07/2013	James Roger Lackore	M 12/6/2017
Principal	FDA-AAA	Principal	FDA-AAA
Verisk Analytics/Insurance Services Office, I	nc.	REV Fire Group	
116 York Street		S94W23720 Kunzendorf Court	
Gettysburg, PA 17325		Big Bend, WI 53103	
		Alternate: James A. Salmi	
Samuel T. Massa	M 08/11/2020	David Michaels	I 12/02/2020
Principal	FDA-AAA	Principal	FDA-AAA
HiViz LED Lighting		Volunteer Firemen's Insurance Services, Inc.	(VFIS)
149 Twin Springs Road		183 Leader Heights Road	
Henderson, NC 28792		York, PA 17402	
William C. Peters	SE 4/4/1997	Amy Ray Solaro	E 12/06/2019
Principal	FDA-AAA	Principal	FDA-AAA
WC Peters Fire Apparatus Consulting Service	es, LLC	East Fork Fire Protection District	
552 Victory Place		1694 County Road	
River Vale, NJ 07675		Minden, NV 89423	
Edward C. Rice, Jr.	U 8/2/2010	John T. Schultz	M 12/06/2019
Principal	FDA-AAA	Principal	FDA-AAA
District of Columbia Fire Department		Pierce Manufacturing, Inc.	
2332 Golden Chapel Road		2600 American Drive	
Odenton, MD 21113		Appleton, WI 54912	

Fire Department Apparatus

Jason Shivers	I I 10/28/2014	Thomas A Stalnaker	I I 7/12/2001
Principal	FDA-AAA	Principal	FDA-AAA
Forsyth County Fire Department		Goshen Fire Company	
3520 Settingdown Road		1560 Vassar Court	
Cumming, GA 30028-8823		West Chester, PA 19380-5752	
Dava Stashashi	TL 00/11/2020	Debert I. Uzekunek	TI 7/06/2007
Dave Stockoski	<u> </u>	Robert L. Upcnurch	<u> </u>
Principal Mishing Department of Network Decomposition	FDA-AAA	Principal Estimate Country Fine & Descue Demontry out	FDA-AAA
1227 E. Dahingan Lake Dood		0500 Debro Spredlin Court	
Possemmen MI 48653		Purko VA 22015	
Roscommon, MI 40035		Durke, VA 22015	
Stephen Wilde	IM 7/28/2006	Jeff Vanmeter	M 04/05/2016
Principal	FDA-AAA	Voting Alternate	FDA-AAA
Certified Fleet Services, Inc.		IDEX Corp/Hale Products	
560 North Michigan Street		607 NW 27th Avenue	
Elmhurst, IL 60126		Ocala, FL 34475	
EVT Certification Commission, Inc.			
Alternate: Michael L. Thorn			
Daniel Buckingham	E 04/05/2016	Jason Darley	M 03/03/2014
Alternate	FDA-AAA	Alternate	FDA-AAA
US General Services Administration		W.S. Darley	
1800 F Street, NW		1051 Palmer Street	
Washington, DC 20405-0001		Chippewa Falls, WI 54729	
US General Services Administration		Principal: Peter F. Darley	
Principal: John W. McDonald			
Wavne Travis Fister	RT 10/29/2012	Patrick T. Ginnaty-Moore	RT 08/17/2018
Alternate	FDA-AAA	Alternate	FDA-AAA
National Testing/Mistras Group		UL LLC	
3550 SE 48th Lane		333 Pfingsten Road	
Ocala, FL 34480		Northbrook, IL 60062	
Principal: James L. Kelker		Principal: James E. Johannessen	
Rrian Jacob Johnson	M 12/06/2010	Tony William Kelley	I 08/17/2017
Altomoto		Altornoto	
Mileraus Company	г ра-ааа	Ancinate Springfield Missouri Fire Department	г ра-ааа
125 Hardman Avenue South		1354 West Berkshire Avenue	
South Saint Paul MN 55075		Niva MO 65714	
Principal: Mark Haider		International Association of Fire Fighters	
		Principal: Steven Craig Hudson	
	II 08/17/2019	James A. Salmi	M 1/1/1002
Alternota		Alternata	FDA AAA
Angeles Fire Department	г ра-ааа	REV/E-One Inc	г ра-ааа
6406 S. Main Street		1861 Charter I ane	
Los Angeles CA 9135/		I an easter $PA = 17601$	
Princinal. Michael Flores		Principal. Iames Roger I ackore	
r i meipai, mienaei r 10105		i i incipai, Jaines Nogel Lackole	

Fire Department Apparatus

Joseph A. Scott	M 04/03/2019	Michael L. Thorn	IM 7/28/2006
Alternate Sutphen Corporation PO Box 158 Amlin, OH 43002 Principal: James R. Garver	FDA-AAA	Alternate Oregon Apparatus Repair, Inc. PO Box 42010 Eugene, OR 97404 EVT Certification Commission, Inc. Principal: Stephen Wilde	FDA-AAA
Ken Wettstein	U 08/17/2018	William H. Yohn	E 3/1/2011
Alternate 820 Glenora Street Sterling, CO 80751 National Volunteer Fire Council Principal: Kenneth Desmond	FDA-AAA	Alternate US Department of the Interior National Park Service 3833 South Development Avenue Boise, ID 83705 National Wildfire Coordinating Group Principal: Elden L. Alexander	FDA-AAA
Dan W. McKenzie	O 4/5/2001	Howard L. McMillen	SE 1/1/1983
Member Emeritus US Department of Agriculture Forest Service San Dimas Tech & Dev Center 750 Live Oak Drive El Cajon, CA 92020-5634	FDA-AAA	Member Emeritus 7013 Allen Place Drive Fort Worth, TX 76116-9301	FDA-AAA
Ken Holland	03/26/2015		
Staff Liaison National Fire Protection Association One Batterymarch Park Quincy, MA 02169-7471	FDA-AAA		

ATTACHMENT B

NFPA 1910 (1911 content) FDA-AAA

February 8th

- 10:00am -12:30pm
- 1:00pm-3:30pm

NFPA 1910 (1912 content) FDA-AAA

February 11th

- 10:00am -12:30pm
- 1:00pm-3:30pm

NFPA 1900 FDA-AAA

February 16th

- 10:00am -12:30pm (Aerial, Foam, and Wildland Content)
- 1:00pm-3:30pm (Function Content)

February 18th

- 10:00am -12:30pm (Chassis Content)
- 1:00pm-3:30pm (Chassis Content)

February 19th

• 10:00am -12:30pm (Pump Content)

February 22nd

- 10:00am -12:30pm (Chapter 7 Content
- 1:00pm-3:30pm (Chapter 7 Content)

February 24th

- 10:00am -12:30pm (Electrical Content)
- 1:00pm-3:30pm (Electrical Content)

February 26th

• 10:00am -12:30pm (Chapters 1-3 Content)

ATTACHMENT C

Public Input	No. 165-NFPA 1910-2020 [Global Input]
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tatement of Prot	olem and Substantiation for Public Input
Update due to doc	cument consolidation.
ubmitter Informa	ation Verification
Submitter Full Na	me: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
City:	
State:	
Zip:	
Submittal Data:	Sat Sep 12 10:51:52 EDT 2020
Submittal Date.	

Public Input N	o. 17-NFPA 1910-2020 [Section No. 1.2.1]		
NFPA			
121			
The purpose of th	his standard is to provide requirements for an inspection, maintenance		
refurbishment, re vehicles and mar operating condition	tirement, and testing program that will ensure that in-service emergency ine firefighting vessels are serviced and maintained to keep them in safe on and ready for response at all times.		
Additional Propose	d Changes		
File Name	<u>Description</u> <u>Approved</u>		
1911_PI_No15_S.	1911_PI_No15_SWilde.pdf 1911_PI No. 15_S. Wilde		
Statement of Proble	om and Substantiation for Public Input		
	Statement of Problem and Substantiation for Public input		
Emergency vehicle s	hould have been plural emergency vehicles.		
Submitter Informati	on Verification		
Submitter Full Nem	e Stanhan Wilda		
Organization:	Certified Elect Services Inc		
Street Address	Certified Tieet Services, inc.		
City:			
State:			
Zip:			
Submittal Date:	Wed Jul 29 10:18:17 EDT 2020		
Committee:	FDA-AAA		
L			

1 3*	Application
This s	standard can be applied as follows:
(1) C 1 E	Chapters 1 through 3, 4 through 26, and Annexes A through D and M, constitute NFPA 911, <i>Standard for the Inspection, Maintenance, Testing, and Retirement of In-Service</i> Emergency Vehicles.
(2) C 1	Chapters 1 through 3, 27 through 29, and Annexes A, <u>D,</u> E, F, G , and M, constitute NFP 912, <i>Standard for Fire Apparatus Refurbishing</i>
(3) C S	Chapters 1 through 3, 30 through 46, and Annexes A, H, and M, constitute NFPA 1925, Standard on Marine Fire-Fighting Vessels
(4) C 1	Chapters 1 through 3, 47 through 49, and Annexes A, I, J, K, L, and M, constitute NFPA 071, <i>Standard for Emergency Vehicle Technician Professional Qualifications</i>
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Z.Z NFPA PUD	lications.
	olection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.
NEDA 11 Stone	Vard for Forlable Fire Extinguistiers, 2016 _ 2022 edition.
NEDA 12 Stan	lard on Carbon Diovide Extinguishing Systems 2018, 2022, edition
NFPA 72 [®] , Nat	ional Fire Alarm and Signaling Code [®] ,2016 <u>2022</u> edition.
edition.	Protection Standard for Pleasure and Commercial Motor Craft, 2015 _ 2020
NFPA 303, <i>Fire</i>	Protection Standard for Marinas and Boatyards, 2016 _ 2021 edition -
NFPA 720, Sta Equipment, 20 Professional Qu	ndard for the Installation of Carbon Monoxide (CO) Detection and Warning 15 -edition. NFPA- 1002, Standard for Fire Apparatus Driver/Operator Jalifications, 2017 <u>edition.</u>
NFPA 1005, Sta Fire Fighters, 20	andard for Professional Qualifications for Marine Fire Fighting for Land-Based
NFPA 1071, St	andard for Emergency Vehicle Technician Professional Qualifications, 2016
edition. NFPA-1 Wellness Progra	500 TM , Standard on Fire Department Occupational Safety, Health, and am, 2020 <u>edition.</u>
NFPA <u>1901</u> <u>190</u> <u>Apparatus</u> , <u>201</u> edition. NFPA 1 Service Emerge	0, <u>Standard for</u> <u>Aircraft Rescue and Firefighting vehicles</u> , <u>Automotive Fire</u> 6-edition. NFPA 1906, <u>Standard for</u> <u>Wildland Fire Apparatus</u> , 2016 911, <u>Standard for the Inspection, Maintenance, Testing, and Retirement of In-</u> ency Vehicles, 2017 and Automotive Ambulances, 2023 edition.
NFPA 1912, St	andard for Fire Apparatus Refurbishing, 2016 edition.
NFPA 1925, St	andard on Marine Fire-Fighting Vessels, 2018 edition.
NFPA- 1931, <i>St</i> 2020 edition.	andard for Manufacturer's Design of Fire Department Ground Ladders, 2015
NFPA 1961, Sta	andard on Fire Hose, 2013 _ 2020 edition.
NFPA 1962, Sta Hose, Coupling	andard for the Care, Use, Inspection, Service Testing, and Replacement of Fire s, Nozzles, and Fire Hose Appliances, 2013 <u>2023</u> edition.
NFPA 1963, Sta	andard for Fire Hose Connections, 2014 _ 2019 edition.
NFPA 1964, Sta	andard for Spray Nozzles, 2013 _ 2018 edition.
NFPA 1981, Sta Emergency Ser	andard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for vices, 2013 _ 2019_edition.
NFPA 1983, St edition. NFPA 1 Protection, 2019	andard on Life Safety Rope and Equipment for Emergency Services, 2017 1989, Standard on Breathing Air Quality for Emergency Services Respiratory 9 <u>edition.</u>
NFPA 2001, Sta	andard on Clean Agent Fire Extinguishing Systems, 2015 _ 2022 edition.
NFPA 2500, Sta	andards for Operations and Training for Technical Search and Rescue Incident

Update due to document consolidation. Update document editions.				
Submitter Information Verification				
Submitter Full Name	: Thomas Stalnaker			
Organization:	Goshen Fire Company			
Affiliation:	Admin Task Group			
Street Address:				
City:				
State:				
Zip:				
Submittal Date:	Sat Sep 12 10:56:19 EDT 2020			
Committee:	FDA-AAA			



2.3.2 Americ ABYC A ABYC A	 ABYC Publications. can Boat and Yacht Council, 613 Third Street, Suite 10, Annapolis, MD 21403. A-4, <i>Fire Fighting Equipment</i>, July 2008. A-24, <i>Carbon Monoxide Detection Systems</i>, July 2007. A-27, <i>Alternating Current (AC) Generator Sets</i>, July 2004. A-28, <i>Galvanic Isolators</i>, 2014. A-31, <i>Battery Chargers and Inverters</i>, 2013. E-2, <i>Cathodic Protection</i>, 2013. E-10, <i>Storage Batteries</i>, July 2011. E-11, <i>Alternating Current (AC) and Direct Current (DC) Electrical Systems on Boats</i>, July H-2, <i>Ventilation of Boats Using Gasoline</i>, 2013. H-3, <i>Windows, Windshields, Exterior Hatches, Doors, Port Lights and Glazing Materials</i>, 104. H-24, <i>Gasoline Fuel Systems</i>, July 2012. H-25, <i>Portable Gasoline Fuel Systems</i>, July 2010, reaffirmed 2013.
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ABYC A ABYC A	 A-4, Fire Fighting Equipment, July 2008. A-24, Carbon Monoxide Detection Systems, July 2007. A-27, Alternating Current (AC) Generator Sets, July 2004. A-28, Galvanic Isolators, 2014. A-31, Battery Chargers and Inverters, 2013. E-2, Cathodic Protection, 2013. E-10, Storage Batteries, July 2011. E-11, Alternating Current (AC) and Direct Current (DC) Electrical Systems on Boats, July H-2, Ventilation of Boats Using Gasoline, 2013. H-3, Windows, Windshields, Exterior Hatches, Doors, Port Lights and Glazing Materials, 014. H-24, Gasoline Fuel Systems, July 2012. H-25, Portable Gasoline Fuel Systems, July 2010, reaffirmed 2013.
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ABYC 2012. ABYC July 20 ABYC ABYC	 E-11, Alternating Current (AC) and Direct Current (DC) Electrical Systems on Boats, July H-2, Ventilation of Boats Using Gasoline, 2013. H-3, Windows, Windshields, Exterior Hatches, Doors, Port Lights and Glazing Materials, 014. H-24, Gasoline Fuel Systems, July 2012. H-25, Portable Gasoline Fuel Systems, July 2010, reaffirmed 2013.
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ABYC July 20 ABYC ABYC	H-3, <i>Windows, Windshields, Exterior Hatches, Doors, Port Lights and Glazing Materials</i> , 014. H-24, <i>Gasoline Fuel Systems</i> , July 2012. H-25, <i>Portable Gasoline Fuel Systems</i> , July 2010, reaffirmed 2013.
ABYC ABYC ABYC	H-24, <i>Gasoline Fuel Systems</i> , July 2012. H-25, <i>Portable Gasoline Fuel Systems</i> , July 2010, reaffirmed 2013.
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	H-26, <i>Powering of Boats</i> , July 2011.
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ABYC	Standards and Technical Information Reports for Small Craft, July 2012.
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Statement of Prob	elem and Substantiation for Public Input	
Referenced curren	t SDO contact information and national consensus standard editions.	
Submitter Informa	ation Verification	
Submitter Full Na	me: Aaron Adamczyk	
Organization:	[Not Specified]	
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Submittal Date:	Tue Jul 28 08:59:04 EDT 2020	
Committee:	FDA-AAA	



232 ABYC Publications
American Boat and Vacht Council 613 Third Street Suite 10 Annanolis MD 21/03
$ABYC \Delta_A$ Fire Fighting Equipment July 2008
ABYC A-24 Carbon Monovide Detection Systems July 2007
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2.3.13 Other Merriam-Web 2003. Additional Propo <u>File</u> 1911_PI_No8 Statement of Pro Referenced currer Submitter Inform	Publications. <i>Dester's Collegiate Dictionary</i> , 11th edition, Merriam-Webster, Inc., Springfield, MA, Seed Changes <u>Name</u> <u>Description</u> <u>Approved</u> <u>AAdamczyk.pdf</u> 1911_PI No. 8_A. Adamczyk Oblem and Substantiation for Public Input ent national consensus standard editions. Ation Verification
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2.3.13 Other Merriam-Web 2003. Additional Propo <u>File</u> 1911_PI_No8 Statement of Pro Referenced curre Submitter Inform Submitter Full N Organization:	r Publications. <i>Dester's Collegiate Dictionary,</i> 11th edition, Merriam-Webster, Inc., Springfield, MA, Desed Changes <u>Name Description Approved</u> <u>AAdamczyk.pdf</u> 1911_PI No. 8_A. Adamczyk Oblem and Substantiation for Public Input ent national consensus standard editions. Description Nerification Jame: Aaron Adamczyk [Not Specified]
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	ABYC A-24, Carbon Monoxide Detection Systems, July 2007 2015
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	ABYC H-2, Ventilation of Boats Using Gasoline, 2013.
	ABYC H-3, Windows, Windshields, Exterior Hatches, Doors, Port Lights and Glazing Materials July 2014 2019.
	ABYC H-24, <i>Gasoline Fuel Systems</i> , July 2012 <u>2017</u> .
	ABYC H-25, Portable Gasoline Fuel Systems, July 2010, reaffirmed 2013 2016.
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	ABYC H-32, Ventilation of Boats Using Diesel Fuel, 2008, reaffirmed 2013 2018.
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	ABYC P-14, Mechanical Propulsion Control Systems, December 2010 2016.
	ABYC P-17, Steering Systems for Outboard, Inboard, Sterndrive, and Water Jet Drive Boats, July 2013 2018.
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	ABYC TH-12, Outboard Engine Mounting Guide, 2017.

Update document editions. ABYC S-12 was withdrawn and published as Technical Information Report TH-12. **Submitter Information Verification** Submitter Full Name: Thomas Stalnaker **Organization: Goshen Fire Company** Affiliation: Admin Task Group Street Address: City: State: Zip: Submittal Date: Sat Sep 12 11:08:06 EDT 2020 **Committee:** FDA-AAA



2.3.4 ASME Pu	ublications.
American Socie	ty of Mechanical Engineers, Two Park Avenue, New York, NY 10016-5990
ASME B1.20.1,	Pipe Threads, General Purpose (Inch), 2013.
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	ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.
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	ASTM B648, Standard Test Method for Indentation Hardness of Aluminum Alloys by Means of Barcol Impressor, 2010 2015.
	ASTM E6, Standard Terminology Relating to Methods of Mechanical Testing, 2011 e1 2015e3.
	ASTM E10, Standard Test Method for Brinell Hardness of Metallic Materials, 2012 2018.
	ASTM E18, Standard Test Methods for Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials, 201 4 <u>2020</u> .
	ASTM E92, Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials, 2016 <u>2017</u> .
	ASTM E114, Standard Practice for Ultrasonic Pulse-Echo Straight-Beam Examination by the Contact Method <u>Testing</u> , <u>2010</u> <u>2015</u> .
	ASTM E165/E165M, Standard Test Method for Liquid Penetrant Examination , 2012 <u>Testing for</u> <u>General Industry , 2018</u> .
	ASTM E569/E569M, Standard Practice for Acoustic Emission Monitoring of Structures During Controlled Stimulation, 2013 2020.
	ASTM E650/E650M, <i>Standard Guide for Mounting Piezoelectric Acoustic Emission Sensors</i> , 2012 2017 .
	ASTM E709, Standard Guide for Magnetic Particle Examination Testing , 2014 2015.
	ASTM E797/E797M, Standard Practice for Measuring Thickness by Manual Ultrasonic Pulse- Echo Contact Method, 2010 2015.
	ASTM E1004, Standard Practice for Determining Electrical Conductivity Using the Electromagnetic (Eddy-Current) Method, 2009 <u>2017</u> .
	ASTM E1220, Standard Test Method - <u>Practice</u> for Visible Penetrant Examination-<u>Testing</u> Using the - Solvent-Removable Process, 2010 <u>2016</u> .
	ASTM E1316, Standard Terminology for Nondestructive Testing Examinations , 2013 2020.
	ASTM E1418, Standard Test Method <u>Practice</u> for Visible Penetrant Examination Using the Water-Washable Process, 2010 <u>2016</u> .
	ASTM F683, Standard Practice for Selection and Application of Thermal Insulation for Piping and Machinery, 2010 <u>2014</u> .
te	ement of Problem and Substantiation for Public Input
	Indate desument titles and version dates

Affiliation: Street Address: City: State: Zip:	Admin Task Group
Submittal Date:	Sat Sep 12 15:16:58 EDT 2020
Committee:	FDA-AAA

2.3.7 AWS Put	plications.
American Weldi	ng Society, 8669 NW 36 Street, #130, Miami, FL 33166-6672.
AWS B1.10/B1.	10M, Guide for the Nondestructive Examination of Welds, 2009 2015.
AWS B2.1/B2.1	M, Specification for Welding Procedure and Performance Qualification, 2014
AWS D1.1/D1.1	M, Structural Welding Code — Steel, 2011 <u>2020</u> .
AWS D1.2/D1.2	M, Structural Welding Code — Aluminum, 2014.
Update document v	version dates.
Update document v bmitter Informa Submitter Full Nai	version dates. tion Verification me: Thomas Stalnaker
Update document v bmitter Informa Submitter Full Nai Organization:	version dates. tion Verification me: Thomas Stalnaker Goshen Fire Company
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Public Input	No. 174-NFPA 1910-2020 [Section No. 2.3.8]
NFPA	
2.3.8 CGA Pub	plications.
Compressed Ga	as Association, 14501 George Carter Way, Suite 103, Chantilly, VA 20151
CGA G-7.1, Col	nmodity Specification for Air, 2011 2018 .
Statement of Prob	lem and Substantiation for Public Input
Update document e	edition.
Submitter Informa	tion Verification
Submitter Full Nar	ne: Thomas Stalnaker
Submitter Full Nar Organization:	ne: Thomas Stalnaker Goshen Fire Company
Submitter Full Nar Organization: Affiliation:	ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
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Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	ne: Thomas Stalnaker Goshen Fire Company Admin Task Group Sat Sep 12 15:30:13 EDT 2020




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2.4 References for Extracts in Mandatory Sections.
NFPA 11, Standard for Low-, Medium-, and High-Expansion Foam, 2016 _ 2021 edition.
NFPA 20, Standard for the Installation of Stationary Pumps for Fire Protection, 2016 _ 2022 edition.
NFPA 58, Liquefied Petroleum Gas Code, 2017 _ 2023 edition.
<u>NFPA_</u> 58, Liquefied Petroleum Gas Code, 2014 edition. NFPA-70 [®] , National Electrical Code [®] , 2017 - 2020 edition.
NFPA 99, Health Care Facilities Code, 2015 _ 2021 edition.
NFPA 302, <i>Fire Protection Standard for Pleasure and Commercial Motor Craft</i> , 2015 _ 2020 edition.
NFPA 414, Standard for Aircraft Rescue and Fire-Fighting Vehicles, 2017 edition. NFPA 100 Standard for Fire Service Professional Qualifications Accreditation and Certification Systems, 2017 _ 2022_ edition.
NFPA 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications, 2017 edition.
NFPA 1031 1030 , <u>Standard for Professional Qualifications for Fire</u> Inspector and Plan Examiner, 2014 -edition. <u>Prevention Program Positions, 2023 edition</u>
NFPA 1404, Standard for Fire Service Respiratory Protection Training, 2018 _ 2022 edition.
NFPA 1405, <i>Guide for Land-Based Fire Departments That Respond to Marine Vessel Fires</i> , 2016 _ 2020 edition.
NFPA 1451, <i>Standard for a Fire and Emergency Service Vehicle Operations Training Program</i> , 2014 _ 2021 _ edition.
NFPA 1561, <i>Standard on Emergency Services Incident Management System and Command Safety,</i> 2020 <u>edition.</u>
NFPA
1901
1900, Standard for Aircraft Rescue and Firefighting Vehicles, Automotive Fire Apparatus,
2016 edition. NFPA 1906, Standard for
Wildland Fire Apparatus,
2016
and Automotive Ambulances, 2023 edition.
<u>NFPA</u> 1911 2500, <u>Standard for the Inspection, Maintenance, Testing, and Retirement of In-Service Emergency Vehicles</u> , 2017 edition. NFPA 1983, Standard on <u>Standards for</u> Operations and Training for Technical Search and Rescue Incidents and Life Safety Rope and Equipment for Emergency Services, 2017 2022 edition.

Update due to document consolidation. Update document edition dates.

Submitter Informat	on Verification	
Submitter Full Nam	e: Thomas Stalnaker	
Organization:	Goshen Fire Company	
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Submittal Date:	Sat Sep 12 15:47:10 EDT 2020	
Committee:	FDA-AAA	





Public Input No	o. 178-NFPA 1910-2020 [Section No. 3.3.87]
3.3.87 Estimated	In-Service Weight.
The amount that the placed in service to seating positions of the seating position seating positions of the seating position seating positions of the seating position seating positing positing position seating position seating positing positing p	ne fire apparatus manufacturer estimates the apparatus will weigh when it is with all fixed and portable equipment installed, all tanks full, and all personnel beccupied. [1906 <u>1900</u> , 2016 <u>2023</u>]
Statement of Proble Update due to docum Submitter Information	m and Substantiation for Public Input
Submitter Full Name	: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Sun Sep 13 11:24:08 EDT 2020
Committee:	FDA-AAA



Public Input N	lo. 179-NFPA 1910-2020 [Section No. 3.3.210]
3.3.210 Requisi	te Knowledge.
Fundamental kno 2023]	owledge one must have in order to perform a specific task. [1031 <u>1030</u> , - 2014
Update due to docu Submitter Informat	ment consolidation. ion Verification ne: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Sun Sep 13 11:26:11 EDT 2020
Committee:	FDA-AAA

NFPA	No. 180-NFPA 1910-2020 [Section No. 3.3.211]
3.3.211 Requis	site Skills.
The essential s 2023]	kills one must have in order to perform a specific task. [1031 <u>1030</u> ,- 2014
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	lo. 192-NFPA 1910-2020 [Section No. 4.2.3.2]
4.2.3.2	
If the emergency supply pump, the system shall be p	vehicle is equipped with a fire pump, <u>wildland fire pump</u> , or an industrial fire pump system, <u>wildland fire pump system</u> , or industrial supply pump performance tested as required by Chapter 21.
Statement of Proble	em and Substantiation for Public Input
Chapter 21 covers fi	re pumps (1901) and wildland fire pumps (1906).
Submitter Informati	ion Verification
Submitter Full Nam	e: Thomas Stalnaker
Organization:	Goshen Fire Company
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Oct 27 14:10:56 EDT 2020
Committee:	FDA-AAA

Public Input I	No. 183-NFPA 1910-2020 [Section No. 4.2.8]
4.2.8 Winches	and Davits .
If the emergency davit shall_be in	y vehicle is equipped with a winch <u>and/or davit</u> , the winch shall <u>and/or</u> spected and maintained as required by Chapter 18.
The standard addre vessels.	esses winches but not davits, which are typically found on marine firefighting
Submitter Informat	tion Verification
Submitter Informat	tion Verification
Submitter Informat Submitter Full Nar Organization: Street Address: City: State: Zip:	tion Verification ne: Andrew Doyle Baltimore City Fire Department
Submitter Informat Submitter Full Nar Organization: Street Address: City: State: Zip: Submittal Date:	tion Verification ne: Andrew Doyle Baltimore City Fire Department Thu Oct 15 11:38:32 EDT 2020

4.4.1	
Inspections, ma personnel as re	intenance, and testing of emergency vehicles shall be performed by qualified quired by 4.4.1.1 or 4.4.1.2.
4.4.1.1*	
Any person perf the emergency v <u>standard</u> or the	orming diagnostic checks, inspections, performance testing, or maintenance o vehicle shall meet the qualifications of NFPA 1071 <u>chapters 47 through 49 this</u> equivalent.
4.4.1.2	
accordance with organization tha accordance with various types of	NEPA 1071 <u>chapters 47 through 49 this standard</u> or the equivalent or by an t is accredited for inspection and testing systems on fire apparatus in ISO/IEC 17020, <i>Conformity assessment</i> — <i>Requirements for the operation of bodies performing inspections</i>
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tement of Probl NFPA 1071 now pa omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	Iem and Substantiation for Public Input Irt of this document. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 13:09:36 EDT 2020

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4.4.1		
Inspections, maintenance, and personnel as required by 4.4.7	d testing of emergency vel 1.1 or 4.4.1.2.	hicles shall be performed by qualified
<u>I suggest adding an additional</u> DO to perform Daily/Weekly V run or during the week (<u>4.</u> 5.4	Qualification of Personne Valk-Around Check (Visua 4)	<u>el item (DO). NFPA 1002 requires the</u> I and Operational) within 24 hours of a
<u>4 . 3. 1_states: Inspections, Mapperformed by qualified person</u>	aintenance, and testing of nel as required by 4 <u>.</u> 3. <u>1</u>	emergency vehicles shall be .1 or 4.3.1.2
4.3.1.1 Any person performing maintenance of the emergenc equivalent.	<u>y diagnostic checks, inspe</u> <u>y vehicle shall meet the q</u>	<u>ctions, performance testing, or</u> ualifications of NFPA 1071 or hte
This wording leads me to belie equilivent to qualify to do a Vis C. I believe it to be unreasona NFPA 1071 and meet the Leve Testing to qualify as the currer	eve that all DO's must mee sual and Operational Inspe ble to think that every Fire el 1 suggestions. This cou nt text describes in NFPA	et NFPA 1071 qualifications or ection as listed in NFPA 1911 Annex Department and DO will follow Id involve both EVT testing and ASE 1071.
Suggestion: New line and renu	umber	
4.3.1 Fire Department Person the AHJ and have a minimum Vehicles to include Chassis,	nal specifically the Driver of 8 hours training on Hea	<u>Operator (DO) shall be approved by</u> avy Duty Vehicles or Emergency
DOT Inspections, and Brakes.	<u>.</u>	
(EVTCC offers a DO Level 1 E	Exam to verify basic knowl	edge of the Emergency Vehicle)
The existing 4.3.1 may becom	ne 4.3.1.1 and the followin	g numbers would all increase.
<u>4.4.1.1</u> *		
Any person performing diagno the emergency vehicle shall m	stic checks, inspections, p eet the qualifications of N	performance testing, or maintenance of FPA 1071 or the equivalent.
4.4.1.2		
Pump tests and annual aerial t accordance with NFPA 1071 o inspection and testing systems assessment — Requirements inspections.	tests shall be performed by r the equivalent or by an or s on fire apparatus in acco for the operation of variou	y personnel who are qualified in organization that is accredited for rdance with ISO/IEC 17020, <i>Conformity</i> <i>s types of bodies performing</i>
itional Proposed Changes	5	
File Name 1596030511555	Description	Approved
1911 PI No. 1 A. Conkle.pdf	1911 PI No. 1 A. Con	kle

	The current NFPA 197 1071 qualifications. N checks. NFPA 1002 & inspections within 24 I run or weekly if no run is unreasonable to be 1071 Technician.	I1 requires all personnel doing inspections, visual and operational to meet NFPA FPA 1071 has three levels identified. Level I would cover inspections, operational NFPA 1911 requires the Driver Operator (DO) to do visual and operational nours of a is. NFPA 1911 offers a template Daily/Weekly walk-around check in Annex C. It lieve that every Fire Department and Every DO will qualify as a Level I NFPA
	l propose a line descr Chassis and braking s	ibing the DO and 8 hours of mechanical training to include DOT inspections, systems as a minimum, along with approval by AHJ.
Su	bmitter Informatio	n Verification
	Submitter Full Name	: Alan Conkle
	Organization:	Ohio Association of Emergency
	Street Address:	
	City:	
	State:	
	Zip:	
	Submittal Date:	Wed Jul 29 09:46:24 EDT 2020
	Committee:	FDA-AAA

Public Input N	No. 13-NFPA 1910-2020 [Section No. 6.4.2.1
FPA	10. 10-11 A 1010-2020 [Occilon No. 0.4.2]
6.4.2	
If there are defic conduct an out- the AHJ concern	ciencies of the following systems or components, a qualified technician shall of-service evaluation and make a written report, including recommendations to ning the following:
(1) Air filter res	triction
(2) Fuel tank, r	nountings, or straps
(3) Exhaust lea	ak into crew compartment
(4) Oil that con	tains coolant
(5) Oil that is d	iluted with fuel
dditional Propose <u>File Nam</u>	ed Changes ne <u>Description Approved</u>
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tatement of Probl 6.4.2 (4) Oil that cod This shoud be in the renumbered to 5,6,7	Conkle.pdf 1911_PI No. 5_A. Conkle em and Substantiation for Public Input contains coolant e OUT OF SERVICE section 6.4.1 (3) and the others renumbered. 6.4.1(3,4,5 7)
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Public Input N	lo. 14-NFPA 1910-2020 [Section No. 6.4.2]
NFPA	
6.4.2	
If there are defic conduct an out-o the AHJ concerr	ciencies of the following systems or components, a qualified technician shall of-service evaluation and make a written report, including recommendations to ning the following:
(1) Air filter res	triction
(2) Fuel tank, n	nountings, or straps
(3) Exhaust lea	ik into crew compartment
(4) Oil that con	tains coolant
(5) Oil that is d	iluted with fuel
Additional Propose	ed Changes
File Nam	<u>ne Description Approved</u>
1911_PI_No6_A.	_Conkle.pdf 1911_PI No. 6_A. Conkle
Statement of Probl	om and Substantiation for Public Input
	en and Substantiation for Public input
6.4.2 (5) Oil that is o	tiluted with fuel
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6.4.1 (4 and 5) renu	I be placed back into 6.4.1 Out of Service and become 6.4.1 (4) and move the mbered.
6.4.1 (4 and 5) renu Oil that is diluted wit failure and seizure.	I be placed back into 6.4.1 Out of Service and become 6.4.1 (4) and move the imbered. th fuel will cause a failure in the lubrication system and cause catastrophic engine This will cause a Safety issue if on an emergency scene and or continued
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6.4.1 (4 and 5) renu Oil that is diluted wit failure and seizure. operation. This used importance,. Need t Conduct out of Serv Submitter Informat Submitter Full Nan Organization: Street Address: City: State: Zip: Submittal Date:	I be placed back into 6.4.1 Out of Service and become 6.4.1 (4) and move the imbered. th fuel will cause a failure in the lubrication system and cause catastrophic engine This will cause a Safety issue if on an emergency scene and or continued d to be a Out of Service item and this 2017 version has been reduced in o be Out of Service and not vice Evaluation, as this is certain catastrophic engine failure. ion Verification ne: Alan Conkle Ohio Association of Emergency Wed Jul 29 09:59:22 EDT 2020



Publ	ic Input No. 29-NFPA 1910-2020 [New Section after 6.12]
<u>TITL</u> 6.13	<u>.E OF NEW CONTENT</u> ARFF Vehicle Out of Service Criteria
<u>6.13.</u>	1 Driving and Crew Areas, Apparatus Body, and Compartmentation
<u>6.13.</u>	1.1 A vehicle shall be placed out of service if the window deluge system is inoperative.
<u>6.13.</u>	3 Chassis, Axles, Steering, and Suspension Systems, Driveline, Wheels and Tires
<u>6.13.</u>	3.1 A vehicle shall be placed out of service if a planetary axle/wheel end has a class 3 leak.
<u>6.13.</u> condu	3.2 If a vehicle driveline locking system does not operate as intended, a qualified technician shall uct an out-of-service evaluation and make a written report, including recommendations to the AHJ.
<u>6.13.</u>	3.3 The vehicle shall be placed out of service if a vehicle driveline locking system fails to disengage
<u>6.13.</u> manu	3.4 A vehicle shall be placed out of service if the tire does not meet or exceed the vehicle factures tire ratings, such as but not limited to speed and load rating.
<u>6.14.</u>	4 Engine Systems
<u>6.13.4</u> specia evalu	4.1 If the vehicle cannot achieve performance requirements for acceleration and top speeds, as fied in NFPA 414 section 4.4.1.2 and 4.4.1.2.1, a qualified technician shall conduct an out-of-servic ation and make a written report, including recommendations to the AHJ.
<u>6.13.</u>	5 Power Divider and Modulating Clutch
<u>6.13.</u>	5.1 A vehicle shall be placed out of service if a power divider has a class 3 leak.
<u>6.13.</u> make	5.2 If a power divider overheats a qualified technician shall conduct an out-of-service evaluation an a written report, including recommendations to the AHJ.
_ <u>6.13</u> of-ser	.5.3 If power divider has oil contamination the vehicle a qualified technician shall conduct an outrvice evaluation and make a written report, including recommendations to the AHJ.
<u>6.13.</u> qualit recon	5.4 If the modulating clutch has any slippage when it is fully engaged in the normal driving mode a fied technician shall conduct an out-of-service evaluation and make a written report, including numerications to the AHJ.
<u>6.13.</u>	5.5 A vehicle shall be placed out of service if the vehicle cannot pump and roll.
<u>6.13.</u>	6 Braking Systems
<u>6.13.0</u> NFPA evalu	6.1 If it cannot achieve the performance standards for service brake stopping distance, as specified in A 414 4.10.2.2, 4.10.2.3, and 4.10.2.4, a qualified technician shall conduct an out-of-service ation and make a written report, including recommendations to the AHJ.
<u>6.13.'</u>	7 Fire Pump System
<u>6.13.'</u>	7.1 A vehicle shall be placed out of service if a fire pump will not engage or disengage
(12)	7.2 If there are any deficiencies in the fire nump drive system a qualified technician shall conduct a

out-of-service evaluation and make a written report, including recommendations to the AHJ.

<u>6.13.7.3</u> The vehicle shall be placed out of service if the pump cannot supply the primary turret to meet its performance specifications as specified in NFPA 414 6.4.12.

<u>6.13.7.4</u> The vehicle shall be taken out of service if any deficiency exists that inhibits the delivery and replenishment of water to the pump.

<u>6.13.7.5</u> The vehicle shall be placed out of service if the water pump cannot maintain system pressure based on manufacturers recommendations.

6.13.8 Foam System

<u>6.13.8.1</u> The vehicle shall be placed out of service if the foam system has any defects or deficiencies that cause the primary turret concentration or delivery to not meet the specified concentration and condition as specified in NFPA 412 5.1 and 5.2.

<u>6.13.8.2</u> The vehicle shall be taken out of service if any conditions exists which inhibits the re-filling of the foam tank.

<u>6.13.8.3</u> If any foam capable discharge other than primary turret is out of specification for concentration and condition, as specified in NFPA 412 5.1 and 5.2, a qualified technician shall conduct an out-of-service evaluation and make a written report, including recommendations to the AHJ.

6.13.9 Turrets

<u>6.13.9.1</u> The vehicle shall be placed out of service if the dual rate primary turrets, cannot meet the specified flow rate in the high flow rate mode.

<u>6.13.9.2</u> The vehicle shall be taken out of service if the primary turret cannot meet the NFPA 414 4.19.5 (1-3) for turret operational capabilities.

<u>6.13.9.3</u> If the primary turret operation malfunctions, as specified in NFPA 414 4.19.1, 4.19.2, 4.19.3, 4.19.4.1, 4.19.4.2, 4.19.5 (4-5), a qualified technician shall conduct an out-of-service evaluation and make a written report, including recommendations to the AHJ.

6.13.10 Extendable Turret

6.13.10.1 The vehicle shall be taken out of service if the extendable turret cannot be stowed.

<u>6.13.10.2</u> If the following conditions exist the extendable boom shall be taken out of service, a qualified technician shall conduct a vehicle out-of-service evaluation and make a written report, including recommendations to the AHJ.

<u>**1.**</u> PTO that will not engage

2. Hydraulic system components not operational

3. Cables that are frayed

4. Extendable boom device that is structurally deformed

5. <u>Turntable fasteners that are broken or missing, damaged bearings.</u>

<u>6.</u> Extendable boom mounting system that is deformed, damaged, has missing or cracked bolts.

<u>7. Extendable boom functions will not raise, lower, extend, retract, or rotate with the use of the primary controls.</u>

<u></u>	mmentary Agents
<u>6.13.11.1</u> If an	y complimentary agent system does not function as intended, a qualified technician shall
conduct an ou	t-of-service evaluation and make a written report, including recommendations to the AHJ.
<u>6.13.12 Winte</u>	erization Systems
<u>6.13.12.1</u> If th service evalua	ere is any defect in the winterization system, a qualified technician shall conduct an out-of- tion and make a written report, including recommendations to the AHJ.
	will be submitted as a new chapter 6.13 based on the current numbering for 1911
Statement of Pro	oblem and Substantiation for Public Input
This is additional Committee.	I information to cover Aircraft Rescue Firefighting Vehicle form the ARFF Tech
Committee.	I information to cover Aircraft Rescue Firefighting Vehicle form the ARFF Tech
Submitter Full I	I information to cover Aircraft Rescue Firefighting Vehicle form the ARFF Tech nation Verification Name: Robert Mathis
Submitter Inform Submitter Inform	I information to cover Aircraft Rescue Firefighting Vehicle form the ARFF Tech nation Verification Name: Robert Mathis The Port Of Portland Fire And Rescue
Submitter Inform Submitter Full I Organization: Street Address	I information to cover Aircraft Rescue Firefighting Vehicle form the ARFF Tech nation Verification Name: Robert Mathis The Port Of Portland Fire And Rescue
Submitter Inform Submitter Inform Submitter Full I Organization: Street Address City:	I information to cover Aircraft Rescue Firefighting Vehicle form the ARFF Tech nation Verification Name: Robert Mathis The Port Of Portland Fire And Rescue
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Submitter Inform Submitter Inform Submitter Full I Organization: Street Address City: State: Zip: Submittal Date:	I information to cover Aircraft Rescue Firefighting Vehicle form the ARFF Tech nation Verification Name: Robert Mathis The Port Of Portland Fire And Rescue Wed Aug 26 11:21:30 EDT 2020

Public Input N	No. 10-NFPA 1910-2020 [Section No. 8.3.3]
8.3.3*	
Tires shall be ins recommended p	spected for damage and shall be inflated to the tire manufacturer's ressure.
Revise A.8.3.3 a recommended t recommended	and A.16.2.8 Appendix states to follow the emergency vehicle manufacture's ire pressure. Conflicts with 8.3.3 which states "Tire manufacturers
pressure".	
Emergency Veh they are put into commonly adde	icles commonly are weighed at the manufacturer when new, however after o service the compartments are typically changed around and weight d. Thus NFPA
<u>1911 requires th</u> specific inflation confusion.	ne emergency apparatus be weighed annually. Tire manufacture's have a recommendations for tires. This is a safety issure and the Appendix leads to
File Nam	ne <u>Description</u> <u>Approved</u>
File Nan 1911_PI_No2_A. Statement of Probl	ne <u>Description</u> <u>Approved</u> _Conkle.pdf 1911_PI No. 2_A. Conkle em and Substantiation for Public Input
File Nan 1911_PI_No2_A. Statement of Probl The reader is confu only to find conflictin vehicles as they are in-service.	ne Description Approved _Conkle.pdf 1911_PI No. 2_A. Conkle em and Substantiation for Public Input sed while trying to follow the standard and reads 8.3.3* then reads the appendices ng statements. The Appendices read the NFPA 1901 terminology for "New" e manufactured and do not reflect the emergency vehicle after it has been placed
File Nan 1911_PI_No2_A. Statement of Probl The reader is confu only to find conflictin vehicles as they are in-service.	ne Description Approved _Conkle.pdf 1911_PI No. 2_A. Conkle em and Substantiation for Public Input sed while trying to follow the standard and reads 8.3.3* then reads the appendices ng statements. The Appendices read the NFPA 1901 terminology for "New" e manufactured and do not reflect the emergency vehicle after it has been placed tion Verification
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10.1.1	
If the fire appara pump, <u>or wildlan</u> Section 10.2 and	atus is equipped with a fire pump, auxiliary pump, industrial pump, or- transfer ad fire pump;_ the pump shall be inspected and maintained in accordance with d the component manufacturer's recommendations.
ement of Probl	em and Substantiation for Public Input
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	and a second s
iciude wiidiand lire	e pumps in the scope of this chapter.
mitter Informat	e pumps in the scope of this chapter.
mitter Informat	e pumps in the scope of this chapter. tion Verification ne: Thomas Stalnaker
mitter Informat Submitter Full Nar Organization:	e pumps in the scope of this chapter. tion Verification ne: Thomas Stalnaker Goshen Fire Company
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Submitter Information Submitter Full Nan Organization: Street Address: City: State: Zip: Submittal Date:	tion Verification ne: Thomas Stalnaker Goshen Fire Company Tue Oct 27 17:43:04 EDT 2020

Public Input PA	No. 194-NFPA 1910-2020 [Section No. 10.2.1]
10.2.1* Genera	al.
All fire pumps, a shall be inspect diagnostically cl	uxiliary pumps, industrial pumps, and transfer pumps, and wildland fire pumps ed for security of mounting, structural integrity, and leakage and shall be necked.
Include wildland fire	e pumps in the scope.
Include wildland fire	e pumps in the scope. tion Verification
Include wildland fire Jbmitter Informa Submitter Full Nar Organization: Street Address: City:	e pumps in the scope. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Include wildland fire Jbmitter Informa Submitter Full Nar Organization: Street Address: City: State: Zip:	e pumps in the scope. tion Verification ne: Thomas Stalnaker Goshen Fire Company

Public Input I	No. 214-NFPA 1910-2020 [Section No. 15.3]
NFPA	
15.3 Labels.	
All warning <u>signs</u> and legibility.	<u>s</u> , function <u>labels</u> , and instruction labels <u>plates</u> shall be inspected for condition
Statement of Probl	em and Substantiation for Public Input
Per the definitions a and other NFPA do A Label gives identi An Instruction Plate A Sign gives a warr NFPA 1910 should these items when th	and consistent usage in NFPA 1901/1906/1917/1900, the NFPA Glossary of Terms, cuments: fication or information gives instructions ning. use the same terminology as NFPA 1900 and other NFPA documents use about ne apparatus is built.
Related Public Inp	uts for This Document
	Related Input Relationship
Public Input No. 21	<u>3-NFPA 1910-2020 [Section No. 19.2.1]</u>
Submitter Informat	ion Verification
Submitter Full Nan	ne: Thomas Stalnaker
Organization:	Goshen Fire Company
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Fri Oct 30 15:50:27 EDT 2020
Committee	



<u>19.5.6</u> Torque Boxes shall be inspected for security of mounting, deformation, diagnostically checked, and maintained.

19.6 Foam Systems

<u>**19.6.1**</u> Foam transfer pumping systems shall be inspected for leaks, security of mounting, deformation, diagnostically checked, and maintained.

19.6.2 Foam tanks vents shall be inspected for deformation and diagnostically checked.

19.7 Complimentary Systems

<u>**19.7.1**</u> Mounting system for propellant storage tank shall be inspected for security of mounting, deformation, and diagnostically checked.

<u>19.7.2</u> Mounting system for agent tank shall be inspected for security of mounting, deformation, and diagnostically checked.

<u>19.7.3</u> Agent storage tank shall be inspected for leaks, security of mounting, deformation, and diagnostically checked.

<u>19.7.4</u> Lifting system, supports, and straps shall be inspected for leaks, security of mounting, deformation, and diagnostically checked.

<u>19.7.5</u> Pressure regulators shall be inspected for leaks, security of mounting, deformation, and diagnostically checked.

<u>**19.7.6**</u> Controls, valves, actuators, and hoses shall be inspected for leaks, security of mounting, deformation, and diagnostically checked.

<u>19.7.7</u> Pressure indicating devices shall be inspected for leaks, security of mounting, deformation, and diagnostically checked.

19.7.8 Complimentary agent shall be inspected for leaks, quantity, and diagnostically checked.

<u>19.7.9</u> The complimentary agent system components not designed to continuously contact the complimentary agent shall be thoroughly flushed after each use to ensure all piping and components are clear of agent.

19.7.10 The complimentary propellant system pressurized cylinders shall be inspected for current hydrostatic test date.

19.8 Hose reels, hand lines, preconnects

<u>19.8.1</u> Hose reels, hand lines and preconnected lines shall be inspected for leaks, security of mounting, deformation, diagnostically checked, and maintained.

<u>**19.8.2**</u> Controls, valves, actuators, and hoses shall be inspected for leaks, security of mounting, deformation, and diagnostically checked.

<u>19.8.3</u> Rewind systems shall be inspected for leaks, security of mounting, deformation, diagnostically checked, and maintained.

<u>19.8.4</u> Flow switches shall be inspected for leaks, security of mounting, deformation, and diagnostically checked.

<u>**19.8.5**</u> Hose reel brake systems shall be inspected for security of mounting, deformation, diagnostically checked and maintained.

19.8.6 Nozzle holders shall be inspected for security of mounting, and deformation.

19.8.7 Back up hand crank shall be inspected for security of mounting, deformation, and presence.

19.9 Winterization

<u>19.9.1</u> Winterization package/kit shall be inspected for leaks, security of mounting, deformation, diagnostically checked, and maintained.

19.10 Turrets

19.10.1 Turret systems shall be inspected for leaks, security of mounting, deformation, corrosion, diagnostically checked under operational pumping system pressure, and maintained.

19.10.2 Turret system back-up/manual controls shall be diagnostically checked.

<u>19.10.3</u> Complimentary agent hoses used in conjunction with turret shall be inspected for leaks, security of mounting, and deformation.

<u>19.10.4</u> Nozzle(s) shall be checked for damage, debris or other obstructions that impact the flow or discharge pattern.

19.11 Extendable Turret

19.11.1 Extendable turrets shall be inspected and diagnostically checked and maintained according to manufacturer specifications.

19.11.2 Three-way valves shall be inspected for leaks, corrosion, security of mounting, deformation, and diagnostically checked.

19.11.3 Piercing tip and clutches shall be inspected for security of mounting, deformation, structural integrity and diagnostically checked.

<u>19.11.4</u> Emergency back-up systems shall be inspected for leaks, security of mounting, deformation, diagnostically checked, and maintained according to manufacturer specifications.

<u>19.11.5</u> Extendable turret piping and hoses shall be inspected for leaks, security of mounting, and deformation.

<u>19.11.6</u> The diagnostic codes for extendable turrets shall be reviewed for types and frequency of error codes that have been logged.

19.11.7 Mounting hardware shall checked and torqued to manufacturer's recommendations

19.12 Under Truck Nozzles

19.12.1 Under truck nozzles shall be inspected for security of mounting, deformation, corrosion, and diagnostically checked.

19.13 Electrical

19.13.1 Low voltage electrical systems will be diagnostically checked for an excessive parasitic drain.

[HK1] This will be submitted as a new chapter 19 based on the current numbering for 1911 (2017).

Statement of Problem and Substantiation for Public Input

This is the New proposed Chapter 19 from the ARFF Tech Committee.

Submitter Information Verification

Submitter Full Name: Robert MathisOrganization:The Port Of Portland Fire And RescueStreet Address:-City:-State:-Zip:-Submittal Date:Wed Aug 26 11:16:44 EDT 2020Committee:FDA-AAA



19.2.1

The fully loaded emergency vehicle shall be weighed following the procedure specified in 19.2.2 through 19.2.5 to ensure that the weight on the front and rear axles and the gross vehicle weight do not exceed the gross axle weight ratings (GAWRs) and the gross vehicle weight rating (GVWR) or gross combination weight rating (GCWR) as shown on the rating plate-label on the emergency vehicle.

Statement of Problem and Substantiation for Public Input

Per the definitions and consistent usage in NFPA 1901/1906/1917/1900, the NFPA Glossary of Terms, and other NFPA and NHTSA documents: A Label gives identification or information An Instruction Plate gives instructions A Sign gives a warning. NFPA 1910 should use the same terminology as NFPA 1900 and other NFPA documents use about these items when the apparatus is built.

Related Public Inputs for This Document

Related Input

Relationship

 Public Input No. 212-NFPA 1910-2020 [Section No. 19.2.4]

 Public Input No. 211-NFPA 1910-2020 [Section No. 21.7.2.2]

 Public Input No. 210-NFPA 1910-2020 [Section No. 22.9.6.7]

 Public Input No. 209-NFPA 1910-2020 [Section No. 28.20.4]

 Public Input No. 208-NFPA 1910-2020 [Section No. 28.20.3]

 Public Input No. 208-NFPA 1910-2020 [Section No. 29.20.3]

 Public Input No. 207-NFPA 1910-2020 [Section No. 48.2.2]

 Public Input No. 206-NFPA 1910-2020 [Section No. 6.3]

 Public Input No. 205-NFPA 1910-2020 [Section No. J.1]

 Public Input No. 214-NFPA 1910-2020 [Section No. 15.3]

 Public Input No. 215-NFPA 1910-2020 [Section No. 33.5]

 Public Input No. 216-NFPA 1910-2020 [Section No. 33.5]

Submitter Information Verification

Submitter Full Name:	Thomas Stalnaker
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Submittal Date:	Fri Oct 30 15:27:21 EDT 2020
Committee:	FDA-AAA



Zip: Submittal Date: Committee:

Fri Oct 30 15:26:34 EDT 2020 FDA-AAA

Public Input N	lo. 195-NFPA 1910-2020 [Section No. 19.2.5]
19.2.5	
If <u>all</u> <u>any</u> of the the vehicle shall reserve values a	reserve capacity values (line F of Figure 19.2.4) are not positive, equipment on be removed or redistributed as necessary and the vehicle reweighed until all re positive.
Statement of Proble Improved wording. T positive. The existing is less likely to be m Submitter Informat	em and Substantiation for Public Input There is a problem to be worked on if ANY of the reserve capacities are not g wording could be misinterpreted or correctly interpreted. The proposed wording isinterpreted.
Submitter Full Nam	ne: Thomas Stalnaker
Organization:	Goshen Fire Company
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	T 0 / 07 /0 00 00 FBT 0000
Submittal Date:	Tue Oct 27 18:20:02 EDT 2020
Committee:	FDA-AAA

Public Input I	No. 182-NFPA 1910-2020 [Section No. 20.4.2.1]
A	
20.4.2.1	
The voltage drop input post on the terminal (not the	p in the positive (+) starter wiring shall be measured between the positive (+) e starter <u>solenoid</u> (not the wire or connector) and the positive (+) battery e wire or connector).
Voltage drop readir solenoid can have u	ngs, when taken through the starter solenoid will be higher. The contacts in a up to a 0.3 volt drop before the solenoid is considered defective.
Voltage drop readir solenoid can have t omitter Informat	ngs, when taken through the starter solenoid will be higher. The contacts in a up to a 0.3 volt drop before the solenoid is considered defective. tion Verification
Voltage drop readir solenoid can have t omitter Informat Submitter Full Nar	ngs, when taken through the starter solenoid will be higher. The contacts in a up to a 0.3 volt drop before the solenoid is considered defective. tion Verification me: Stephen Wilde
Voltage drop readir solenoid can have t omitter Informat Submitter Full Nar Organization:	ngs, when taken through the starter solenoid will be higher. The contacts in a up to a 0.3 volt drop before the solenoid is considered defective. tion Verification me: Stephen Wilde Certified Fleet Services, Inc.
Voltage drop readir solenoid can have t omitter Informat Submitter Full Nar Organization: Street Address:	ngs, when taken through the starter solenoid will be higher. The contacts in a up to a 0.3 volt drop before the solenoid is considered defective. tion Verification me: Stephen Wilde Certified Fleet Services, Inc.
Voltage drop readir solenoid can have to omitter Informat Submitter Full Nar Organization: Street Address: City:	ngs, when taken through the starter solenoid will be higher. The contacts in a up to a 0.3 volt drop before the solenoid is considered defective. tion Verification me: Stephen Wilde Certified Fleet Services, Inc.
Voltage drop readir solenoid can have to omitter Informat Submitter Full Nar Organization: Street Address: City: State:	ngs, when taken through the starter solenoid will be higher. The contacts in a up to a 0.3 volt drop before the solenoid is considered defective. tion Verification me: Stephen Wilde Certified Fleet Services, Inc.
Voltage drop readir solenoid can have a omitter Informat Submitter Full Nar Organization: Street Address: City: State: Zip:	ngs, when taken through the starter solenoid will be higher. The contacts in a up to a 0.3 volt drop before the solenoid is considered defective. tion Verification me: Stephen Wilde Certified Fleet Services, Inc.
Voltage drop readir solenoid can have a omitter Informat Submitter Full Nar Organization: Street Address: City: State: Zip: Submittal Date:	ngs, when taken through the starter solenoid will be higher. The contacts in a up to a 0.3 volt drop before the solenoid is considered defective. tion Verification me: Stephen Wilde Certified Fleet Services, Inc. Mon Oct 12 10:38:43 EDT 2020

20.4.3	
The voltage dro 0. <u>2</u> <u>1</u> volts <u>per</u> <u>draw</u> for a 24-ve	p in each side of the wiring <u>the positive or negative circuits</u> shall not exceed <u>100 amps of draw</u> for a 12-volt nominal system or 0.4– <u>2</u> volts <u>per 100 amps of</u> olt nominal system.
the .02 volt drop on	a starting system without an amp draw is misleading industry experts recommendation
0.1 volt drop per 10 mitter Informa	tion Verification
0.1 volt drop per 10 mitter Informat Submitter Full Nar	io amps of draw. tion Verification ne: Stephen Wilde
0.1 volt drop per 10 mitter Informat Submitter Full Nar Organization:	 amps of draw. tion Verification ne: Stephen Wilde Certified Fleet Services, Inc.
0.1 volt drop per 10 mitter Informat Submitter Full Nar Organization: Street Address:	 amps of draw. tion Verification ne: Stephen Wilde Certified Fleet Services, Inc.
0.1 volt drop per 10 mitter Informat Submitter Full Nar Organization: Street Address: City:	io amps of draw. tion Verification ne: Stephen Wilde Certified Fleet Services, Inc.
0.1 volt drop per 10 mitter Informat Submitter Full Nar Organization: Street Address: City: State:	io amps of draw. tion Verification ne: Stephen Wilde Certified Fleet Services, Inc.
0.1 volt drop per 10 mitter Informat Submitter Full Nar Organization: Street Address: City: State: Zip:	io amps of draw. tion Verification ne: Stephen Wilde Certified Fleet Services, Inc.
0.1 volt drop per 10 mitter Informat Submitter Full Nar Organization: Street Address: City: State: Zip: Submittal Date:	0 amps of draw. tion Verification ne: Stephen Wilde Certified Fleet Services, Inc. Mon Oct 12 10:31:27 EDT 2020



ACCEPTANCE TESTING (3.3.2)- One method to insure the vehicle can conform to the required performance standards in the 1911 maintenance standard is to include all 1911 performance testing as a required part of the apparatus acceptance test. This would provide extremely valuable information to the AHJ purchasing the vehicle and their maintenance personnel. I completely understand and fully support the critical need for regular accurate performance testing and the valuable information it provides to forecast the decline of a system prior to a catastrophic failure. That said, these and all the requirements of the NFPA documents should be consistent between the design standards and the maintenance standards and that information provided to the Purchaser and their technicians as part of a unit specific "As Built Document". Submitter Information Verification Submitter Full Name: Boyd Clegg **Organization:** Calif Fire Mechanics Academy **Street Address:** City: State: Zip: Mon Oct 19 09:06:17 EDT 2020 **Submittal Date: Committee:** FDA-AAA


Γ

20.8 * _ Total Contin	uous Electrical Load Test
20.8.1 –	
The total continuous other electrical or pu	electrical load test shall be permitted to be conducted simultaneously with mping tests.
20.8.2 –	
The voltage measure volts or better.	ements for this test shall be made with a voltmeter with a resolution of 0.0
20.8.3 –	
The following test pr	ocedure shall be used:
(1) Advance the en	gine speed to at least 50 percent of the governed speed of the engine.
(2) [*] Turn on all load associated with t	Is that comprise the total continuous electrical load, except loads he following:
(3) Aerial hydra	ulic pump
(4) Foam pump	
(5) Hydraulic-dr	iven equipment
(6) Winch	
(7) Windshield v	vipers
(8) Four-way ha	zard flashers
(9) Compressed	Lair foam system (CAFS) compressor
(10) Measure the ba	ttery voltage at the battery terminals.
(11) Operate the em 20.8.3(3) -conti system if the ve	ergency vehicle under the conditions specified in 20.8.3(1) through nuously for at least 20 minutes, with load shedding permitted by the hicle is equipped with an automatic electrical load management system.
(12) Measure the ba	ttery voltage at the battery terminals.
(13) Turn off electric testing.	al loads and reduce engine speed, unless required for other simultaneous
20.8.4 * –	
If the voltage drop ex considered a failure.	xceeds 0.05 volts from the beginning to the end of the test, the test shall
tional Proposed (Changes
File Name	Description Approved
911_PI_No24_SW	/ilde.pdf 1911 PI No. 24 S. Wilde

The committee needs to either delete this section or totally rewrite it. Performance tests are supposed to be performed to test performance to a predetermined specifications. Since there are no predetermined anything in this section it can not be a performance test. Also, 20.8.4 is about voltage drops, but the section doesn't say what systems should be tested for voltage drops during this procedure.

Submitter Information Verification				
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Sul	bmittal Date:	Wed Jul 29 10:54:02 EDT 2020		
Co	mmittee:	FDA-AAA		

Г

Public Input No. 31-NFPA 1910-2020 [Section No. 21.5.1.1]					
21.5.1.1* Suctio	21.5.1.1* Suction Hose and Strainer from Draft.				
When a pump is tested from draft at elevations up to 2000 ft (610 m), the suction hose arrangement shall be as specified in NFPA 1901 and NFPA 1906 <u>1900</u> for the particular pump capacity rating <u>and pump type</u> .					
Statement of Problem and Substantiation for Public Input NFPA 1901 and NFPA 1906 are now part of NFPA 1900. Submitter Information Verification					
Submitter Full Nam	e: Thomas Stalnaker				
Organization:	Goshen Fire Company				
Affiliation:	Admin Task Group				
Street Address:					
City:					
State:					
Zip:					
Submittal Date:	Tue Sep 01 13:13:19 EDT 2020				
Committee:	FDA-AAA				

21.5.4.3 –	
A manometer s tests are being	hall be permitted to be used in lieu of a pump intake gauge, provided that the conducted from draft.
tement of Prob	lem and Substantiation for Public Input
We should not be e environmental haza	encouraging, or allowing, the use of a mercury manometer with its associated ards. The corresponding section was removed from 1901 and 1906 in the 2016
editions. Initter Informa	tion Verification
editions. Initter Informa Submitter Full Na	tion Verification me: Thomas Stalnaker
editions. D mitter Informa Submitter Full Nar Organization:	tion Verification me: Thomas Stalnaker Goshen Fire Company
editions. Dimitter Informa Submitter Full Nar Organization: Street Address:	tion Verification me: Thomas Stalnaker Goshen Fire Company
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editions. Dimitter Informa Submitter Full Nar Organization: Street Address: City: State: Zip:	tion Verification me: Thomas Stalnaker Goshen Fire Company
editions. Demitter Informa Submitter Full Nar Organization: Street Address: City: State: Zip: Submittal Date:	tion Verification me: Thomas Stalnaker Goshen Fire Company Wed Oct 28 10:31:41 EDT 2020

	NO. 32-NI FA 1910-2020 [Section No. 21.0.2.2.1]			
21.6.2.2.1*	21.6.2.2.1			
If the fire apparatus was built to the 1996 or later editions of NFPA 1901 or to NFPA 1900 and the apparatus is equipped with a fixed power source driven by the same engine that drives the fire pump, the power source shall be running at a minimum of 50 percent of its rated capacity throughout the pumping portion of the pump test.				
tement of Prob	lem and Substantiation for Public Input			
NFPA 1901 now re	placed with NEPA 1900.			
NFPA 1901 now re	placed with NFPA 1900.			
NFPA 1901 now re omitter Informa	placed with NFPA 1900. tion Verification			
NFPA 1901 now re omitter Informa Submitter Full Nar	placed with NFPA 1900. tion Verification ne: Thomas Stalnaker			
NFPA 1901 now re omitter Informa Submitter Full Nar Organization:	placed with NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company			
NFPA 1901 now re omitter Informa Submitter Full Nar Organization: Affiliation:	placed with NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group			
NFPA 1901 now re omitter Informa Submitter Full Nar Organization: Affiliation: Street Address:	placed with NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group			
NFPA 1901 now re omitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City:	placed with NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group			
NFPA 1901 now re omitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State:	placed with NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group			
NFPA 1901 now re omitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	placed with NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group			
NFPA 1901 now re omitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	placed with NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 13:15:35 EDT 2020			

Γ

PA	Public Input No. 18-NFPA 1910-2020 [New Section after 21.7.1]			
	21.7.1.2 List of Required Tests.			
	The required tests to be performed as part of the Performance testing of Fire Pumps, Wildland Fire Pumps,			
	Ultra-High-Pressure pumps and Industrial Supply pumps are listed below.			
(1) Engine Speed Test.				
	(2) Pump Shift Indicator Test.			
	(3) Pump Engine Control Interlock Test.			
	(4) Priming System Tests.			
	(5) Vacuum Tests.			
	(6) Pumping System Tests.			
	(7) Pressure Control System Tests.			
	(8) Intake Relief Valve System Test.			
	(9) Gauge Test.			
	(10) Flowmeter Test			
	(11) Tank-to-Pump Flow Rate Test			
dit	ional Proposed Changes			
19	File Name Description Approved 011_PI_No16_SWilde.pdf 1911_PI No. 16_S. Wilde			
Th ne bm	nent of Problem and Substantiation for Public Input e committee needs to discuss listing all of the required tests, so the users understand that all tes ed to be done every time the performance test of the pumping system is done. hitter Information Verification			
S.,	bmitter Full Name: Stephen Wilde			
Or	ganization: Certified Fleet Services, Inc.			
Sti	reet Address:			
Cit	y.			

Submittal Date:Wed Jul 29 10:21:29 EDT 2020Committee:FDA-AAA

Public Input N	lo. 19-NFPA 1910-2020 [Section No. 21.7.2]				
NFPA					
2172 Engine S	2172 Engine Speed Check Test				
21.7.2.1	21.7.2 Engine Opeen oneek <u>rest</u>.				
A check test of	A check test of the governed engine speed shall be made				
21.7.2.2	21 7 2 2				
The engine spee pump test plate.	The engine speed shall be within ±50 rpm of the governed engine speed as recorded on the pump test plate.				
21.7.2.3					
The reason for a if the discrepanc	ny discrepancy shall be determined prior to testing, and testing shall begin only y will not have an adverse effect on the outcome of the test.				
<u>File Nam</u> 1911_PI_No17_S	<u>e Description Approved</u> Wilde.pdf 1911_PI No. 17_S. Wilde				
Statement of Proble	em and Substantiation for Public Input				
the standard uses the change the word to	ne word check in other contexts, in keeping with testing to a know figure we need to "Test"				
Submitter Informat	ion Verification				
Submitter Full Nam	1e: Stephen Wilde				
Organization:	Certified Fleet Services, Inc.				
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State:					
Zip:					
Submittal Date:	VVed Jul 29 10:34:27 ED1 2020 ΕΠΔ_ΔΔΔ				
Committee.					

Public Input No. 211-NFPA 1910-2020 [Section No. 21.7.2.2] 21.7.2.2 The engine speed shall be within ±50 rpm of the governed engine speed as recorded on the pump test plate label .				
21.7.2.2 The engine speed shall be within ±50 rpm of the governed engine speed as recorded on the pump test plate <u>label</u> .				
21.7.2.2 The engine speed shall be within ±50 rpm of the governed engine speed as recorded on the pump test plate <u>label</u> .				
21.7.2.2 The engine speed shall be within ±50 rpm of the governed engine speed as recorded on the pump test <u>plate label</u> .				
The engine speed shall be within ±50 rpm of the governed engine speed as recorded on the pump test plate <u>label</u> .				
Statement of Problem and Substantiation for Public Input				
Per the definitions and consistent usage in NFPA 1901/1906/1917/1900, the NFPA Glossary of Terms, and other NFPA documents: A Label gives identification or information An Instruction Plate gives instructions A Sign gives a warning. NFPA 1910 should use the same terminology as NFPA 1900 and other NFPA documents use about these items when the apparatus is built.				
Related Input				
Public Input No. 213-NFPA 1910-2020 [Section No. 19.2.1]				
Submitter Information Verification				
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Committee: FDA-AAA				



Public Input No. 197-NFPA 1910-2020 [Section No. 21.7.4]

21.7.4* Pump Engine Control Interlock.

[IN THE 2016 EDITION OF NFPA 1901 AND NFPA 1906, THE CORRESPONDING SECTION (16.13.8) WAS REVISED TO TEST MORE COMBINATIONS OF CONDITIONS, INDICATORS, AND CONTROL. THE COMMITTEE SHOULD CONSIDER WHETHER THE TESTS HERE SHOULD BE EXPANDED TO AT LEAST TEST THAT EACH SENSOR (TRANSMISSION GEAR, PARKING BRAKE, AND PUMP SHIFT) DISABLES THROTTLE CONTROL, OR THE FULL SET OF COMBINATIONS AS IN NFPA 1900 SECTION 19.13.8.]

For apparatus where the chassis engine drives the pump and electric or electronic engine throttle controls are provided, a test of the interlock that controls the advancement of the engine speed at the pump operator's panel shall be made.

21.7.4.1*

If the pump is designed to be driven through a split-shaft PTO with the apparatus in a stationary position, the interlock shall be tested with the chassis transmission, parking brake, and pump shift in the driving compartment as shown for the two test configurations in Table 21.7.4.1 to verify that the engine speed control at the pump operator's panel is not capable of being advanced.

<u>Chassis</u> Transmission Gear <u>Selected</u>	<u>Parking</u> Brake Status	<u>Pump Shift Status</u> (<u>Driving</u> <u>Compartment)</u>	Engine Speed Control at Pump Operator's Panel	<u>Test</u> Point
Ν	On	Road	Yes	-
Ν	Off	Road	No	\checkmark
Ν	On	"Pump engaged"	Yes	-
Ν	Off	"Pump engaged"	No	_
Pump gear*	On	"Pump engaged" "OK to pump"	Yes	-
Pump gear*	Off	"Pump engaged"	No	-
Pump gear*	On	Road	No	\checkmark
Pump gear*	Off	Road	No	-
Any gear other than N and pump gear*	On or off	Road	No	-
Any gear other than N and pump gear*	On or off	"Pump engaged"	No	-

Table 21.7.4.1 Stationary Pump Driven Through Split-Shaft PTO

*Chassis transmission shift selector placed in position for pumping as indicated on label provided in the driving compartment.

21.7.4.2*

If the pump is designed to be driven through a transmission-mounted PTO, front-of-engine crankshaft PTO, or engine flywheel PTO with the apparatus in a stationary position, the interlock shall be tested with the chassis transmission, parking brake, and pump shift in the driving compartment as shown for the two test configurations in Table 21.7.4.2 to verify that the engine speed control at the pump operator's panel is not capable of being advanced.

Table 21.7.4.2 Stationary Pump Driven Throu	igh Transmission-Mounted PTO, Front-of-Engine
Crankshaft PTO, or Engine Flywheel PTO	-

<u>Chassis</u> Transmission Gear <u>Selected</u>	<u>Parking</u> <u>Brake</u> Status	<u>Pump Shift Status</u> (<u>Driving</u> <u>Compartment</u>)	Engine Speed Control at Pump Operator's Panel	<u>Test</u> Point
N	On	Disengaged	Yes	-
Ν	Off	Disengaged	No	\checkmark
Ν	On	"Pump engaged" "OK to pump"	Yes	-
Ν	Off	"Pump engaged"	No	-
Any gear other than N	On	"Pump engaged"	No	\checkmark
Any gear other than N	Off	"Pump engaged"	No	-
Any gear other than N	On or off	Disengaged	No	-

21.7.4.3*

If the pump is in a fire apparatus that has both stationary and "pump-and-roll" capability, the interlock shall be tested with the chassis transmission, parking brake, and pump shift in the driving compartment as shown for the two test configurations in Table 21.7.4.3 to verify that the engine speed control at the pump operator's panel is not capable of being advanced.

<u>Chassis</u> Transmission Gear <u>Selected</u>	<u>Parking</u> <u>Brake</u> Status	<u>Pump Shift Status</u> (<u>Driving</u> <u>Compartment</u>)	<u>Engine Speed</u> <u>Control at Pump</u> Operator's Panel	<u>Test</u> Required
Ν	On	Disengaged	Yes	-
Ν	Off	Disengaged	No	\checkmark
Ν	On	"Pump engaged" "OK to pump"	Yes	-
Ν	Off	"Pump engaged"	No	-
Any gear other than N	On	"Pump engaged" "OK to pump and roll"	No	\checkmark
Any gear other than N	Off	"Pump engaged" "OK to pump and roll"	No	-
Any gear other than N	On or off	Disengaged	No	-

21.7.4.4

Testing shall be performed with a qualified person positioned in the driving compartment and a qualified person verifying engine speed control status at the pump operator's panel.

21.7.4.5

Shifting of the pump transmission/PTO shall be done in accordance with the manufacturer's instructions.

21.7.4.6

For wildland and fire apparatus compliant with the 2016 editions, or later, of NFPA 1906 and NFPA 1901, respectively, where the pump is driven by the chassis engine and automatic transmission through a split shaft PTO, compliance shall be verified that an interlock system prevents the pump drive system from being shifted out of the "Pump Engaged" mode of operation when the chassis transmission is in pump gear.

Statement of Problem and Substantiation for Public Input

In the 2016 edition of NFPA 1901 and NFPA 1906, the corresponding section (16.13.8) was revised to test more combinations of conditions, indicators, and control. The committee should consider whether the tests here should be expanded to at least test that each sensor (transmission gear, parking brake, and pump shift) disables throttle control, or the full set of combinations as in NFPA 1900 section 19.13.8.

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Committee:	FDA-AAA			

For apparatus where th throttle controls are pro	Control Interlo ne chassis en ovided, a test	ock <u>Test</u> . gine drives the pump and of the interlock that contro	electric or electronic en ls the advancement of t	gine the eng
speed at the pump ope	rator's panel	shall be made.		
If the pump is designed position, the interlock sl shift in the driving comp verify that the engine sp advanced.	to be driven t hall be tested partment as sh peed control a	through a split-shaft PTO with the chassis transmis nown for the two test conf at the pump operator's par	with the apparatus in a sion, parking brake, and igurations in Table 21.7. nel is not capable of bein	stationa 1 pump 4.1 to ng
Table 21.7.4.1 Stationa Chassis Transmission Gear Selected	ry Pump Driv <u>Parking</u> <u>Brake</u> Status	en Through Split-Shaft P⊺ Pump Shift Status (Driving Compartment)	<u>Engine Speed</u> <u>Control at Pump</u> Operator's Panel	<u>Tes</u> Poir
 N	On	Road	Yes	-
Ν	Off	Road	No	\checkmark
Ν	On	"Pump engaged"	Yes	-
Ν	Off	"Pump engaged"	No	-
Pump gear*	On	"Pump engaged" "OK to pump"	Yes	-
Pump gear*	Off	"Pump engaged"	No	_
Pump gear*	On	Road	No	\checkmark
Pump gear*	Off	Road	No	-
Any gear other than N	On or off	Road	No	-
and pump year		"Pump engaged"	No	_

21.7.4.2*

If the pump is designed to be driven through a transmission-mounted PTO, front-of-engine crankshaft PTO, or engine flywheel PTO with the apparatus in a stationary position, the interlock shall be tested with the chassis transmission, parking brake, and pump shift in the driving compartment as shown for the two test configurations in Table 21.7.4.2 to verify that the engine speed control at the pump operator's panel is not capable of being advanced.

Table 21.7.4.2 Stationary Pump Driven Throu	igh Transmission-Mounted PTO, Front-of-Engine
Crankshaft PTO, or Engine Flywheel PTO	-

<u>Chassis</u> <u>Transmission Gear</u> <u>Selected</u>	<u>Parking</u> <u>Brake</u> Status	<u>Pump Shift Status</u> (<u>Driving</u> <u>Compartment</u>)	Engine Speed Control at Pump Operator's Panel	<u>Test</u> Point
Ν	On	Disengaged	Yes	-
Ν	Off	Disengaged	No	\checkmark
Ν	On	"Pump engaged" "OK to pump"	Yes	-
Ν	Off	"Pump engaged"	No	-
Any gear other than N	On	"Pump engaged"	No	\checkmark
Any gear other than N	Off	"Pump engaged"	No	-
Any gear other than N	On or off	Disengaged	No	-

21.7.4.3*

If the pump is in a fire apparatus that has both stationary and "pump-and-roll" capability, the interlock shall be tested with the chassis transmission, parking brake, and pump shift in the driving compartment as shown for the two test configurations in Table 21.7.4.3 to verify that the engine speed control at the pump operator's panel is not capable of being advanced.

<u>Chassis</u> Transmission Gear <u>Selected</u>	<u>Parking</u> <u>Brake</u> Status	<u>Pump Shift Status</u> (<u>Driving</u> <u>Compartment</u>)	Engine Speed Control at Pump Operator's Panel	<u>Test</u> Required
Ν	On	Disengaged	Yes	-
Ν	Off	Disengaged	No	\checkmark
Ν	On	"Pump engaged" "OK to pump"	Yes	-
Ν	Off	"Pump engaged"	No	-
Any gear other than N	On	"Pump engaged" "OK to pump and roll"	No	\checkmark
Any gear other than N	Off	"Pump engaged" "OK to pump and roll"	No	-
Any gear other than N	On or off	Disengaged	No	-

21.7.4.4

Testing shall be performed with a qualified person positioned in the driving compartment and a qualified person verifying engine speed control status at the pump operator's panel.

21.7.4.5

Shifting of the pump transmission/PTO shall be done in accordance with the manufacturer's instructions.

21.7.4.6

For wildland and fire apparatus compliant with the 2016 editions, or later, of NFPA 1906 and NFPA 1901, respectively, where the pump is driven by the chassis engine and automatic transmission through a split shaft PTO, compliance shall be verified that an interlock system prevents the pump drive system from being shifted out of the "Pump Engaged" mode of operation when the chassis transmission is in pump gear.

Additional Proposed Changes

File Name	Description	<u>Approved</u>
1911_PI_No19_SWilde.pdf	1911_PI No. 19_S. Wilde	•

Statement of Problem and Substantiation for Public Input

add the Test to the chapter heading

Submitter Information Verification

Submitter Full Name: Stephen WildeOrganization:Certified Fleet Services, Inc.Street Address:City:City:State:State:Zip:Submittal Date:Wed Jul 29 10:40:57 EDT 2020Committee:FDA-AAA

21.7.4.6	
For wildland and NFPA 1901, res automatic transi system prevents operation when	d fire apparatus compliant with the 2016 editions, or later, of NFPA 1906- and-, spectively or NFPA 1900, where the pump is driven by the chassis engine and mission through a split shaft PTO, compliance shall be verified that an interlock s the pump drive system from being shifted out of the "Pump Engaged" mode or the chassis transmission is in pump gear.
ement of Prob	lem and Substantiation for Public Input
	-
Tasts apply to truck	ce built to 2016 NEBA 1001 or 1006 or built to 2023 or later NEBA 1000
Tests apply to truck	ks built to 2016 NFPA 1901 or 1906 or built to 2023 or later NFPA 1900.
Tests apply to truck mitter Informa	ks built to 2016 NFPA 1901 or 1906 or built to 2023 or later NFPA 1900.
Tests apply to truck mitter Informa Submitter Full Nar	ks built to 2016 NFPA 1901 or 1906 or built to 2023 or later NFPA 1900. tion Verification me: Thomas Stalnaker
Tests apply to truck mitter Informa Submitter Full Nar Drganization:	 ks built to 2016 NFPA 1901 or 1906 or built to 2023 or later NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company
Tests apply to truck mitter Informa Submitter Full Nar Organization: Affiliation:	 ks built to 2016 NFPA 1901 or 1906 or built to 2023 or later NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Tests apply to truck mitter Informa Submitter Full Nar Organization: Affiliation: Street Address:	 ks built to 2016 NFPA 1901 or 1906 or built to 2023 or later NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Tests apply to truck mitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City:	ks built to 2016 NFPA 1901 or 1906 or built to 2023 or later NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Tests apply to truck mitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State:	ks built to 2016 NFPA 1901 or 1906 or built to 2023 or later NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Tests apply to truck mitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	ks built to 2016 NFPA 1901 or 1906 or built to 2023 or later NFPA 1900. tion Verification me : Thomas Stalnaker Goshen Fire Company Admin Task Group
Tests apply to truck mitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	Ks built to 2016 NFPA 1901 or 1906 or built to 2023 or later NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 13:18:12 EDT 2020





21.7.7.2.3*

If the fire pump or industrial supply pump is a two-stage, parallel/series-type pump, the following criteria shall apply:

- (1) The test at 100 percent of capacity shall be run with the pump in parallel mode.
- (2) The test at 70 percent of capacity shall be permitted to be run with the pump in either series or parallel mode.
- (3) The test at 50 percent of capacity shall be run with the pump in series mode.

21.7.7.2.4

A complete set of readings shall be taken and recorded a minimum of five times during the 20minute test for 100 percent rated capacity, a minimum of twice during the overload test if performed, and a minimum of three times during each of the 10-minute tests for 70 percent capacity and 50 percent capacity.

21.7.7.3

The prescribed duration of the pumping tests shall not be started until the pump pressure and the discharge quantity are stabilized at the prescribed values.

21.7.7.4

The engine shall not be throttled down, except when the hose, a nozzle, or the position of a transfer valve is being changed.

21.7.7.5

If the flow rate or pressure readings vary by more than 5 percent during a particular test, the reason for the fluctuation shall be determined, the cause corrected, and the test continued or repeated.

Additional Proposed Changes

File NameDescriptionApproved1911_PI_No._22_S._Wilde.pdf1911_PI No. 22_S. Wilde

Statement of Problem and Substantiation for Public Input

we should add the word "System" since there is more then one component needed to pump.

Submitter Information Verification

Stephen Wilde
Certified Fleet Services, Inc.
Wed Jul 29 10:46:41 EDT 2020
FDA-AAA



21.7.8.2.3

The pressure control device shall be tested at 50 percent of rated capacity at 250 psi (1700 kPa) net pump pressure as follows:

- (1) The pump shall be delivering 50 percent of rated capacity at 250 psi (1700 kPa) net pump pressure.
- (2) The pressure control device shall be set in accordance with the manufacturer's instructions to maintain the discharge at 250 psi (1700 kPa) net pump pressure.
- (3) All discharge valves shall be closed in no fewer than 3 seconds and no more than 10 seconds.
- (4) The rise in discharge pressure shall not exceed 30 psi (200 kPa).
- (5) The rise in discharge pressure shall be recorded.

21.7.8.3 Pumps 3000 gpm (12,000 L/min) or Greater.

If the fire pump or industrial supply pump has a rated capacity of 3000 gpm (12,000 L/min) or greater, the pressure control device shall be tested as specified in 21.7.8.3.1 through 21.7.8.3.3.

21.7.8.3.1

The pressure control device shall be tested at rated pump capacity at 100 psi (700 kPa) net pump pressure as follows:

- (1) The pump shall be delivering rated capacity at 100 psi (700 kPa) net pump pressure.
- (2) The pressure control device shall be set in accordance with the manufacturer's instructions to maintain the discharge at 100 psi (700 kPa) net pump pressure.
- (3)* All discharge valves shall be closed in no fewer than 3 seconds and no more than 10 seconds.
- (4) The rise in discharge pressure shall not exceed 30 psi (200 kPa).
- (5) The rise in discharge pressure shall be recorded.

21.7.8.3.2

The pressure control device shall be tested at 90 psi (620 kPa) net pump pressure as follows:

- (1) The original conditions of pumping rated capacity at 100 psi (700 kPa) net pump pressure shall be reestablished.
- (2) The discharge pressure shall be reduced to 90 psi (620 kPa) net pump pressure by throttling the engine fuel supply with no change to the discharge valve setting, hose, or nozzles.
- (3) The pressure control device shall be set in accordance with the manufacturer's instructions to maintain the discharge at 90 psi (620 kPa) net pump pressure.
- (4) All discharge valves shall be closed in no fewer than 3 seconds and no more than 10 seconds.
- (5) The rise in discharge pressure shall not exceed 30 psi (200 kPa).
- (6) The rise in discharge pressure shall be recorded.

21.7.8.3.3 The pressure control device shall be tested at 50 percent of rated pump capacity at 200 psi (1400 kPa) net pump pressure as follows: (1) The pump shall be delivering 50 percent of rated capacity at 200 psi (1400 kPa) net pump pressure. (2) The pressure control device shall be set in accordance with the manufacturer's instructions to maintain the discharge at 200 psi (1400 kPa) net pump pressure. (3) All discharge valves shall be closed in no fewer than 3 seconds and no more than 10 seconds. (4) The rise in discharge pressure shall not exceed 30 psi (200 kPa). (5) The rise in discharge pressure shall be recorded. 21.7.8.4* Ultra-High-Pressure Fire Pumps. The pressure control system of an ultra-high-pressure fire pump shall be tested as follows: (1) The ultra-high-pressure fire pump shall be operated to deliver rated capacity at rated discharge gauge pressure. (2) If a pressure control system is supplied, it shall be set in accordance with the manufacturer's instructions. (3) All discharge valves shall be closed. (4) Any rise in discharge pressure shall not exceed 40 percent of the rated pump pressure. (5) The pump shall be operated with the discharge lines closed for 3 minutes without the temperature of the pump exceeding 140°F (60°C). (6) The final discharge pressure, any rise in discharge pressure, and the final pump temperature shall be recorded. Additional Proposed Changes File Name **Description Approved** 1911_PI_No._21_S._Wilde.pdf 1911_PI No. 21_S. Wilde Statement of Problem and Substantiation for Public Input The pressure control might be a system using engine speed, relief valves or intake and discharge relief valves. There are multiple tests in this section, we need to change the header to reflect that by changing test to tests. Submitter Information Verification Submitter Full Name: Stephen Wilde Certified Fleet Services, Inc. **Organization:** Street Address: City: State: Zip: Submittal Date: Wed Jul 29 10:45:13 EDT 2020 Committee: FDA-AAA

21.7.11.1*				
Each flowme	eter shall be checke	ed for accuracy at the tes	st flows shown in Tabl	e 21.7.11.1.
Table 21.7.	11.1 Flow-Measurin	g Points for Flowmeters		
Pip	e Size	-	Test F	low
in.			gpm	 L/mir
1	25	40	150	
1 1 /2	38 <u>40</u>	- <u>90</u>	128 <u>340</u>	454
2 51	50 -	160 180	600	682
2 ¹ /2	63 <u>60</u>	- 250	300 <u>950</u>	1135
3 75	<u>80</u> -	<u>375</u> 700	<u>1400</u>	2650
4	100 -		<u>625</u>	<u>2400</u>
<u>5</u>	<u>125</u>	1000	3785	<u>4000</u>
6	150	1440	5500	
	oblem and Sub	stantiation for Pub	lic Input	
ment of Pr	pipe sizes to actual	nominal pipe sizes.		
ment of Pr prrect metric p atch test poin	pipe sizes to actual ts in 1910 to calibra	nominal pipe sizes. ation/test points in 1900.		
orrect metric p atch test poin nitter Infor	bipe sizes to actual ts in 1910 to calibra mation Verifica	nominal pipe sizes. ation/test points in 1900. tion		
ement of Pr orrect metric p atch test poin nitter Inforn ubmitter Full	bipe sizes to actual ts in 1910 to calibra mation Verifica Name: Thomas Sta	nominal pipe sizes. ation/test points in 1900. tion alnaker		
ment of Pr prrect metric p atch test poin hitter Inforn bmitter Full ganization:	bipe sizes to actual ts in 1910 to calibra mation Verifica Name: Thomas Sta Goshen Fir	nominal pipe sizes. ation/test points in 1900. tion alnaker e Company		
ment of Pr prrect metric p atch test poin nitter Inform Ibmitter Full rganization: reet Address	bipe sizes to actual ts in 1910 to calibra mation Verifica Name: Thomas Sta Goshen Fir	nominal pipe sizes. ation/test points in 1900. tion alnaker e Company		
ment of Pr prrect metric p atch test poin hitter Inforn bmitter Full ganization: reet Address sy:	bipe sizes to actual ts in 1910 to calibra mation Verifica Name: Thomas Sta Goshen Fir	nominal pipe sizes. ation/test points in 1900. tion alnaker e Company		
ment of Pr prrect metric p atch test poin nitter Inform Ibmitter Full rganization: reet Address ty: ate:	bipe sizes to actual ts in 1910 to calibra mation Verifica Name: Thomas Sta Goshen Fir	nominal pipe sizes. ation/test points in 1900. tion alnaker e Company		
ment of Pr prrect metric p atch test poin nitter Inform Ibmitter Full ganization: reet Address ty: ate: p:	bipe sizes to actual ts in 1910 to calibra mation Verifica Name: Thomas Sta Goshen Fir	nominal pipe sizes. ation/test points in 1900. tion alnaker e Company		
ement of Pr orrect metric p latch test poin nitter Inform ubmitter Full rganization: treet Address ity: :ate: p: ubmittal Date	bipe sizes to actual ts in 1910 to calibra mation Verifica Name : Thomas Sta Goshen Fir : Wed Oct 28	nominal pipe sizes. ation/test points in 1900. tion alnaker e Company		

Pipe Size		Flow	
in.	mm	gpm	L/min
1	25	40	150
11/2	40	90	340
2	50	160	600
21/2	60	250	950
3	80	375	1400
4	100	625	2400
5	125	1000	4000
6	150	1440	5500

Table 21.7.11.1 Flow-measuring points for Flowmeters



Public Input I	No. 15-NFPA 1910-2020 [Section No. 21.8.4]
NFPA	
21.8.4	
If the engine spe percent of the en <u>pumping system</u>	ed required to meet any of the test points during the pumping test exceeds 110 ngine speed listed on the test label attached to the apparatus, the pump <u>shall be repaired- or replaced</u> .
Additional Propose	ed Changes
File Nan 1911 PL No. 12.5	<u>ne Description Approved</u>
Statement of Probl	em and Substantiation for Public Input
By not using the ph pump might need e	rase "pumping system" someone could mistake the pump as the only reason the xcessive rpm to make the flow and pressure settings.
Submitter Informat	tion Verification
Submitter Full Nar	ne: Stephen Wilde
Organization:	Certified Fleet Services, Inc.
Street Address:	
City:	
State:	
Zip:	
Submittel Deter	Wed Jul 20 10:00:54 EDT 2020
Submittal Date.	Wed Jul 29 10.09.34 ED1 2020

21.8.7*	
If the AHJ wishes to rerate the pump, the pump shall be tested to the complete pumping test specified in NFPA <u>1901</u> , including having the test witnessed and certified by an accredit third-party testing organization.	
tement of Probl	em and Substantiation for Public Input
Document number	change due to document consolidation.
Document number	change due to document consolidation. tion Verification
Document number	change due to document consolidation. tion Verification
Document number omitter Informat Submitter Full Nan	change due to document consolidation. tion Verification ne: Thomas Stalnaker
Document number omitter Informat Submitter Full Nan Organization:	change due to document consolidation. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Document number omitter Informat Submitter Full Nan Organization: Street Address:	change due to document consolidation. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Document number omitter Informat Submitter Full Nan Organization: Street Address: City:	change due to document consolidation. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Document number Domitter Informat Submitter Full Nan Organization: Street Address: City: State:	change due to document consolidation. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Document number omitter Informat Submitter Full Nan Organization: Street Address: City: State: Zip:	change due to document consolidation. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Document number omitter Informat Submitter Full Nan Organization: Street Address: City: State: Zip: Submittal Date:	change due to document consolidation. tion Verification ne: Thomas Stalnaker Goshen Fire Company Wed Oct 28 16:29:57 EDT 2020

Public Input N	lo. 200-NFPA 1910-2020 [Section No. 22.6]		
22.6 Bolt and Pi	in Inspection.		
Bolts and pins the tube (CRT) indica elongated materi	Bolts and pins that are subjected to ultrasonic testing shall contain no ultrasonic cathode ray tube (CRT) indications indications on a visual display that can be interpreted as cracks or elongated material.		
Statement of Proble Ultrasonic testing eq away from cathode r without specifying th Submitter Information	em and Substantiation for Public Input quipment, like all computer equipment and televisions, have long since moved ray tube (CRT) displays. I believe the requirement should call for a visual display the technology used to produce that display.		
Submitter Full Nam	ne: Thomas Stalnaker		
Organization:	Goshen Fire Company		
Street Address:			
City:			
State:			
Zip:			
Submittal Date:	Thu Oct 29 13:15:38 EDT 2020		
Committee:	FDA-AAA		

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22.6 Bolt and Pin Inspection. Bolts and pins that are subjected to ultrasonic testing shall contain no ultrasonic cathode ray tube (CRT) electromagneticacoustic transducer indications that can be interpreted as cracks or elongated material. Additional Proposed Changes <u>File Name</u> <u>Description</u> <u>Approved</u> 1911_PI_No9_JFickers.pdf 1911_PI No. 9_J. Fickers Statement of Problem and Substantiation for Public Input I can find no reference to cathode ray tube in any documentation for ultrasonic testing, I believe this term is an old fashioned tv monitor and not used in any form for testing, most all reference material refers to a transducer based acoustic emitter. Submitter Information Verification Submitter Full Name: John Fickers Organization: Rev Rtc Street Address: City:	NFP	Public Input No	o. 7-NFPA 1910-2020 [Section No. 22.6]		
Bolts and pins that are subjected to ultrasonic testing shall contain no ultrasonic cathode-ray tube (CRT) electromagneticacoustic transducer indications that can be interpreted as cracks or elongated material. Additional Proposed Changes <u>File Name</u> <u>Description</u> <u>Approved</u> 1911_PI_No9_JFickers.pdf 1911_PI No. 9_J. Fickers Statement of Problem and Substantiation for Public Input I can find no reference to cathode ray tube in any documentation for ultrasonic testing, I believe this term is an old fashioned tv monitor and not used in any form for testing. most all reference material refers to a transducer based acoustic emitter. Submitter Information Verification Street Address: City:		22.6 Bolt and Pin Inspection.			
Eile Name Description Approved 1911_PI_No9_JFickers.pdf 1911_PI No. 9_J. Fickers Approved Statement of Problem and Substantiation for Public Input I can find no reference to cathode ray tube in any documentation for ultrasonic testing, I believe this term is an old fashioned tv monitor and not used in any form for testing. most all reference material refers to a transducer based acoustic emitter. Submitter Information Verification Rev Rtc Street Address: Rev Rtc City: End		Bolts and pins that are subjected to ultrasonic testing shall contain no ultrasonic cathode ray tube (CRT) <u>electromagneticacoustic transducer</u> indications that can be interpreted as cracks or elongated material.			
File Name Description Approved 1911_PI_No9_JFickers.pdf 1911_PI No. 9_J. Fickers Statement of Problem and Substantiation for Public Input I can find no reference to cathode ray tube in any documentation for ultrasonic testing, I believe this term is an old fashioned tv monitor and not used in any form for testing. most all reference material refers to a transducer based acoustic emitter. Submitter Information Verification Submitter Full Name: John Fickers Organization: Rev Rtc Street Address: City:	Add	itional Proposed	d Changes		
Statement of Problem and Substantiation for Public Input I can find no reference to cathode ray tube in any documentation for ultrasonic testing, I believe this term is an old fashioned tv monitor and not used in any form for testing. most all reference material refers to a transducer based acoustic emitter. Submitter Information Verification Submitter Full Name: John Fickers Organization: Rev Rtc Street Address: City:		<mark>File Name</mark> 1911_PI_No9_JF	Description Approved Fickers.pdf 1911_PI No. 9_J. Fickers		
I can find no reference to cathode ray tube in any documentation for ultrasonic testing, I believe this term is an old fashioned tv monitor and not used in any form for testing. most all reference material refers to a transducer based acoustic emitter. Submitter Information Verification Submitter Full Name: John Fickers Organization: Rev Rtc Street Address: City:	Stat	ement of Proble	m and Substantiation for Public Input		
Submitter Information Verification Submitter Full Name: John Fickers Organization: Rev Rtc Street Address: City:	l te	can find no referenc erm is an old fashion efers to a transducer	e to cathode ray tube in any documentation for ultrasonic testing, I believe this ted tv monitor and not used in any form for testing. most all reference material based acoustic emitter.		
Submitter Full Name: John Fickers Organization: Rev Rtc Street Address: City:	Sub	mitter Informatio	on Verification		
Organization: Rev Rtc Street Address: City:	S	ubmitter Full Name	e: John Fickers		
Street Address: City:	C	Organization:	Rev Rtc		
City:	S	street Address:			
	C	ity:			
State:	S	state:			
Zip:	Z	ip:			
Submittal Date: Tue Jul 28 09:48:38 EDT 2020	S	ubmittal Date:	Tue Jul 28 09:48:38 EDT 2020		
Committee: FDA-AAA	C	committee:	FDA-AAA		



22.7.6	
All acoustic e standards:	mission inspections shall be conducted in accordance with the following
(1) ASTM E During C	569/E569M, Standard Practice for Acoustic Emission Monitoring of Structures controlled Stimulation
(2) ASTM E Sensors	650/E650M, Standard Guide for Mounting Piezoelectric Acoustic Emission
22.7.7	
All eddy curre Practice for D Method.	ent inspections shall be conducted in accordance with ASTM E1004, Standard Determining Electrical Conductivity Using the Electromagnetic (Eddy-Current)
ASTM has chang	blem and Substantiation for Public Input ged the titles of several referenced documents.
bmitter Inform	nation Verification
Submitter Full N	Jame: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Sep 01 13:23:58 EDT 2020
Committee:	FDA-AAA





Public Input	No. 36-NFPA 1910-2020 [Section No. 22.8.8.2]
22.8.8.2*	
The procedure s within the time p manufacture.	specified in 22.8.8.1 shall be completed smoothly and without undue vibration permitted by the edition of NFPA 1901 <u>or NFPA 1900</u> in effect at the time of
Statement of Prob	lem and Substantiation for Public Input
NFPA 1901 now pa	art of NFPA 1900.
Submitter Informa	tion Verification
Submitter Full Na	me: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
Street Address: City:	
Street Address: City: State:	
Street Address: City: State: Zip:	
Street Address: City: State: Zip: Submittal Date:	Tue Sep 01 13:34:44 EDT 2020


	Public Input No. 202-NFPA 1910-2020 [Section No. 22.9.4]		
	22.9.4 Turntable	e and Torque Box Inspection and Test.	
	The turntable and with 22.8.4.1, -22	d torque box components, where applicable, shall be inspected in accordance 2.8.4.2 - 22.8.4.4 - through 22.8.4.13 - and - 22.8.4.18 - through - 22.8.4. 29.	
State	Statement of Problem and Substantiation for Public Input		
lt 22 tr 22 a	It seems that all sections on 22.8.4 should be included in the testing of the turntable components. 22.8.4.3 only applies to tractor-drawn aerials, but a platform could be (Sutphen did it at one time) tractor-drawn and each sentence starts with "If" so for straight trucks this section is not a problem. 22.8.4.14 through 22.8.4.17 apply to elevating cylinders/ears/pins/holding valves, all of which would be applicable to elevating platforms as well as straight aerial ladders.		
Subr	ubmitter Information Verification		
S	ubmitter Full Nam	ie: Thomas Stalnaker	
0	rganization:	Goshen Fire Company	
St	treet Address:		
С	ity:		
S	tate:		
Zi	ip:		
6	ubmittal Date:	Thu Oct 20 15:04:21 EDT 2020	
) 3	ubilittai Date.	Thu Oct 29 13.04.21 ED1 2020	

22.9.6.7 Elevating The elevating platf checked to verify t	g Platform Rated Capacity Identification. form rated capacity identification plate - <u>label or electronic display</u> shall be hat it is present, proper, and legible. m and Substantiation for Public Input
The elevating platf checked to verify t tatement of Problem	form rated capacity identification plate <u>label or electronic display</u> shall be hat it is present, proper, and legible. m and Substantiation for Public Input
tatement of Problem	n and Substantiation for Public Input
printed label. ubmitter Informatic Submitter Full Name	on Verification : Thomas Stalnaker
Organization:	Goshen Fire Company
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Fri Oct 30 13:32:38 EDT 2020

Public Input N	lo. 210-NFPA 1910-2020 [Section No. 22.9.6.7]	
22.9.6.7 Elevati	ng Platform Rated Capacity Ide	ntification.	
The elevating pla checked to verify	tform rated capacity identification that it is present, proper, and le	on plate - <u>label or digital display</u> shall be gible.	
Statement of Problem and Substantiation for Public Input			
Per the definitions and consistent usage in NFPA 1901/1906/1917/1900, the NFPA Glossary of Terms, and other NFPA documents: A Label gives identification or information An Instruction Plate gives instructions A Sign gives a warning. NFPA 1910 should use the same terminology as NFPA 1900 and other NFPA documents use about these items when the apparatus is built. NFPA 1901/1900 now allows this information to be on a digital display instead of a label. Related Public Inputs for This Document			
	Related Input	<u>Relationship</u>	
Public Input No. 21	<u>3-NFPA 1910-2020 [Section No.</u>	<u>. 19.2.1]</u>	
Submitter Informat	Submitter Information Verification		
Submitter Full Nam	e: Thomas Stalnaker		
Organization:	Goshen Fire Company		
Street Address:			
State:			
Zip:			
Submittal Date:	Fri Oct 30 15:23:30 EDT 202	0	
Committee:	FDA-AAA		

Public Input	No. 37-NFPA 1910-2020 [Section No. 22.9.13.3]
22.9.13.3*	
The procedure s within the time p manufacture.	specified in 22.9.13.2 shall be completed smoothly and without undue vibration permitted by the edition of NFPA 1901 <u>or NFPA 1900</u> in effect at the time of
Statement of Prob	lem and Substantiation for Public Input
NFPA 1901 now pa	art of NFPA 1900.
Submitter Informa	tion Verification
Submitter Full Na	ne: Thomas Stalnaker
Submitter Full Naı Organization:	me: Thomas Stalnaker Goshen Fire Company
Submitter Full Na Organization: Affiliation:	me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Submitter Full Nar Organization: Affiliation: Street Address:	me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Submitter Full Nar Organization: Affiliation: Street Address: City:	me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Submitter Full Nar Organization: Affiliation: Street Address: City: State:	me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	me: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 13:59:29 EDT 2020

Public Input	Public Input No. 204-NFPA 1910-2020 [Section No. 22.10.4]		
NFPA			
22.10.4 Turnta	ble and Torque Box Inspection and Test.		
The turntable ar tower apparatus	nd torque box components, where applicable, shall be inspected on all water in accordance with 22.8.4.1 , 22.8.4.2, and 22.8.4.4 - through 22.8.4.29.		
Statement of Prob	atement of Problem and Substantiation for Public Input		
There is no reason water tower equipm reason that water to include this section	to exclude 22.8.4.3. This section applies "if tractor-drawn" While most of all new nent is not tractor drawn, most old water towers were tractor drawn and there is no ower apparatus, now or old, could not be tractor drawn so the inspection should .		
Submitter Informa	tion Verification		
Submitter Full Nar	ne: Thomas Stalnaker		
Organization:	Goshen Fire Company		
Street Address:			
City:			
State:			
Zip:			
Submittal Date:	Fri Oct 30 14:08:01 EDT 2020		

Public Input	Public Input No. 38-NFPA 1910-2020 [Section No. 22.10.10.2]		
NFPA			
22.10.10.2*			
The procedure within the time procedure manufacture.	specified in 22.10.10.1 shall be completed smoothly and without undue vibration permitted by the edition of NFPA 1901 <u>or NFPA 1900</u> in effect at the time of		
Statement of Prob	Statement of Problem and Substantiation for Public Input		
NEPA 1901 now pa	NEDA 1001 now part of NEDA 1000		
	NEFA 1901 NOW PAR OF NEFA 1900.		
Submitter Informa	ubmitter Information Verification		
Submitter Full Na	me: Thomas Stalnaker		
Organization:	Goshen Fire Company		
Affiliation:	Admin Task Group		
Street Address:			
City:			
State:			
Zip:			
Submittal Date:	Tue Sep 01 14:25:35 EDT 2020		
Committee:	FDA-AAA		

Public Input I	Public Input No. 217-NFPA 1910-2020 [Section No. 25.3.2.2]		
25.3.2.2			
The test shall be permitted to be performed using a load bank.			
Statement of Probl	tatement of Problem and Substantiation for Public Input		
This statement, as perform it in-station apparatus of availal most cases will req require that it be do	This statement, as written, conflicts with 25.3.2.1. The idea of this annual test was to be able to perform it in-station without needing a load bank, and in most cases using loads carried on the apparatus of available around the station. The 5 year Full Load Test of Power Source in section 25.7 in most cases will require a load bank to reach the necessary load, although even that test does not require that it be done with a load bank if sufficient loads and connection points are available.		
Submitter Informat	ubmitter Information Verification		
Submitter Full Nar	ne: Thomas Stalnaker		
Organization:	Goshen Fire Company		
Street Address:			
City:			
Zin [.]			
Submittal Date:	Fri Oct 30 16:45:11 EDT 2020		
Committee:	FDA-AAA		

General	Requirements (NFPA 1912)
27 Perfor	mance Testing of ARFF Vehicle Water Pumps
<u>27.1 A sto</u>	op watch shall be required for this test.
<u>27.2</u> <u>The</u> for this te	<u>vehicle's water system shall be fully operational with all pre-connected hand lines deploy</u> <u>est.</u>
<u>27.3 The</u>	<u>vehicle water supply for this test shall be supplied by the on-board storages.</u>
27.4 The follows:	combined discharge of all nozzles shall be tested as
<u>1. Fill the</u>	water tank completely with water.
<u>2. If the v</u> testing an	<u>chicle is equipped with a foam pump if shall be tested in accordance with the water pump</u> and in compliance with NFPA 412.
<u>3. Set the</u>	<u>manual relief valve, if equipped, to the recommended OEM pressure.</u>
<u>4. Verify</u>	<u>the system will maintain a set pressure.</u>
<u>5. Check</u>	<u>the piping system for leaks.</u>
<u>6. Set the</u> and engage	<u>agent system to operate in water mode, set the system pressure for optimum performanc</u> <u>ge the pump.</u>
<u>7. Initiate</u> nozzles u	<u>e discharge through all turrets, ground sweeps, pre-connected hand lines, and under truc</u> ntil all are discharging simultaneously in a straight stream.
<u>8. As eacl</u>	a nozzle is turned on, observe the range along with the system pressure.
<u>9. Test th</u>	<u>e extendable turret in both fully bedded and fully vertically extended position.</u>
<u>10. Conti</u> dischargi	nue discharging until the system pressure has stabilized with all nozzles ng
27.5 To ca minimum minutes	alculate the discharge rate for an ARFF vehicle the discharge rate (DR) shall equal the 1 rated tank capacity in unit volume divided by the discharge time in
	DR= Minimum Rated Capacity (unit Volume)
	<u>Discharge Time (Minutes)</u>
<u>27.6 All d</u> Paramete	lischarge rates and distances shall conform to NFPA 414 Table 4.1.1, Fully Loaded Vehicl ers

This is the proposed new Chapter 27 based on the current numbering for 1911 (2017)

Submitter Information Verification

27.1.2.1	
Apparatus that r current edition o	receives a Level I refurbishing is intended to meet the <u>applicable chapters of the</u> f the appropriate NFPA automotive fire apparatus standard <u>NFPA 1900</u> .
tement of Probl	em and Substantiation for Public Input
Update reference d	ue to NFPA document consolidation.
omitter Informat	tion Verification
omitter Informat	tion Verification ne: Thomas Stalnaker
omitter Informat Submitter Full Nar Organization:	tion Verification ne: Thomas Stalnaker Goshen Fire Company
omitter Informat Submitter Full Nar Organization: Street Address:	tion Verification ne: Thomas Stalnaker Goshen Fire Company
Submitter Informat Submitter Full Nar Organization: Street Address: City:	tion Verification ne: Thomas Stalnaker Goshen Fire Company
Submitter Informat Submitter Full Nar Organization: Street Address: City: State:	tion Verification ne: Thomas Stalnaker Goshen Fire Company
Submitter Informat Submitter Full Nar Organization: Street Address: City: State: Zip:	tion Verification ne: Thomas Stalnaker Goshen Fire Company
Submitter Informat Submitter Full Nar Organization: Street Address: City: State: Zip: Submittal Date:	tion Verification ne: Thomas Stalnaker Goshen Fire Company Fri Oct 30 17:10:51 EDT 2020

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27.1.3.1	
This standard is 2006 <u>2023</u> ; how the purchaser a	applicable to fire apparatus contracted for refurbishing on or after July 1, vever, nothing shall prevent the use of the standard prior to July 1, 2006 <u>2023</u> , nd contractor agree. The standard is not intended to be applied retroactively.
tement of Prob	em and Substantiation for Public Input
Update the effective	 John Marson Marson Marson Marson Marson (J. 1997)
openato ano onoonv	e date. It was incorrect in the previous edition.
	e date. It was incorrect in the previous edition.
omitter Informat	tion Verification
omitter Informat	e date. It was incorrect in the previous edition. tion Verification ne: Thomas Stalnaker
Submitter Informat	tion Verification ne: Thomas Stalnaker Goshen Fire Company
Submitter Information Submitter Full Nar Organization: Street Address:	tion Verification ne: Thomas Stalnaker Goshen Fire Company
omitter Informat Submitter Full Nar Organization: Street Address: City:	tion Verification ne: Thomas Stalnaker Goshen Fire Company
Submitter Information Submitter Full Nar Organization: Street Address: City: State:	tion Verification ne: Thomas Stalnaker Goshen Fire Company
omitter Informat Submitter Full Nar Organization: Street Address: City: State: Zip:	tion Verification ne: Thomas Stalnaker Goshen Fire Company
Submitter Information Submitter Full Nar Organization: Street Address: City: State: Zip: Submittal Date:	tion Verification ne: Thomas Stalnaker Goshen Fire Company Fri Oct 30 17:06:21 EDT 2020

Public Input N	o. 39-NFPA 1910-2020 [Section No. 27.2.1]		
NFPA			
27.2.1			
Fire apparatus re chapters of the cu NFPA 1906 if the	Fire apparatus receiving Level I refurbishing shall meet the requirements of <u>the</u> applicable chapters of the current edition of NFPA 1901 if the apparatus is not a wildland fire apparatus, or NFPA 1906 if the apparatus is a wildland fire apparatus, 1900, except as noted in Chapter 28.		
Statement of Proble	Statement of Problem and Substantiation for Public Input		
NFPA 1901 and NFF	NFPA 1901 and NFPA 1906 now in NFPA 1900.		
Submitter Informati	Submitter Information Verification		
Submitter Full Nam	Submitter Full Name: Thomas Stalnaker		
Organization:	Goshen Fire Company		
Affiliation:	Admin Task Group		
Street Address:			
City:			
State:			
Zip:			
Submittal Date:	Tue Sep 01 14:28:19 EDT 2020		
Committee:	FDA-AAA		



	27.5.11 Winch Sy	vstem.	
	If the fire apparatu requirements for w NFPA 1906, which	is is equipped with a new winch system, the system shall meet the vinches in the <u>applicable chapter of the</u> current edition of NFPA 1901 or never is applicable <u>1900</u> .	
Statement of Problem and Substantiation for Public Input			
١	NFPA 1901 and NFPA 1906 now in NFPA 1900.		
Submitter Information Verification			
S	Submitter Full Name	: Thomas Stalnaker	
C	Organization:	Goshen Fire Company	
A	Affiliation:	Admin Task Group	
S	Street Address:		
C	City:		
S	State:		
Z	lip:		
S	Submittal Date:	Tue Sep 01 14:30:30 EDT 2020	
0	Committee:	FDA-AAA	



27.6.10 Lubrica	tion System.
If the fire apparat requirements for 1901 or NFPA 1 9	us is equipped with a new lubrication system, the system shall meet the lubrication systems in the <u>applicable chapter of the</u> current edition of NFPA 306, whichever is applicable <u>1900</u> .
27.6.11 Fuel an	d Air System.
If the fire apparat requirements for 1901 or NFPA 1 9	us is equipped with a new fuel and air system, the system shall meet the fuel and air systems in the <u>applicable chapter of the</u> current edition of NFPA 306, whichever is applicable <u>1900</u> .
27.6.12 Exhaus	t System.
If the fire apparat requirements for 1901 or NFPA 1 9	us is equipped with a new exhaust system, the system shall meet the exhaust systems in the <u>applicable chapter of the</u> current edition of NFPA 206, whichever is applicable <u>1900</u> .
27.6.13 Driving	and Crew Compartment.
If the fire apparat meet the require current edition of	us is equipped with a new driving and crew compartment, the assembly shall ments for driving and crew compartments in the <u>applicable chapter of the</u> NFPA 1901 or NFPA 1906, whichever is applicable <u>1900</u> .
Statement of Proble	em and Substantiation for Public Input
NFPA 1901 and NF	PA 1906 are now in NFPA 1900.
Submitter Informat	ion Verification
Submitter Full Nam	ie: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Sep 01 14:35:02 EDT 2020
Committee:	FDA-AAA



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H	
28.1* General.	
Fire apparatus r 1901 or NFPA 1 <u>NFPA 1900</u> for	efurbished to Level I standards shall meet the current requirements of NEPA 906, whichever is applicable, the applicable chapter of the current edition of those components unless specified otherwise in this chapter.
NFPA 1901 and NF	PA 1906 now in NFPA 1900.
NFPA 1901 and NF mitter Informa	PA 1906 now in NFPA 1900. tion Verification
NFPA 1901 and NF mitter Informa Submitter Full Nar	PA 1906 now in NFPA 1900. tion Verification me: Thomas Stalnaker
NFPA 1901 and NF mitter Informa Submitter Full Nar Organization:	PA 1906 now in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company
NFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation:	 FPA 1906 now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation: Street Address:	PA 1906 now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City:	TPA 1906 now in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State:	PA 1906 now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	TPA 1906 now in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	The Sep 01 15:08:58 EDT 2020

A abito input	
28.3.5*	
A lateral accele audio signals au or in circumstar NFPA <u>1901</u> <u>190</u>	ration indicator that is adjustable for sensitivity and that provides both visual and dwarnings to the driver shall be provided as an alternative to tilt table testing, uses where the vehicle is unable to meet tilt table requirements as referenced in $\underline{0}$.
tement of Prob	lem and Substantiation for Public Input
NFPA 1901 now in	NFPA 1900.
NFPA 1901 now in omitter Informa	NFPA 1900. tion Verification
NFPA 1901 now in omitter Informa Submitter Full Na	NFPA 1900. tion Verification me: Thomas Stalnaker
NFPA 1901 now in omitter Informa Submitter Full Na Organization:	NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company
NFPA 1901 now in omitter Informa Submitter Full Na Organization: Affiliation:	NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 now in omitter Informa Submitter Full Na Organization: Affiliation: Street Address:	NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 now in omitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City:	NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 now in omitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State:	NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 now in omitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City: State: Zip:	NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 now in omitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 15:10:41 EDT 2020

Public Input N	o. 44-NFPA 1910-2020 [Section No. 28.4]
28.4 Frame. The fire apparatus requirements of A	s frame shall be replaced with a new chassis frame meeting the current IFPA 1901 or NFPA 1906, whichever is applicable the applicable chapter of
Statement of Proble	em and Substantiation for Public Input
Submitter Information	on Verification
Submitter Full Name	e: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Sep 01 15:11:50 EDT 2020
Committee:	FDA-AAA

Public Input	No. 45-NFPA 1910-2020 [Section No. 28.6.2 [Excluding any Sub-
NFPA Sections11	
0000001011	
If the existing end meets the curre	ngine and/or engine system is to be replaced, it shall be replaced with one that nt requirements of NFPA 1901 or NFPA 1906, whichever is applicable the ter of the current edition of NFPA 1900
	ter of the current edition of NFFA 1900.
Statement of Drah	lam and Cubatantiation for Dublic Input
Statement of Prob	iem and Substantiation for Public input
NFPA 1901 and NF	FPA 1906 now in NFPA 1900.
Submitter Informa	tion Verification
Submitter Full Na	me: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Sep 01 15:12:59 EDT 2020
Committee:	FDA-AAA

28.7.2	
If the cooling system requirements of the current edition	stem is to be replaced, it shall be replaced with one that meets the current NFPA 1901 or NFPA 1906, whichever is applicable, the applicable chapter of on of NFPA 1900, as well as the engine manufacturer's specifications.
atement of Prob	em and Substantiation for Public Input
NEPA 1901 and NE	PA 1906 are now in NEPA 1900.
bmitter Informat	tion Verification
bmitter Informat	tion Verification ne: Thomas Stalnaker
bmitter Informat Submitter Full Nar Organization:	tion Verification ne: Thomas Stalnaker Goshen Fire Company
bmitter Informat Submitter Full Nar Organization: Affiliation:	tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
bmitter Informat Submitter Full Nar Organization: Affiliation: Street Address:	tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
bmitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City:	tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
bmitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State:	tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
bmitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
bmitter Information Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 15:28:52 EDT 2020

28.8.2	
If the lubrication requirements of <u>the current editi</u>	system is to be replaced, it shall be replaced with one that meets the current NFPA 1901 or NFPA 1906, whichever is applicable, the applicable chapter o on of NFPA 1900, and the engine manufacturer's standards.
mitter Informa	tion Verification
mitter Informa	tion Verification
mitter Informa ubmitter Full Nai Organization:	tion Verification ne: Thomas Stalnaker Goshen Fire Company
mitter Informa ubmitter Full Nai Irganization: .ffiliation:	tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
mitter Informa ubmitter Full Nai organization: .ffiliation: treet Address:	tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
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mitter Informa ubmitter Full Nar organization: ffiliation: treet Address: ity: tate: ip: ubmittal Date:	tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 15:30:49 EDT 2020

Nublic Input	No. 48-NFPA 1910-2020 [Section No. 28.9]
IFPA	
28.9 Fuel and	Air Systems.
The fire appara systems that m applicable, <u>the</u> manufacturer's	tus fuel and air intake systems shall be replaced with new fuel and air intake eet the current requirements of NFPA 1901 or NFPA 1906, whichever is applicable chapter of the current edition of NFPA 1900, and the engine standards.
tatement of Prob	lem and Substantiation for Public Input
tatement of Prob	Iem and Substantiation for Public Input FPA 1906 are now in NFPA 1900.
NFPA 1901 and N	Iem and Substantiation for Public Input PA 1906 are now in NFPA 1900.
tatement of Prob NFPA 1901 and NI ubmitter Informa	Iem and Substantiation for Public Input FPA 1906 are now in NFPA 1900. tion Verification
tatement of Prob NFPA 1901 and Ni ubmitter Informa Submitter Full Na	Iem and Substantiation for Public Input FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker
tatement of Prob NFPA 1901 and NI ubmitter Informa Submitter Full Na Organization:	Iem and Substantiation for Public Input FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company
tatement of Prob NFPA 1901 and Ni ubmitter Informa Submitter Full Na Organization: Affiliation:	Iem and Substantiation for Public Input FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
tatement of Prob NFPA 1901 and NI ubmitter Informa Submitter Full Na Organization: Affiliation: Street Address:	Iem and Substantiation for Public Input FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
tatement of Prob NFPA 1901 and Ni ubmitter Informa Submitter Full Na Organization: Affiliation: Street Address: City:	Iem and Substantiation for Public Input FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
tatement of Prob NFPA 1901 and NI ubmitter Informa Submitter Full Na Organization: Affiliation: Street Address: City: State:	Iem and Substantiation for Public Input FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
tatement of Prob NFPA 1901 and NI ubmitter Informa Submitter Full Na Organization: Affiliation: Street Address: City: State: Zip:	Iem and Substantiation for Public Input FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
tatement of Prob NFPA 1901 and NI ubmitter Informa Submitter Full Na Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	Tue Sep 01 15:32:11 EDT 2020

	NO. 49-NFFA 1910-2020 [Section No. 26.10]
28.10 Exhaust	System.
The original fire meets the curre <u>applicable chap</u> standards.	apparatus exhaust system shall be replaced with a new exhaust system that nt requirements of NFPA 1901 or NFPA 1906, whichever is applicable, <u>the</u> <u>ter of the current edition of NFPA 1900,</u> and the engine manufacturer's
NFPA 1901 and NF	PA 1906 are now in NFPA 1900.
NFPA 1901 and NF	PA 1906 are now in NFPA 1900.
NFPA 1901 and NF omitter Informa Submitter Full Nai	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker
NFPA 1901 and NF omitter Informa Submitter Full Nar Organization:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company
NFPA 1901 and NF omitter Informa Submitter Full Nar Organization: Affiliation:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF omitter Informa Submitter Full Nar Organization: Affiliation: Street Address:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF omitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF omitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF omitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City: State: Zip:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF omitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 15:35:14 EDT 2020

Pu	blic Input No.	50-NFPA 1910-2020 [Section No. 28.11.1.1]
NFPA		
28	3.11.1.1	
Th cur <u>the</u>	e contractor shall or rrent edition of NEI e current edition of	certify that the braking system meets the performance requirements of the PA 1901 or NFPA 1906, whichever is applicable <u>the applicable chapter of NFPA 1900</u> .
Stateme	nt of Problem	and Substantiation for Public Input
NFPA	1901 and NFPA 1	906 are now in NFPA 1900.
Submitte	er Information	Verification
Subm	itter Full Name: T	homas Stalnaker
Organ	nization: G	ioshen Fire Company
Affilia	tion: A	dmin Task Group
Street	Address:	
City:		
State:		
Zip:		
Subm	ittal Date: T	ue Sep 01 15:38:30 EDT 2020
Comm	n ittee: F	DA-AAA

Public Input	: No. 51-NFPA 1910-2020 [Section No. 28.11.2.1]
NFPA	
28.11.2.1	
The suspension requirements of the current edition	on system shall be replaced with a new suspension system that meets the current of NFPA 1901 or NFPA 1906, whichever is applicable the applicable chapter of tion of NFPA 1900 .
Statement of Pro	blem and Substantiation for Public Input
NFPA 1901 and N	IFPA 1906 are now in NFPA 1900.
Submitter Inform	ation Verification
Submitter Full Na	ame: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Sep 01 15:40:18 EDT 2020
Committee:	FDA-AAA

Public Input	No. 52-NFPA 1910-2020 [Section No. 28.11.2.4]
A	
28.11.2.4 Angle	e of Approach and Departure.
28.11.2.4.1	
If the <u>non-wildla</u> approach and a rear of the vehic	nd_fire apparatus is being refurbished to NFPA <u>1901</u> , an angle of n angle of departure of at least 8 degrees shall be maintained at the front and le when it is loaded to its GVWR or GCWR, if applicable.
28.11.2.4.2	
If the <u>wildland</u> fi and an angle of vehicle when it i	re apparatus is being refurbished to NFPA 1906 <u>1900</u> , an angle of approach departure of at least 20 degrees shall be maintained at the front and rear of th s loaded to its GVWR or GCWR, if applicable.
tement of Prob	em and Substantiation for Public Input PA 1906 are now in NFPA 1900.
tement of Prob NFPA 1901 and NF omitter Information	em and Substantiation for Public Input PA 1906 are now in NFPA 1900.
tement of Prob NFPA 1901 and NF omitter Informat	em and Substantiation for Public Input PA 1906 are now in NFPA 1900. tion Verification ne: Thomas Stalnaker
tement of Prob NFPA 1901 and NF omitter Informat Submitter Full Nar Organization:	em and Substantiation for Public Input PA 1906 are now in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company
tement of Prob NFPA 1901 and NF omitter Informat Submitter Full Nar Organization: Affiliation:	Tem and Substantiation for Public Input PA 1906 are now in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
tement of Prob NFPA 1901 and NF omitter Informat Submitter Full Nar Organization: Affiliation: Street Address:	Tem and Substantiation for Public Input PA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
tement of Prob NFPA 1901 and NF omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City:	Tem and Substantiation for Public Input PA 1906 are now in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
tement of Prob NFPA 1901 and NF omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State:	Tem and Substantiation for Public Input TPA 1906 are now in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
tement of Prob NFPA 1901 and NF omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	Tem and Substantiation for Public Input PA 1906 are now in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
tement of Prob NFPA 1901 and NF omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	The Sep 01 15:41:42 EDT 2020

Public Input N	Public Input No. 53-NFPA 1910-2020 [Section No. 28.11.3]		
28.11.3 Steering			
The fire apparatus current requireme <u>chapter of the cur</u>	The fire apparatus steering system shall be replaced with a new steering system meeting the current requirements of NEPA 1901 or NEPA 1906, whichever is applicable the applicable chapter of the current edition of NEPA 1900.		
Statement of Proble NFPA 1901 and NFP Submitter Information	tatement of Problem and Substantiation for Public Input NFPA 1901 and NFPA 1906 are now in NFPA 1900. ubmitter Information Verification		
Submitter Full Name	e: Thomas Stalnaker		
Organization:	Goshen Fire Company		
Affiliation:	Admin Task Group		
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City:			
State:			
Zip:			
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Committee:	FDA-AAA		

Public Input I	No. 54-NFPA 1910-2020 [Section No. 28.11.5]
-PA	
28.11.5 Fuel Ta	ink.
The fire apparat requirements of the current edition	us fuel tank shall be replaced with a new tank that meets the current NFPA 1901 or NFPA 1906, whichever is applicable <u>the applicable chapter of</u> on of NFPA 1900
atement of Probl	em and Substantiation for Public Input
NEDA 1001 and NE	PA 1906 are now in NEPA 1900
NFPA 1901 and NF	PA 1906 are now in NFPA 1900.
NFPA 1901 and NF	PA 1906 are now in NFPA 1900. ion Verification
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NFPA 1901 and NF ubmitter Informat Submitter Full Nan	PA 1906 are now in NFPA 1900. ion Verification ne: Thomas Stalnaker
NFPA 1901 and NF ubmitter Informat Submitter Full Nan Organization:	PA 1906 are now in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company
NFPA 1901 and NF ubmitter Informat Submitter Full Nan Organization: Affiliation:	PA 1906 are now in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF ubmitter Informat Submitter Full Nan Organization: Affiliation: Street Address:	PA 1906 are now in NFPA 1900. cion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF Jbmitter Informat Submitter Full Nan Organization: Affiliation: Street Address: City:	PA 1906 are now in NFPA 1900. Sion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF ubmitter Informat Submitter Full Nan Organization: Affiliation: Street Address: City: State:	PA 1906 are now in NFPA 1900. cion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF Jobmitter Informat Submitter Full Nan Organization: Affiliation: Street Address: City: State: Zip:	PA 1906 are now in NFPA 1900. Sion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF Jobmitter Informat Submitter Full Nan Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	PA 1906 are now in NFPA 1900. Sion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 15:45:38 EDT 2020

Public Input No. 55-NFPA 1910-2020 [Section No. 28.12]				
28.12 Low-Vol	tage Electrical Systems and Warning Devices.			
The fire appara complete new s whichever is ap	The fire apparatus electrical wiring system and warning devices shall be replaced with a complete new system that meets the current requirements of NFPA 1901 or NFPA 1906, whichever is applicable the applicable chapter of the current edition of NFPA 1900.			
Statement of Prob	Statement of Problem and Substantiation for Public Input			
NFPA 1901 and NI	NFPA 1901 and NFPA 1906 are now in NFPA 1906.			
Submitter Informa	Submitter Information Verification			
Submitter Full Na	Submitter Full Name: Thomas Stalnaker			
Organization:	Goshen Fire Company			
Affiliation:	Admin Task Group			
Street Address:				
City:				
State:				
Zip:				
Submittal Date:	Tue Sep 01 15:46:57 EDT 2020			
Committee:	FDA-AAA			

Public Input	No. 56 NEDA 1910 2020 Section No. 28 13 1		
NFPA	NO. 30-NI FA 1910-2020 [Section No. 20.15]		
28.13* Driving	and Crew Compartments.		
The fire appara compartments applicable, <u>the</u> manufacturer's	The fire apparatus driving and crew compartments shall be replaced with new driving and crew compartments that meet the current requirements of NFPA 1901 or NFPA 1906, whichever is applicable, the applicable chapter of the current edition of NFPA 1900, and the chassis manufacturer's standards.		
Statement of Proh	lem and Substantiation for Public Input		
otatement of 1105			
NFPA 1901 and N	FPA 1906 are now in NFPA 1900.		
NFPA 1901 and N Submitter Informa	FPA 1906 are now in NFPA 1900. tion Verification		
NFPA 1901 and N Submitter Informa	FPA 1906 are now in NFPA 1900. tion Verification		
NFPA 1901 and N Submitter Informa Submitter Full Na	FPA 1906 are now in NFPA 1900. tion Verification me : Thomas Stalnaker		
NFPA 1901 and N Submitter Informa Submitter Full Na Organization:	 FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company 		
NFPA 1901 and N Submitter Informa Submitter Full Na Organization: Affiliation:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group		
NFPA 1901 and N Submitter Informa Submitter Full Na Organization: Affiliation: Street Address:	FPA 1906 are now in NFPA 1900. Ition Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group		
NFPA 1901 and N Submitter Informa Submitter Full Na Organization: Affiliation: Street Address: City:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group		
NFPA 1901 and N Submitter Informa Submitter Full Na Organization: Affiliation: Street Address: City: State:	FPA 1906 are now in NFPA 1900. Ition Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group		
NFPA 1901 and N Submitter Informa Submitter Full Na Organization: Affiliation: Street Address: City: State: Zip:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group		
NFPA 1901 and N Submitter Informa Submitter Full Na Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	FPA 1906 are now in NFPA 1900. Ition Verification me : Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 15:48:27 EDT 2020		

Public Input No. 57-NFPA 1910-2020 [Section No. 28.14] **28.14** Body, Compartmentation, and Hose Storage. 28.14.1 If the original fire apparatus body is to be reused, it shall be inspected for serviceability and upgraded to meet the current requirements of NEPA 1901 or NEPA 1906, whichever is applicable the applicable chapter of the current edition of NFPA 1900. 28.14.2 If the fire apparatus body, compartmentation, and hose storage areas are to be replaced, they shall be replaced with components that meet the current requirements of NFPA 1901 or NFPA 1906, whichever is applicable the applicable chapter of the current edition of NFPA 1900. 28.14.3 If new compartments are to be added to an existing fire apparatus body, they shall meet the current requirements of NEPA 1901 or NEPA 1906, whichever is applicable the applicable chapter of the current edition of NFPA 1900. 28.14.4* The fire apparatus shall comply with the current requirements for metal finish in NEPA 1901 or NFPA 1906, whichever is applicable, the applicable chapter of the current edition of NFPA 1900, including the application of reflective striping. Statement of Problem and Substantiation for Public Input NFPA 1901 and NFPA 1906 are now in NFPA 1900. Submitter Information Verification Submitter Full Name: Thomas Stalnaker Goshen Fire Company **Organization:** Affiliation: Admin Task Group Street Address: City: State: Zip: Submittal Date: Tue Sep 01 15:49:50 EDT 2020 Committee: FDA-AAA

28 15 3	
All new or upgr NFPA 1906, wh	aded parts or components shall meet the current requirements of NFPA 1901 of hichever is applicable the applicable chapter of the current edition of NFPA 190
ement of Prob	lem and Substantiation for Public Input
JEDA 1001 and N	ERA 1006 are now in NERA 1000
NFPA 1901 and N	-PA 1906 are now in NFPA 1900.
mitter Informa	tion Verification
mitter Informa Submitter Full Na	tion Verification me: Thomas Stalnaker
mitter Informa Submitter Full Na Organization:	tion Verification me: Thomas Stalnaker Goshen Fire Company
mitter Informa Submitter Full Na Organization: Affiliation:	tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
mitter Informa Submitter Full Na Organization: Affiliation: Street Address:	tion Verification me : Thomas Stalnaker Goshen Fire Company Admin Task Group
mitter Informa Submitter Full Na Organization: Affiliation: Street Address: City:	tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
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mitter Informa Submitter Full Na Organization: Affiliation: Street Address: City: State: Lip:	tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
omitter Informa Submitter Full Na Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 15:56:44 EDT 2020

Public Input	Public Input No. 59-NFPA 1910-2020 [Section No. 28.16.2 [Excluding any Sub-				
NFPA					
Sections					
If a new water ta 1906, whicheve	ank is installed, it shall meet the current requirements of NFPA 1901 or NFPA read or NFPA is applicable the applicable chapter of the current edition of NFPA 1900 .				
Statement of Prob	atement of Problem and Substantiation for Public Input				
NFPA 1901 and NF	NFPA 1901 and NFPA 1906 are now in NFPA 1900.				
Submitter Informa	ubmitter Information Verification				
Submitter Full Na	me: Thomas Stalnaker				
Organization:	Goshen Fire Company				
Affiliation:	Admin Task Group				
Street Address:					
City:					
State:					
Zip:					
Submittal Date:	Tue Sep 01 15:58:06 EDT 2020				
Committee:	FDA-AAA				

Public Input No. 60-NFPA 1910-2020 [Section No. 28.17.1 [Excluding any Sub-			
rial device is to be used, a full inspection and test as defined in NFPA 1911 22 of this standard shall be performed.			
Statement of Problem and Substantiation for Public Input			
NFPA 1911 is now part of this document.			
Submitter Information Verification			
ne: Thomas Stalnaker			
Goshen Fire Company			
Admin Task Group			
Tue Sep 01 15:59:38 EDT 2020			
FDA-AAA			
28.17.3			
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After the aerial in NFPA 1911 -	device upgrade work has been performed, a full inspection and test as defined chapters 11 and 22 of this standard shall be performed.		
tement of Prob	plem and Substantiation for Public Input		
	art of this document		
NFFA 1911 How p			
omitter Informa	ation Verification		
omitter Informa Submitter Full Na	ation Verification		
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omitter Informa Submitter Full Na Organization: Affiliation:	ation Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group		
omitter Informa Submitter Full Na Organization: Affiliation: Street Address:	ation Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group		
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Submitter Informa Submitter Full Na Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	ation Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 16:04:02 EDT 2020		

🙀 Public Input	No. 62-NFPA 1910-2020 [Section No. 28.18.1.2]
NFPA	
28.18.1.2	
Stepladders and to the minimum meet either ANS	I other types of multipurpose ladders shall be permitted to be carried in addition fire department ground ladders specified in NFPA 1901 <u>1900</u> provided they SI A14.2 or ANSI A14.5 with duty ratings of Type 1A or 1AA.
Statement of Prob	em and Substantiation for Public Input
INFPA 1901 IS NOW	in NFPA 1900.
Submitter Informa	in NFPA 1900. tion Verification
Submitter Informa	in NFPA 1900. tion Verification ne: Thomas Stalnaker
Submitter Informa Submitter Full Nar Organization:	in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Submitter Informa Submitter Full Nar Organization: Affiliation:	in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
Submitter Informa Submitter Full Nar Organization: Affiliation: Street Address:	in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
Submitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City:	in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
Submitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State:	in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
Submitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
Submitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 16:05:23 EDT 2020

28.19.1.2.1	
The tests shall the contractor.	be conducted at the manufacturer contractor 's approved facility and certified by
tement of Prob	lem and Substantiation for Public Input
The terminology sh	ould be consistent with the rest of the chanter, particularly 28 19 1 1 1
The terminology on	<u> </u>
bmitter Informat	tion Verification
bmitter Informat	tion Verification ne: Thomas Stalnaker
omitter Informat Submitter Full Nar Organization:	tion Verification ne: Thomas Stalnaker Goshen Fire Company
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bmitter Information: Submitter Full Nar Organization: Street Address: City: State: Zip: Submittal Date:	tion Verification ne: Thomas Stalnaker Goshen Fire Company Fri Oct 30 18:22:20 EDT 2020

Public Input	No. 63-NFPA 1910-2020 [Section No. 28.19.2]
NFPA	
28.19.2 Pumpi	ng Tests.
A pumping certi in the current ed <u>chapter of the c</u>	fication test shall be conducted in accordance with the test requirements defined dition of NFPA 1901 or NFPA 1906, whichever is applicable the applicable urrent edition of NFPA 1900.
Statement of Prob	lem and Substantiation for Public Input
Statement of 1105	ien and oubstantiation for Fublic input
NFPA 1901 and NF	FPA 1906 are now in NFPA 1900.
NFPA 1901 and NF Submitter Informa	FPA 1906 are now in NFPA 1900. tion Verification
NFPA 1901 and NF Submitter Informa Submitter Full Na	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker
NFPA 1901 and NF Submitter Informa Submitter Full Na Organization:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company
NFPA 1901 and NF Submitter Informa Submitter Full Nat Organization: Affiliation:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF Submitter Informa Submitter Full Nat Organization: Affiliation: Street Address:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF Submitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF Submitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City: State:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF Submitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City: State: Zip:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF Submitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	Tue Sep 01 16:07:41 EDT 2020

00 40 0 4	
28.19.3.1	
If a new fire pun <u>gpm (12,000 L/r</u> accordance with 1906 whichever	np <u>pump with a capacity of 750 gpm (3000 L/min) or greater but less that 3000 nin)</u> is installed, a pumping engine overload test shall be conducted in the test requirements defined in the current edition of NFPA 1901 or NFPA ris applicable.
Pumping Overload	t lest is not required for fire pumps less that 750 gpm or 3000 gpm and up. tion Verification
Pumping Overload	t lest is not required for fire pumps less that 750 gpm or 3000 gpm and up.
Pumping Overload mitter Informat Submitter Full Nar	t lest is not required for fire pumps less that 750 gpm or 3000 gpm and up. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Pumping Overload mitter Informat Submitter Full Nar Organization: Street Address:	t lest is not required for fire pumps less that 750 gpm or 3000 gpm and up. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Pumping Overload mitter Informat Submitter Full Nar Organization: Street Address: Citv:	t lest is not required for fire pumps less that 750 gpm or 3000 gpm and up. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Pumping Overload mitter Informat Submitter Full Nar Organization: Street Address: City: State:	t lest is not required for fire pumps less that 750 gpm or 3000 gpm and up. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Pumping Overload mitter Informat Submitter Full Nar Organization: Street Address: City: State: Zio:	t lest is not required for fire pumps less that 750 gpm or 3000 gpm and up. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Pumping Overload mitter Informat Submitter Full Nar Organization: Street Address: City: State: Zip: Submittal Date:	t lest is not required for fire pumps less that 750 gpm or 3000 gpm and up. tion Verification ne: Thomas Stalnaker Goshen Fire Company Fri Oct 30 18:31:14 EDT 2020

Public Input	No. 64-NFPA 1910-2020 [Section No. 28.19.3.1]
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28.19.3.1	
If a new fire pun accordance with 1906, whicheve	np is installed, a pumping engine overload test shall be conducted in n the test requirements defined in the current edition of NFPA 1901 or NFPA r is applicable <u>the applicable chapter of the current edition of NFPA 1900</u> .
FPA 1901 and NF	PA 1906 are now in NFPA 1900.
IFPA 1901 and NF mitter Informa	FPA 1906 are now in NFPA 1900. tion Verification
IFPA 1901 and NF mitter Informa ubmitter Full Nar	PA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker
IFPA 1901 and NF mitter Informa ubmitter Full Nar Organization:	 FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company
IFPA 1901 and NF mitter Informa Jubmitter Full Nar Organization: .ffiliation:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
IFPA 1901 and NF mitter Informa ubmitter Full Nar Organization: .ffiliation: treet Address:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
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IFPA 1901 and NF mitter Informate ubmitter Full Nar Organization: offiliation: offi	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
IFPA 1901 and NF mitter Informa ubmitter Full Nar organization: filiation: treet Address: ity: tate: ip: ubmittal Date:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 16:09:01 EDT 2020

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28.19.4 Pressu	ire Control System Test.
28.19.4.1	
If the refurbished pump, it shall be of NFPA 1901 o <u>edition of NFPA</u>	d fire apparatus is equipped with a new pressure control system on the fire e tested in accordance with the test requirements defined in the current edition r NFPA 1906, whichever is applicable the applicable chapter of the current 1900.
28.19.4.2	
If the original pro the pressure con standard .	essure control system is retained or reused, it shall be tested in accordance with ntrol device testing requirements of NFPA 1911 <u>the applicable chapter of this</u>
atement of Prob	em and Substantiation for Public Input
atement of Prob	em and Substantiation for Public Input PA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document.
atement of Problem NFPA 1901 and NF bmitter Information	em and Substantiation for Public Input PA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document.
Atement of Proble NFPA 1901 and NF bmitter Informate Submitter Full Nar	Tem and Substantiation for Public Input TPA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification me: Thomas Stalnaker
Atement of Problem NFPA 1901 and NF bmitter Information Submitter Full Nar Organization:	Iem and Substantiation for Public Input FPA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification ne: Thomas Stalnaker Goshen Fire Company
Atement of Problem NFPA 1901 and NF bmitter Information Submitter Full Nar Organization: Affiliation:	Tem and Substantiation for Public Input TPA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
Atement of Proble NFPA 1901 and NF bmitter Informate Submitter Full Nar Organization: Affiliation: Street Address:	Tem and Substantiation for Public Input TPA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Atement of Proble NFPA 1901 and NF bmitter Informate Submitter Full Nar Organization: Affiliation: Street Address: City:	Tem and Substantiation for Public Input TEPA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Atement of Proble NFPA 1901 and NF bmitter Informate Submitter Full Nar Organization: Affiliation: Street Address: City: State:	Tem and Substantiation for Public Input TPA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
Atement of Proble NFPA 1901 and NF bmitter Informate Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	Tem and Substantiation for Public Input TePA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Atement of Proble NFPA 1901 and NF bmitter Information Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	The Sep 01 16:10:08 EDT 2020

28.19.5 Primine	g System Test.
28.19.5.1	
If the refurbished be tested in acc or NFPA 1906, v 1900.	d fire apparatus is equipped with a new priming system on the fire pump, it sha ordance with the test requirements defined in the current edition of NFPA 1901 whichever is applicable the applicable chapter of the current edition of NFPA
28.19.5.2	
If the original pri priming system	ming system is retained or reused, it shall be tested in accordance with the test requirements of NFPA 1911 <u>the applicable chapter of this standard</u> .
tement of Probl NFPA 1901 and NF	em and Substantiation for Public Input PA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document.
tement of Probl NFPA 1901 and NF omitter Informat	em and Substantiation for Public Input PA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document.
tement of Probl NFPA 1901 and NF omitter Informat Submitter Full Nar	Tem and Substantiation for Public Input PA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification me: Thomas Stalnaker
tement of Probl NFPA 1901 and NF omitter Informat Submitter Full Nar Organization:	Tem and Substantiation for Public Input PA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification ne: Thomas Stalnaker Goshen Fire Company
tement of Probl NFPA 1901 and NF omitter Informat Submitter Full Nar Organization: Affiliation:	Tem and Substantiation for Public Input TPA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
tement of Probl NFPA 1901 and NF omitter Informat Submitter Full Nar Organization: Affiliation: Street Address:	Tem and Substantiation for Public Input PA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
tement of Probl NFPA 1901 and NF omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City:	Tem and Substantiation for Public Input TPA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
tement of Probl NFPA 1901 and NF omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State:	Tem and Substantiation for Public Input PA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
tement of Probl NFPA 1901 and NF omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	Tem and Substantiation for Public Input TPA 1906 are now in NFPA 1900. NFPA 1911 is now part of this document. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
tement of Probl NFPA 1901 and NF omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	The Sep 01 16:12:23 EDT 2020

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28.19.6 Vacuu	n Test.
28.19.6.1	
If the refurbishe conducted in ac 1901 or NFPA 1 <u>NFPA 1900</u> .	d fire apparatus is equipped with a new fire pump, a vacuum test shall be cordance with the test requirements defined in the current edition of NEPA 906, whichever is applicable <u>the applicable chapter of the current edition of</u>
28.19.6.2	
If the original fire with the test reg	e pump is retained or reused, a vacuum test shall be conducted in accordance uirements of NFPA 1911 the applicable chapter of this standard .
ement of Prob	em and Substantiation for Public Input PA 1906 are now in NFPA 1900. NFPA 1911 is part of this document.
ement of Prob	em and Substantiation for Public Input PA 1906 are now in NFPA 1900. NFPA 1911 is part of this document.
ement of Prob NFPA 1901 and NF mitter Informa Submitter Full Nar	em and Substantiation for Public Input PA 1906 are now in NFPA 1900. NFPA 1911 is part of this document. tion Verification me: Thomas Stalnaker
ement of Prob NFPA 1901 and NF mitter Informa Submitter Full Nar Organization:	Tem and Substantiation for Public Input TPA 1906 are now in NFPA 1900. NFPA 1911 is part of this document. tion Verification ne: Thomas Stalnaker Goshen Fire Company
ement of Prob NFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation:	Tem and Substantiation for Public Input TPA 1906 are now in NFPA 1900. NFPA 1911 is part of this document. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
ement of Prob NFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation: Street Address:	em and Substantiation for Public Input PA 1906 are now in NFPA 1900. NFPA 1911 is part of this document. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
ement of Prob NFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City:	Tem and Substantiation for Public Input TPA 1906 are now in NFPA 1900. NFPA 1911 is part of this document. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
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ement of Prob NFPA 1901 and NF mitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	Tem and Substantiation for Public Input TPA 1906 are now in NFPA 1900. NFPA 1911 is part of this document. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
tement of Prob NFPA 1901 and NF omitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	The Sep 01 16:18:16 EDT 2020

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28.19.7.1	
If the refurbishe tank-to-pump flo <u>applicable chap</u> applicable <u>1900</u>	d fire apparatus has a new water tank(s), fire pump(s), or pump piping, a wate ow test shall be conducted in accordance with the test requirements in the <u>ter of the</u> current edition of NFPA 1901 or NFPA 1906, whichever is
NEPA 1901 and NE	FPA 1906 are now in NFPA 1900.
mitter Informa	FPA 1906 are now in NFPA 1900. tion Verification
MFPA 1901 and NF mitter Informa Submitter Full Nai	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker
mitter Informa Gubmitter Full Nai Drganization:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company
MFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
MFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation: Street Address:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
MFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation: Street Address:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
TEPA 1901 and NE mitter Informa Submitter Full Nar Organization: Street Address: Sity: State:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
MFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Street Address: Sity: State: Sity:	FPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
MFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	Tue Sep 01 16:23:56 EDT 2020

Public Input No	o. 69-NFPA 1910-2020 [Section No. 28.19.8]
28.19.8 Engine S	Speed Advancement Interlock Test.
An engine speed a <u>chapter of the</u> cur be conducted.	advancement interlock test meeting the test requirements in the <u>applicable</u> rrent edition of NFPA 1901 or NFPA 1906, whichever is applicable, <u>1900</u> shall
Statement of Proble NFPA 1901 and NFP Submitter Informatio	m and Substantiation for Public Input A 1906 are now in NFPA 1900. On Verification
Submitter Full Name	e: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Sep 01 16:31:52 EDT 2020
Committee:	FDA-AAA

Public Input	Public Input No. 70-NFPA 1910-2020 [Section No. 28.19.9.1]		
28.19.9.1			
New aerial dev	vices shall be tested according to the current edition of NFPA 1901 1900.		
Statement of Pro	blem and Substantiation for Public Input		
NFPA 1901 is nov	v in NFPA 1900.		
Submitter Inform	ation Verification		
Submitter Full N	ame: Thomas Stalnaker		
Organization:	Goshen Fire Company		
Affiliation:	Admin Task Group		
Street Address:			
City:			
State:			
Zip:			
Submittal Date:	Tue Sep 01 16:34:02 EDT 2020		
Committee:	FDA-AAA		

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28.19.10.2.1	
If the refurbishe hydrostatic test <u>applicable chap</u> applicable <u>1900</u>	d fire apparatus has a new fire pump or pump piping system, a piping shall be conducted in accordance with the test requirements in the <u>the</u> ter of the current edition of NFPA 1901 or NFPA 1906, whichever is
NFPA 1901 and NF	PA 1906 are now in NFPA 1900.
NFPA 1901 and NF omitter Informa	PA 1906 are now in NFPA 1900.
NFPA 1901 and NF omitter Informa Submitter Full Nai	PA 1906 are now in NFPA 1900. tion Verification ne: Thomas Stalnaker
NFPA 1901 and NF omitter Informa Submitter Full Nai Organization:	PA 1906 are now in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company
NFPA 1901 and NF omitter Informa Submitter Full Nar Organization: Affiliation:	PA 1906 are now in NFPA 1900. tion Verification ne: Thomas Stalnaker Goshen Fire Company Admin Task Group
NFPA 1901 and NF mitter Informa Submitter Full Nar Organization: Affiliation: Street Address:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
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NFPA 1901 and NF omitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	TPA 1906 are now in NFPA 1900. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group Tue Sep 01 16:36:04 EDT 2020

Public Input N	lo. 72-NFPA 1910-2020 [Section No. 28.19.10.3]
28.19.10.3 Elec	trical System Tests.
Electrical system <u>applicable chapte</u> <u>1900,</u> on all refu	tests shall be conducted in accordance with the test requirements in the <u>er of the</u> current edition of NFPA 1901 or NFPA 1906, whichever is applicable, rbished fire apparatus.
Statement of Proble	em and Substantiation for Public Input
NFPA 1901 and NFF	PA 1906 are now in NFPA 1900.
Submitter Informati	ion Verification
Submitter Full Nam	e: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
City:	
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Submittal Date:	Tue Sep 01 16:40:49 EDT 2020
Committee:	FDA-AAA

28 19 10 / 1	
If the refurbished system shall be current edition o	d fire apparatus has a newly installed foam system or system components, the tested in accordance with the test requirements in the <u>applicable chapter of the</u> f NFPA 1901 or NFPA 1906, whichever is applicable <u>1900</u> .
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28.19.11.1	
If the refurbished transmission, dr through 28.19.1	d fire apparatus has any upgraded powertrain components (engine, iveline, or axles), it shall be road tested in accordance with 28.19.11.4 <u>3</u> 1.8.
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28.21 Safety Signs.

The contractor shall ensure that the following safety signs, as appropriate to the apparatus type and features and as described and located per FAMA TC010, *Standard Product Safety Sign Catalog for Automotive Fire Apparatus*, shall be on the apparatus prior to delivery:

- (1) FAMA01 Battery Explosion
- (2) FAMA02 Rotating Shafts
- (3) FAMA05 Spinning Fan
- (4) FAMA06 Seats Without Belts Not Occupied
- (5) FAMA07 Seated and Belted
- (6) FAMA10 Cab Equipment Mounting
- (7) FAMA12 Fire Service Tire Rating
- (8) FAMA14 Cab Seating
- (9) FAMA15 Helmet Worn in Cab (1901 Municipal Apparatus)
- (10) FAMA17 Vehicle Backing
- (11) FAMA18 Intake and Discharge Cap Pressure
- (12) FAMA22 Hose Restraint Required
- (13) FAMA23 Access Step Method
- (14) FAMA24 Riding on Exterior
- (15) FAMA25 Trained Personnel Only NFPA Required
- (16) FAMA26 No-Step
- (17) FAMA28 Rope Tie-Down 9000
- (18) FAMA30 Stabilizer Crush
- (19) FAMA31 Stabilizer Pins & Pads
- (20) FAMA32 Stabilizer Pads
- (21) FAMA34 Fall Restraint Required
- (22) FAMA35 Aerial Electrocution
- (23) FAMA36 Aerial Electrocution
- (24) FAMA37 Aerial Device Load Capacity
- (25) FAMA38 Aerial Ladder Rung Pinch
- (26) FAMA39 Aerial Inspection
- (27) FAMA41 Cab Tilt
- (28) FAMA42 Siren Noise
- (29) FAMA43 Helmet Worn in Cab (1906- Wildlands Apparatus)
- (30) FAMA44 Pump-and-Roll Fire-fighting Position Exterior
- (31) FAMA45 Pump-and-Roll Fire-fighting Position Driver
- (32) FAMA46 Aerial Device Pinch
- (33) FAMA47 Aerial Device Operator Attention Required

Statement of Problem and Substantiation for Public Input

NFPA 1901 and NFPA 1906 no longer exist.

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Submitter Full N	ame: Thomas Stalnaker	
Organization:	Goshen Fire Company	
Affiliation:	Admin Task Group	
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Submittal Date:	Tue Sep 01 16:45:42 EDT 2020	
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All new or upgr the <u>applicable o</u> applicable, <u>190</u>	aded components utilized in Level II refurbishing shall meet the requirements of <u>chapters of the</u> current edition of NFPA 1901 or NFPA 1906, whichever is <u>10</u> for those components, unless otherwise specified in this chapter.
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29.7.2	
If the cooling sys that the upgrade whichever is ap	stem or cooling system components are upgraded, the contractor shall certify ed cooling system meets the current requirements of NFPA 1901 or NFPA 1906, plicable, <u>the applicable chapter of NFPA 1900</u> and the engine manufacturer.
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Publi	ic Input No. 78-NFPA 1910-2020 [Section No. 29.9.3]
29.9. The c requir 1900	3 contractor shall certify that the upgraded fuel system or air intake system meets the current rements- <u>the applicable chapter</u> of NFPA 1901 or NFPA 1906, whichever is applicable, _ and the engine manufacturer.
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Submitte	er Full Name: Thomas Stalnaker
Organiza	ation: Goshen Fire Company
Affiliatio	n: Admin Task Group
Street A	ddress:
City:	
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Zip:	
Submitte	al Date: Mon Sep 07 12:34:32 EDT 2020
Commit	tee: FDA-AAA

	NO. 79-NFPA 1910-2020 [Section No. 29. 10.3]
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29.10.3	
The contractor s NFPA 1901 or N the engine man	shall certify that the upgraded exhaust system meets the current requirements of IFPA 1906, whichever is applicable, the applicable chapter of NFPA 1900 and ufacturer.
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29 11 3 3	
The contractor s NFPA 1901 or N the component	shall certify that the upgraded steering system meets the current requirements of IFPA 1906, whichever is applicable, the applicable chapter of NFPA 1900 and manufacturer.
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Public Input	No. 81-NFPA 1910-2020 [Section No. 29.11.4.2]
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29.11.4.2	
If an upgraded t installation mee type of apparatu is applicable <u>the</u>	ransmission is installed in the fire apparatus, the contractor shall certify that the ts the transmission manufacturer's specifications for installation in the specific is, as well as the current requirements of NFPA 1901 or NFPA 1906, whichever applicable chapter of NFPA 1900.
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29.11.5.3	
Fuel tanks that a requirements of <u>NFPA 1900</u> .	are replaced shall be replaced with new tanks that meet the current NFPA 1901 or NFPA 1906, whichever is applicable the applicable chapter of
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Public Input N	No. 83-NFPA 1910-2020 [Section No. 29.13.2 [Excluding any Sub-
NFPA	
Sections]]	
If a new driving a meets the currer <u>applicable chapt</u>	and/or crew compartment is installed, it shall be a fully enclosed design that at requirements of NFPA 1901 or NFPA 1906, whichever is applicable <u>the</u> er of NFPA 1900
Statement of Probl	em and Substantiation for Public Input
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Submitter Informat	ion Verification
Submittor Full Nan	no: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	Admin Taok Croup
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Submittal Date:	Mon Sep 07 12:43:53 EDT 2020
Committee:	FDA-AAA

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Public Input N	lo. 84-NFPA 1910-2020 [Section No. 29.13.5]
29.13.5 Fully E	nclosed Crew Compartment Conversions.
If an existing two crew compartme applicable requir	n-door open canopy–style crew compartment is converted into a fully enclosed int, the added-on portion of the crew compartment shall comply with all rements of NFPA <u>1901</u> .
Statement of Probl	em and Substantiation for Public Input
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Submitter Informat	ion Verification
Submitter Full Nan	1e: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
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Submittal Date:	Mon Sep 07 12:47:26 EDT 2020
Committee:	FDA-AAA

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Public Input I	No. 85-NFPA 1910-2020 [Section No. 29.14.2]
29.14.2*	
If a new body, ca requirements of <u>NFPA 1900</u> .	ompartmentation, or hose storage area is installed, it shall meet the current NFPA 1901 or NFPA 1906, whichever is applicable <u>the applicable chapter of</u>
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29.14.3	
If additional con requirements of <u>NFPA 1900</u> .	npartments are added to an existing body, they shall meet the current NFPA 1901 or NFPA 1906, whichever is applicable <u>the applicable chapter of</u>
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Public Input I	No. 87-NFPA 1910-2020 [Section No. 29.14.4.1]
29.14.4.1	
The fire apparat in NFPA 1901 o reflective striping	rus, when refinished, shall comply with the current requirements for metal finish r NFPA 1906 <u>the applicable chapter of NFPA 1900</u> , including the application of g.
a factor and a f Duach	le se se d'Ou be te stighting fan Dublin langet
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Public Input I	No. 88-NFPA 1910-2020 [Section No. 29.16.2]
29 16 2*	
If a new water ta edition of NEPA	ank is installed, it shall meet the <u>applicable chapter of the</u> current requirements 1901 or NFPA 1906, whichever is applicable <u>the NFPA 1900</u> .
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Public Input I	No. 89-NEPA 1910-2020 [Section No. 29 17 2]
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29.17.2	
lf a replacement NFPA 1901 <u>190</u>	aerial device is installed, the new device shall meet the current requirements of <u>0</u> and shall be so certified by the contractor.
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29.17.3	
After the aerial of in NFPA 1911- of the second sec	device upgrade work has been performed, a full inspection and test as defined <u>chapters 1 through 26 of this standard</u> shall be performed.
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Stepladders and to the minimum meet either ANS	d other types of multipurpose ladders shall be permitted to be carried in addition fire department ground ladders specified in NFPA <u>1901</u> <u>1900</u> provided they SI A14.2 or ANSI A14.5 with duty ratings of Type 1A or 1AA.
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29.19.2.1	
If the refurbishe shall be conduc <u>of the</u> current e	d fire apparatus is equipped with a new or upgraded fire pump, the pumping test ted in accordance with the test requirements defined in the <u>applicable chapter</u> dition of NFPA 1901 or NFPA 1906, whichever is applicable <u>1900</u> .
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Public Input I	No. 93-NFPA 1910-2020 [Section No. 29.19.3.1]
29.19.3.1	
If the refurbishe engine overload edition of NFPA	d fire apparatus is equipped with a new or upgraded fire pump, a pumping test meeting the test requirements in the <u>applicable chapter of the</u> current 1901 or NFPA 1906, whichever is applicable, <u>1900</u> shall be conducted.
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Public Input	No. 94-NFPA 1910-2020 [Section No. 29.19.4.1]
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29.19.4.1	
If the refurbishe the fire pump, th requirements de 1906, whicheve	d fire apparatus is equipped with a new or upgraded pressure control device on ne pressure control device shall be tested in accordance with the test efined in the <u>applicable chapter of the</u> current edition of NFPA 1901 or NFPA r is applicable <u>1900</u> .
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Public Input	No. 95-NFPA 1910-2020 [Section No. 29.19.4.2]
PA	
29.19.4.2	
If the original propressure controns to the pressure to the pr	essure control device is retained, it shall be tested in accordance with the I system test requirements of NFPA 1911 <u>chapters 1 through 26 of this</u> s not been tested within the previous 12 months, or if any work has been done control device.
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Public Input	No. 96-NEPA 1910-2020 [Section No. 29 19 5 1]
FPA	
29.19.5.1	
If the refurbishe pump, the primi the <u>applicable c</u> applicable <u>1900</u>	d fire apparatus is equipped with a new or upgraded priming system on the fire ng system shall be tested in accordance with the test requirements defined in <u>hapter of the</u> current edition of NFPA 1901 or NFPA 1906, whichever is
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Public Input	No. 97-NFPA 1910-2020 [Section No. 29.19.5.2]
29.19.5.2	
If the original pr system test requ system has not priming system.	iming system is retained, it shall be tested in accordance with the priming uirements of NFPA 1911, <u>chapters 1 through 26 of this standard</u> if the priming been tested within the previous 12 months, or if any work has been done to the
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Public Input I	No. 98-NFPA 1910-2020 [Section No. 29.19.6.1]
29.19.6.1	
If the refurbishe test shall be cor <u>the</u> current editi	d fire apparatus has a new or upgraded fire pump or pump piping, a vacuum iducted in accordance with the test requirements in the <u>applicable chapter of</u> on of NFPA 1901 or NFPA 1906, whichever is applicable <u>1900</u> .
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Public Input	Public Input No. 99-NFPA 1910-2020 [Section No. 29.19.6.2]	
29.19.6.2		
If the original fir accordance with <u>standard</u> if that been done to th	e pump and pump piping are retained, a vacuum test shall be conducted in a the vacuum test requirements of NFPA 1911, <u>chapters 1 through 26 of this</u> test has not been conducted within the previous 12 months, or if any work has e pump or piping.	
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Public Input	No. 100-NFPA 1910-2020 [Section No. 29.19.7.1]
FPA	
29.19.7.1	
If the refurbishe water tank-to-pu <u>applicable chap</u> applicable <u>1900</u>	d apparatus has a new or upgraded water tank(s), pump(s), or pump piping, a ump flow test shall be conducted in accordance with the test requirements in the ter of the current edition of NFPA 1901 or NFPA 1906, whichever is
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29.19.7.2	
If the original wa test shall be cor NFPA 1911, <u>ch</u> the previous 12 piping.	ater tank(s), pump(s), and pump piping are reused, a water tank-to-pump flow nducted in accordance with the water tank-to-pump flow test requirements of <u>apters 1 through 26 of this standard</u> if that test has not been conducted within months, or if any work has been done to the pump(s), water tank(s), and pump
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Public Input N	lo. 102-NFPA 1910-2020 [Section No. 29.19.8]
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29.19.8 Engine	Speed Advancement Interlock Test.
An engine speed <u>chapter of the</u> cu be conducted.	advancement interlock test meeting the test requirements in the <u>applicable</u> irrent edition of NFPA 1901 or NFPA 1906, whichever is applicable, <u>1900</u> shall
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Affiliation:	Admin Task Group
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Committee:	FDA-AAA

Public Input	No. 103-NFPA 1910-2020 [Section No. 29.19.9.1]
PA	
29.19.9.1	
If a new or upgr apparatus shall manufacturer's by the purchase	aded aerial device is installed on the refurbished fire apparatus, the completed be tested according to the test requirements of NFPA <u>1901</u> <u>1900</u> at the approved facility and certified by an independent testing organization approved er.
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29.19.9.2	
If the original accordance with <u>standard</u> if the <u>chapters 1 throu</u> done to the aeri	erial device is reused, the completed apparatus shall be inspected and tested in the complete requirements of NFPA 1911, <u>chapters 1 through 26 of this</u> aerial device has not been tested to the complete requirements of NFPA 1911 ugh 26 of this standard within the previous 12 months, or if any work has been al device or related systems.
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29.19.10.1.1	
A water tank cap whichever is app refurbished fire a	pacity test meeting the current requirements of NFPA 1901 or NFPA 1906, plicable, the applicable chapter of NFPA 1900 shall be conducted on all apparatus having newly installed water tanks.
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Public Input	No. 106-NFPA 1910-2020 [Section No. 29.19.10.2.1]
29.19.10.2.1*	
If any work is co the fire apparatu new relay board <u>applicable chap</u> applicable <u>1900</u>	onducted that substantially changes the original low-voltage electrical system of us or adds new loads (such as adding a load management system, new lights, ls, etc.), the apparatus shall be tested according to the requirements of the ter of the current edition of NFPA 1901 or NFPA 1906, whichever is
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29.19.10.3.1"	
changes the ori voltage electrica reels, and so fo the current editi	ginal line-voltage electrical system on the fire apparatus or adds new line- al loads such as lights, permanently connected equipment, receptacles, cord rth, the apparatus shall be tested according to the applicable requirements of on of NFPA <u>1901</u> .
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29.19.10.4.1	
If the refurbishe accordance with 1901 or NFPA 1	d fire apparatus has a new foam system, the system shall be tested in a the test requirements in the <u>applicable chapter of the</u> current edition of NFPA 906, whichever is applicable <u>1900</u> .
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PA	
29.20.3	
If the original fire provided on the with the speed of position of the p by the engine m	e pump is replaced with a new fire pump, a new test <u>plate</u> <u>label</u> shall be pump operator's panel that gives the rated discharges and pressures together of the engine, as determined by the certification tests required by 6.19.1, the arallel-series pump as used, and the governed speed of the engine as stated anufacturer on a certified brake horsepower curve.
29.20.3.1	
The test plate <u>la</u> attached to the v	<u>bel</u> shall be stamped with complete information at the contractor's facility and vehicle prior to delivery.
atement of Probl	em and Substantiation for Public Input
NFPA 1910 should these items when the	use the same terminology as NFPA 1900 and other NFPA documents use about ne apparatus is built. uts for This Document
Public Input No. 21	Related InputRelationship3-NFPA 1910-2020 [Section No. 19.2.1]
Ibmitter Informat	ion Verification
Submitter Full Nan	ne: Thomas Stalnaker
Organization: Street Address: City:	Goshen Fire Company
State:	
Zip:	
Zip: Submittal Date:	Fri Oct 30 15:19:56 EDT 2020



29.21 Safety Signs.

The contractor shall ensure that the following safety signs, as appropriate to the apparatus type and features and as described and located per FAMA TC010, *Standard Product Safety Sign Catalog for Automotive Fire Apparatus*, shall be on the apparatus prior to delivery:

- (1) FAMA01 Battery Explosion
- (2) FAMA02 Rotating Shafts
- (3) FAMA05 Spinning Fan
- (4) FAMA06 Seats Without Belts Not Occupied
- (5) FAMA07 Seated and Belted
- (6) FAMA10 Cab Equipment Mounting
- (7) FAMA12 Fire Service Tire Rating
- (8) FAMA14 Cab Seating
- (9) FAMA15 Helmet Worn in Cab (1901 Municipal Apparatus)
- (10) FAMA17 Vehicle Backing
- (11) FAMA18 Intake and Discharge Cap Pressure
- (12) FAMA22 Hose Restraint Required
- (13) FAMA23 Access Step Method
- (14) FAMA24 Riding on Exterior
- (15) FAMA25 Trained Personnel Only NFPA Required
- (16) FAMA26 No-Step
- (17) FAMA28 Rope Tie-Down 9000
- (18) FAMA30 Stabilizer Crush
- (19) FAMA31 Stabilizer Pins & Pads
- (20) FAMA32 Stabilizer Pads
- (21) FAMA34 Fall Restraint Required
- (22) FAMA35 Aerial Electrocution
- (23) FAMA36 Aerial Electrocution
- (24) FAMA37 Aerial Device Load Capacity
- (25) FAMA38 Aerial Ladder Rung Pinch
- (26) FAMA39 Aerial Inspection
- (27) FAMA41 Cab Tilt
- (28) FAMA42 Siren Noise
- (29) FAMA43 Helmet Worn in Cab (1906- Wildlands Apparatus)
- (30) FAMA44 Pump-and-Roll Fire-fighting Position Exterior
- (31) FAMA45 Pump-and-Roll Fire-fighting Position Driver
- (32) FAMA46 Aerial Device Pinch
- (33) FAMA47 Aerial Device Operator Attention Required

Statement of Problem and Substantiation for Public Input

Update due to document consolidation.

Submitter Informa	tion Verification	
Submitter Full Na	me: Thomas Stalnaker	
Organization:	Goshen Fire Company	
Affiliation:	Admin Task Group	
Street Address:		
City:		
State:		
Zip:		
Submittal Date:	Mon Sep 07 14:28:52 EDT 2020	
Committee:	FDA-AAA	



A.6.3.1(4)		
Tread depth sho amount of tread	buld be checked with a tread depth g left is indicated in $\frac{1}{32}$ in. (0.8 – <u>1</u> mm	auge. When inserted into the tire tread, the).
tatement of Prob	lem and Substantiation for P	Public Input
On a mechanical (a mm. Digital tire trea smaller units.	analog) tire gauge, metric measurem ad gauges measure both imperial an	ents are in units of 1 mm, not multiples of 0.8 d metric measurements digitally in much
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	Related Input	<u>Relationship</u>
Public Input No. 22	Related Input 26-NFPA 1910-2020 [Section No. A.(<u>Relationship</u> 6.11.1(7)]
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A.6.9.1(6)	
Beginning with t with electronic of prevent engine s parking brake en the chassis tran mode.	he 1991 edition of NFPA 1901 <u>and then NFPA 1900</u> , fire apparatus equipped or electric engine throttle controls are required to include an interlock system to speed advancement, unless the chassis transmission is in neutral with the ngaged; or unless the parking brake is engaged, the fire pump is engaged, and smission is in pumping gear; or unless the apparatus is in the "okay to pump"
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A.6.11.1(7)	
Tread depth sho amount of tread	build be checked with a tread depth gauge. When inserted into the tire tread, the left is indicated in $\frac{1}{32}$ in. (0.8- <u>1</u> mm) increments.
tatement of Probl	em and Substantiation for Public Input
On a mechanical (a mm. Digital tire trea smaller units.	nalog) tire gauge, metric measurements are in units of 1 mm, not multiples of 0. Id gauges measure both imperial and metric measurements digitally in much
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A.8.14.6	
For the safety of should be moun	f personnel riding in the driving or crew area, the equipment specified in 8.14.6 ted in accordance with the requirements of NFPA <u>1901</u> <u>1900</u> .
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A.8.15.4	
lf the emergenc adding the stripi NFPA 1901, NF	y vehicle does not have the reflective striping, consideration should be given to ng in accordance with applicable sections of the current editions <u>edition</u> of PA 1906, NFPA 1917, <u>1900,</u> or other applicable documents.
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A.8.15.5	
If the emergenc adding the warn of NFPA 1901, I	y vehicle does not have the warning labels, consideration should be given to ing labels in accordance with applicable sections of the current editions - <u>edition</u> NFPA 1906, NFPA 1917, <u>1900,</u> or other applicable documents.
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Public Input N	o. 216-NFPA 1910-2020 [Section No. A.8.15.5]
A.8.15.5	
If the emergency to adding the war editions of NFPA	vehicle does not have the warning labels <u>signs</u> , consideration should be given ning labels <u>signs</u> in accordance with applicable sections of the current 1901, NFPA 1906, NFPA 1917, or other applicable documents.
Statement of Proble	em and Substantiation for Public Input
Per the definitions ar and other NFPA door A Label gives identifi An Instruction Plate of A Sign gives a warni NFPA 1910 should u these items when the	nd consistent usage in NFPA 1901/1906/1917/1900, the NFPA Glossary of Terms, uments: cation or information gives instructions ng. se the same terminology as NFPA 1900 and other NFPA documents use about e apparatus is built.
Related Public Inpu	ts for This Document
Public Input No. 213	Related InputRelationship3-NFPA 1910-2020 [Section No. 19.2.1]
Submitter Informati	on Verification
Submitter Full Nam	e: Thomas Stalnaker
Organization:	Goshen Fire Company
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Fri Oct 30 16:09:08 EDT 2020
Committee:	FDA-AAA

A.10.2.4.2	
Pump shift contr individually or in pumps have ma panel on split-sh such as a switch need to be inspe maintenance pro	rols can include electrical, pneumatic, or mechanical components working a combination to shift the pump drive system into and out of pump mode. Some nual backup shift controls. Pump shift indicators in-cab and on the operator's haft PTO pump drive systems typically require an electromechanical device, in mounted on the pump transmission, to sense pump shift status. The controls ected, diagnostically checked, and lubricated as part of a preventive ogram.
Beginning with t with electronic of prevent engine s parking brake el the chassis tran	he 1991 edition of NFPA 1901 <u>and then NFPA 1900</u> , fire apparatus equipped or electric engine throttle controls are required to include an interlock system to speed advancement, unless the chassis transmission is in neutral with the ngaged; or unless the parking brake is engaged, the fire pump is engaged, and smission is in pumping gear; or unless the apparatus is in the "okay to pump"
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A.12.1	
It is important for understand the proportioner sys characteristics, on foam concer foam and foam conditions at all	or the operator, maintenance personnel, and fire apparatus technician to types and properties of mechanical foam and its application to maintain a foam stem. Specific information regarding foam concentrates, their corrosive their biodegradability, and their application is available in NFPA 11. Information ntrates for Class A fires is available in NFPA 1150. A thorough knowledge of systems will enhance the ability to maintain systems in peak operating times.
There are many limited to, the fo	designs for foam proportioning systems. These systems include, but are not ollowing:
(1) Eductor sys	stems
(2) Self-eductin	ng master stream nozzles
(3) Intake-side	foam proportioning systems
(4) Around-the	-pump foam proportioning systems
(5) Balanced p	ressure foam proportioning systems
(6) Direct injec	tion foam proportioning systems
Annex A of NFF material will ass	PA 1901– <u>1900</u> describes these systems and variations thereof. A review of that sist with the understanding of foam proportioning systems.
Annex A of NFF material will ass	PA 1901– <u>1900</u> describes these systems and variations thereof. A review of that sist with the understanding of foam proportioning systems.
Annex A of NFF material will ass Statement of Prob	PA 1901– 1900 describes these systems and variations thereof. A review of that sist with the understanding of foam proportioning systems.
Annex A of NFF material will ass Statement of Prob	PA 1901– <u>1900</u> describes these systems and variations thereof. A review of that sist with the understanding of foam proportioning systems. Iem and Substantiation for Public Input ument consolidation.
Annex A of NFF material will ass Statement of Prob Update due to docu	PA 1901– <u>1900</u> describes these systems and variations thereof. A review of that sist with the understanding of foam proportioning systems. Iem and Substantiation for Public Input ument consolidation. tion Verification
Annex A of NFF material will ass Statement of Prob Update due to doct Submitter Informa Submitter Full Nat	 PA 1901– 1900 describes these systems and variations thereof. A review of that sist with the understanding of foam proportioning systems. Iem and Substantiation for Public Input ument consolidation. tion Verification me: Thomas Stalnaker
Annex A of NFF material will ass Statement of Prob Update due to docu Submitter Informa Submitter Full Nat Organization:	 PA 1901- 1900 describes these systems and variations thereof. A review of that sist with the understanding of foam proportioning systems. Iem and Substantiation for Public Input ument consolidation. tion Verification me: Thomas Stalnaker Goshen Fire Company
Annex A of NFF material will ass Statement of Prob Update due to docu Submitter Informa Submitter Full Nat Organization: Affiliation:	 PA 1901– 1900 describes these systems and variations thereof. A review of that sist with the understanding of foam proportioning systems. Iem and Substantiation for Public Input ument consolidation. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Annex A of NFF material will ass Statement of Prob Update due to doct Submitter Informa Submitter Full Nat Organization: Affiliation: Street Address:	 PA 1901– 1900 describes these systems and variations thereof. A review of that sist with the understanding of foam proportioning systems. Iem and Substantiation for Public Input ument consolidation. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
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Annex A of NFF material will ass Statement of Prob Update due to docu Submitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City: State:	A 1901– <u>1900</u> describes these systems and variations thereof. A review of that sist with the understanding of foam proportioning systems. Iem and Substantiation for Public Input ument consolidation. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group
Annex A of NFF material will ass Statement of Prob Update due to doct Submitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City: State: Zip:	 A 1901- <u>1900</u> describes these systems and variations thereof. A review of that sist with the understanding of foam proportioning systems. Iem and Substantiation for Public Input ument consolidation. tion Verification me: Thomas Stalnaker Goshen Fire Company Admin Task Group

A.15.8	
There are refill s current requirem independent thin and closed syste of a failed cylind emergency vehi the unit meets c refill stations tha	stations currently on emergency vehicles that were never designed to the ments of NFPA 1901–1900 and whose design has never been certified by an rd-party certification organization. These include open-top fragmentation tubes ems that have never been tested to determine if they will contain all fragments ler so as to protect the operator. If a commercial refill station is on the cle, it might be possible to confirm with the manufacturer whether the design of urrent standards. Older refill stations should be considered for replacement with at meet the current NFPA 1901–1900 standard.
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A.19.4.1	
The parking brain 1901 has <u>and n</u> emergency vehic brake system wa AHJ operates th standard operates	ke should be tested to the chassis manufacturer's recommendations. NFPA ow NFPA 1900 have_required a parking brake system to hold a fully loaded cle on at least a 20 percent grade since 1991. If the emergency vehicle parkin as not designed to perform up to these or applicable federal standards, or if the e emergency vehicle beyond these standards, the AHJ should develop a ing guideline to supplement the emergency vehicle parking brake system.
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Public Input N	No. 227-NFPA 1910-2020 [Section No. A.21	1.5.3.3]
A.21.5.3.3		
Square-edged ro pump flows foun be determined u	ound orifice and pressure gauge is a very accurate me ad on wildland fire apparatus. Flow through a square-e- ising the following formula:	thod of measuring low dged round orifice shall
	$Q = 29.8 \cdot C \cdot d^2 \cdot \sqrt{P}$	[A.21.5.3.3
where:		
Q = flow (gpm)		
C = orifice discha	arge coefficient (0.62 recommended)	
<i>d</i> = orifice diame	eter (in.)	
P = pressure (ps	si)	
For best accurac of the orifice.	cy, the line to the square-edged round orifice should be	e three times the diameter
If the nozzle diar 25.4 to convert t the pressure sho square inch (psi) per minute (L/mi	meter is measured in millimeters, the diameter should he measurement to inches. If the pressure is measure buld be <u>multiplied</u> <u>divided</u> by 6.895 to convert the mea). The resulting flow can be converted from gallons per in) by multiplying by 3.785.	be multiplied <u>divided</u> by ed in kilopascals (kPa), asurement to pounds per r minute (gpm) to liters
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The arithmetic as de	efined is incorrect. 25.4 mm=1 inch, 6.895 kPa=1psi.	
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A.21.6.2.2.1		
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The 1996 edition engine that drive power the fixed operating at rate to run both simu pump and the fix operator will know	n of NFPA 1901, <u>now NFPA 1900</u> , added a requirement stipulating that, if the es the pump also drives a fixed power source, that engine needs to be able to power source at a minimum of 50 percent of its rated capacity while the pump is ed capacity. Older fire apparatus might or might not have the engine horsepower litaneously. It is recommended that, where the same engine drives both the xed power source, the capability to run both should be investigated so the bow the capability of the apparatus.	
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A.21.7.4	
Beginning with t with electronic of prevent engine s parking brake en the chassis tran mode.	the 1991 edition of NFPA 1901, <u>and now NFPA 1900</u> , fire apparatus equipped or electric engine throttle controls are required to include an interlock system to speed advancement, unless the chassis transmission is in neutral with the ngaged; or unless the parking brake is engaged, the fire pump is engaged and smission is in pumping gear; or unless the apparatus is in the "okay to pump"
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	NO. 228-NFPA 1910-2020 [Section No. A.21.7.7.2.2]
A.21.7.7.2.2	
If the pump is a changeover) va transfer valve po comparison with one of the probl	two-stage, parallel/series-type unit, then operation of the transfer (that is, lve should be checked thoroughly. Conducting the pumping test with the ositioned as specified in 21.7.7.2.2 will ensure that the valve is exercised. If a the original engine speeds shows a significant difference for any of the tests, ems could be with the transfer valve.
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This section is a du talking about parall	plicate of A.21.7.7.2.3 which is the correct place for the text since it is the section el/series pumps.
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Public Input	No. 6-NFPA 1910-2020 [Section No. A.21.8.1]
NFPA	
A.21.8.1	
When operating temperature of o level that can be apparatus can b such conditions temperature sho	at or near full engine power while stationary, the generated heat can raise the certain chassis components, pumping system components, or both above the e touched without extreme discomfort or injury. However, as long as the be operated and used satisfactorily for the required duration of the test under and the engine coolant temperature is within normal range, the rise in bould be considered acceptable.
For the pumping those required a passes the pum	test, normal wear in the pumping system can require speeds greater than It the time of delivery. Such variances are acceptable as long as the apparatus ping test without exceeding the governed engine speed.
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A.22.8.8.2

The time within which an aerial device is required to be raised from the bedded position to maximum elevation and extension and rotated 90 degrees after the stabilizers are set is shown in Table A.22.8.8.2. Two or more of these functions are permitted to be performed simultaneously.

Table A.22.8.8.2 Maximum Time to Elevate, Rotate, and Extend an Aerial Device

Edition of NFPA			
<u>1901/1900</u>	Aerial Ladder	Elevating Platform	Water Tower
2003 _ <u>2023</u>	120 seconds for rated vertical height of 110 ft (34 m) or less	150 seconds for rated vertical height of 110 ft (34 m) or less	105 seconds
2016	180 seconds for rated vertical height over 110 ft (34 m) 120 seconds for rated vertical height of 110 ft	No time limit for rated vertical height over 110 ft (34 m) 150 seconds for rated vertical height of 110 ft	105 seconds
	(34 m) or less 180 seconds for rated vertical height over 110 ft (34 m)	(<u>34 m) or less</u> <u>No time limit for rated</u> <u>vertical height over 110 ft</u> (<u>34 m)</u>	
<u>2009</u>	120 seconds for rated vertical height of 110 ft (34 m) or less	<u>150 seconds for rated</u> vertical height of 110 ft (34 m) or less	105 seconds
	180 seconds for rated vertical height over 110 ft (34 m)	<u>No time limit for rated</u> vertical height over 110 ft (<u>34 m)</u>	
2003	<u>120 seconds for rated</u> vertical height of 110 ft (<u>34 m) or less</u>	150 seconds for rated vertical height of 110 ft (34 m) or less	105 seconds
	<u>180 seconds for rated</u> <u>vertical height over 110</u> <u>ft (34 m)</u>	<u>No time limit for rated</u> <u>vertical height over 110 ft</u> (<u>34 m)</u>	
1999	120 seconds for rated vertical height of 110 ft (34 m) or less	150 seconds for rated vertical height of 110 ft (34 m) or less	105 seconds
	-	180 seconds for rated vertical height over 110 ft (34 m)	No time limit for rated vertical height over 110 ft (34 m)
1996	120 seconds for rated vertical height of 110 ft (34 m) or less	150 seconds for rated vertical height of 110 ft (34 m) or less	105 seconds
	_	180 seconds for rated vertical height over 110 ft (34 m)	No time limit for rated vertical height over 110 ft (34 m)
1991	120 seconds for rated vertical height of 110 ft (34 m) or less	150 seconds for rated vertical height of 110 ft (34 m) or less	105 seconds

<u>NFPA</u> <u>1901/1900</u>	<u>Aerial Ladder</u>	Elevating Platform	Water Tower
	-	180 seconds for rated vertical height over 110 ft (34 m)	No time limit for rated vertical height over 110 ft (34 m)
1985*	60 seconds	150 seconds	105 seconds
1979	60 seconds	150 seconds	105 seconds
1975	60 seconds	150 seconds	150 seconds
1973	60 seconds	150 seconds	120 seconds
1971	60 seconds	150 seconds	120 seconds
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A.27.	1.1
This of fire ap applic NFPA	locument is designed to be used to aid in developing specifications for the refurbishing of oparatus. It is the intent of this standard to ensure that refurbished fire apparatus meet all able federal motor vehicle regulations as well as the applicable portions of NFPA 1901 or 1906, whichever is applicable 1900.
This s	standard will do the following:
(1) lo	dentify minimum levels of refurbishing
(2) E c	stablish minimum requirements for inspection and/or replacement of all vehicle omponents
(3) C a	reate informational checklists that will identify areas on the vehicle that should be ddressed when considering refurbishing
(4) C	create a guideline for any personnel engaged in preparing specifications for fire
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A.27.2	
It is recommend installed whene components, or whichever is ap help to make the of parts for main	led that upgraded components or systems meeting current NFPA standards be ver possible for enhanced safety and serviceability. Replacement parts, systems should meet the current requirements of NFPA 1901 or NFPA 1906, plicable the applicable chapters of NFPA 1900. Meeting the requirements will e fire apparatus as safe as possible, in addition to making for easier availability ntenance and repair.
Where local ope should carefully vehicle clearand special attention refurbished app the refurbished	erating conditions necessitate apparatus of unusual design, the purchaser define the special requirements in the specifications. Height, width, under- ce, wheelbase, turning radius, length, and so forth, can occasionally need n. For example, a community having low overpasses needs to have a aratus capable of traveling underneath these overpasses. The specifications for apparatus should state the maximum travel height that is allowable.
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A.4.5.14.1 There examples are:	e are many types of vehicle data management system available. Some
Vehicle Data Rec	corders
Telematics	
Vehicle to Vehicle	e communications (V2V)
Traffic preemptio	<u>n</u>
Additional Propose File Nar 1912_PI_No5_J Statement of Proble	d Changes <u>ne Description Approved</u> McDonald.pdf 1912_PI No. 5_J. McDonald em and Substantiation for Public Input
Examples of vehicle	data management systems for new section.
Submitter Informati	on Verification
Submitter Full Nam Organization:	e: John McDonald US General Services Administra
Street Address:	
City:	
State:	
Zip: Submittel Deter	
Committee:	FDA-AAA

Public Input No. 148-NFPA 1910-2020 [Section No. A.28.3.5]

A.28.3.5

NFPA <u>1901</u> requires electronic stability control for those apparatus that fail to pass the established roll stability criteria. The following items impact the roll stability safety of the apparatus and should be considered when making decisions on how to refurbish the apparatus.

Custom fire apparatus cab. The nature of the custom fire apparatus cab makes it much stronger in rollovers than typical conventional commercial chassis cabs. There is much anecdotal evidence to indicate that the crashworthiness of a typical custom fire apparatus cab is significantly greater than a typical commercial cab, and most custom chassis manufacturers can provide test data on cab integrity.

Lateral acceleration alert device. There are both mechanical and electronic devices available that will measure the lateral acceleration of a vehicle. Although these devices will not prevent rollover, they can be used effectively as a driver training tool to indicate when the vehicle is approaching the roll threshold and as a reminder to the driver that excessive lateral acceleration can lead to a rollover event.

Side roll protection. Many custom fire apparatus manufacturers offer side air bags or curtains that inflate during a roll event and that are usually combined with seat belt pretensioning devices and suspension seat pull-down devices. This option can reduce injury during a rollover as long as the occupants are seated and belted.

Roll stability control. This technology electronically senses the lateral acceleration of the vehicle and takes action by depowering the engine and applying the brakes if the vehicle approaches a roll threshold. The effectiveness of this product is limited to events on relatively flat pavement, since it cannot do much to help the situation once a vehicle is off the road and leaning into a ditch.

Electronic stability control (ESC). ESC uses a steering wheel position sensor, a vehicle yaw sensor, a lateral accelerometer, and individual wheel brake controls in conjunction with the antilock brake system (ABS). The system tracks the direction that the driver intends to steer and uses brake application at individual wheels to help straighten out the vehicle.

Driver skill and experience. While the design and features of the vehicle are important to safe driving, the most important aspect of crash prevention is the skill and experience of the operator. The operator's attitude, training, experience, and qualifications, and the application of those qualities, are the most important elements in crash prevention. The operator must ensure that the physical limits of the vehicle are not exceeded. Driver skill is developed only through training and practice.

Statement of Problem and Substantiation for Public Input

Update due to document consolidation.

Submitter Information Verification

Submitter Full Name:	Thomas Stalnaker
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A.29.12.2	
All components <u>chapters of the</u> standard provide responding and contractor furnis repair techniciar system.	that are upgraded should be replaced with components meeting the <u>applicable</u> current edition of NFPA 1901 or NFPA 1906, as appropriate 1900. The current es additional lighting for safety and makes provision for two modes of operation blocking the right-of-way. Consideration should also be given to having the h a wiring schematic of the rewired areas of the apparatus to enable vehicle as to more easily troubleshoot the electrical system or make additions to the
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A.29.12.3.4.1	
Reduced crew s besides that of c with higher prior system.	izes have forced the apparatus operator to assume many new fireground tasks operating the apparatus. Even if the operator is at the apparatus, he is too busy ity tasks to pay much attention to monitoring the condition of the electrical
Electrical loads supplied only by designed to prov damaged when electrical system	on modern fire apparatus frequently exceed the alternator capacity and can be the deep discharge of the apparatus batteries. The high-cycle batteries that are vide the large amount of amperage to crank modern diesel engines are severely deeply discharged. The automatic load management is intended to protect the n from needless damage while maintaining the operation of essential devices.
It is important th electrical loads a order least likely minimum require chapter of NFPA	at the priority of all managed loads be specified by the purchaser so that, as are disconnected from the apparatus' electrical system, they are shed in an to affect emergency operations. Optical warning devices in excess of the ed in NFPA 1901 or NFPA 1906, whichever is applicable, the applicable of 1900, can and should be load managed
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	NO. 151-NFPA 1910-2020 [Section No. A.29.12.4]
A.29.12.4	
Consideration s <u>chapter of the</u> of both for improve when operating safety, as well a	hould be given to upgrading the optical warning devices to the <u>applicable</u> surrent edition of NFPA 1901 or NFPA 1906, whichever is applicable, <u>1900,</u> ed safety during emergency responses, as well as to minimize current draw at the scene. The upgraded lighting should provide an increased measure of s minimize loads to the low-voltage electrical system.
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B.3 Calculating the Results.

If nozzles and pitot tubes have been used to measure pump capacity, the values of capacity in gallons per minute are determined by the following formula:

gpm = 29.83
$$c(d)^2 \sqrt{p}$$
 [B.3a]

where:

c = coefficient of discharge of the nozzle used

d = diameter of nozzle (in.)

p = pressure at pitot gauge (psi)

If the nozzle diameter is measured in millimeters, the diameter should be <u>multiplied</u> <u>divided</u> by 25.4 to convert the measurement to inches. If the pressure is measured in kilopascals (kPa), the pressure should be <u>multiplied</u> <u>divided</u> by 6.895 to convert the measurement to pounds per square inch (psi). The resulting flow can be converted from gallons per minute (gpm) to liters per minute (L/min) by multiplying by 3.785.

The pitot pressure should be the average of several readings and should be corrected for gauge error.

For nozzles sized from $\frac{1}{4}$ in. to $\frac{21}{2}$ in. (6.3 mm to 63 mm), values of capacity can be approximated from Table B.3(a), Table B.3(b), Table B.3(c), and Table B.3(d); however, because these values are based on certain assumed coefficients of discharge, they can be considerably at variance with the actual values. For nozzles larger than $\frac{21}{2}$ in. (63 mm), approximate values of capacity in gallons per minute can be determined by the following formula:

$$\operatorname{gpm} = F\sqrt{p}$$
 [B.3b]

where:

F = nozzle factor from Table B.3(e)

p = pressure at pitot gauge (psi)

Table B.3(a) Discharge Table for Smooth Nozzles — ¹/₄ Inch Through ⁷/₁₆ Inch — in Gallons per Minute (Nozzle Pressure Measured by Pitot Gauge)

	No	ozzle [Diame	eter		No	ozzle [Diame	eter
Nozzle Pressure	(<u>in.)*</u>				Nozzle Pressure		(<u>ir</u>	<u>ı.)*</u>	
(<u>psi</u>)	1⁄4	⁵ /16	³ /8	⁷ /16	(<u>psi)</u>	1 <u>/4</u>	⁵ /16	³ /8	⁷ /16
5	4	6	9	13	62	14	22	32	44
6	4	6	10	14	64	14	22	32	45
7	4	7	11	15	66	14	23	33	46
8	5	7	11	16	68	14	23	33	46
9	5	8	12	17	70	15	24	34	47
10	6	9	13	18	72	15	24	34	48
12	6	10	15	19	74	15	24	35	48
14	7	11	15	21	76	15	24	35	49
16	7	12	16	22	78	15	24	36	50
18	7	12	17	24	80	16	25	36	50
20	8	13	18	25	82	16	25	37	51
22	8	13	19	26	84	16	25	37	51
24	8	13	20	27	86	16	26	37	52
26	9	14	21	29	88	16	26	38	53

	N	ozzle I	Diam	eter		No	ozzle I	Diamo	eter	
Nozzle Pressure		(<u>ir</u>	<u>ı.)*</u>		Nozzle Pressure		(<u>ir</u>	<u>ı.)*</u>		_
(<u>psi</u>)	1/4	⁵ /16	³ /8	⁷ /16	(<u>psi</u>)	1/4	⁵ ⁄16	³ /8	7/16	
28	9	14	21	30	90	17	27	39	53	_
30	10	15	22	31	92	17	27	39	54	-
32	10	15	23	32	94	17	27	39	54	
34	11	16	23	33	96	17	27	40	55	_
36	11	16	24	34	98	17	27	40	55	
38	11	17	25	35	100	18	28	41	56	
40	11	18	26	35	105	18	29	42	57	
42	11	18	26	36	110	19	29	43	59	
44	12	18	27	37	115	19	30	43	60	
46	12	19	28	38	120	19	31	44	61	_
48	12	19	28	39	125	20	31	45	63	_
50	13	20	29	40	130	20	32	46	64	
52	13	20	29	40	135	21	33	47	65	_
54	13	20	30	41	140	21	33	48	66	_
56	13	21	30	42	145	21	34	49	68	_
58	13	21	31	43	150	22	34	50	69	_
60	14	22	31	43	-	-	-	-	-	

*Assumed coefficient of discharge = 0.983, 0.983, 0.985, 0.9856.

Table B.3(b) Discharge Table for Smooth Nozzles — $\frac{1}{2}$ Inch Through 1 Inch — in Gallons per Minute (Nozzle Pressure Measured by Pitot Gauge)

Nozzle Pressure	1	lozz	<u>le Di:</u> (<u>in.)</u>	<u>amet</u>	<u>er</u>	Nozzle Pressure	Nozzle Diameter (<u>in.)*</u>			<u>er</u>	
(<u>psi</u>)	1 <u>/</u> 2	⁵ /8	³ /4	⁷ /8	1	(<u>psi</u>)	1 <u>/</u> 2	⁵ ⁄8	3/4	⁷ /8	<u>1</u>
5	16	26	37	50	66	62	58	90	132	177	233
6	18	28	41	55	72	64	59	92	134	180	237
7	19	30	44	59	78	66	60	93	136	182	240
8	21	32	47	64	84	68	60	95	138	185	244
9	22	34	50	67	89	70	61	96	140	188	247
10	23	36	53	71	93	72	62	97	142	191	251
12	25	40	58	78	102	74	63	99	144	193	254
14	27	43	63	84	110	76	64	100	146	196	258
16	29	46	67	90	118	78	65	101	148	198	261
18	31	49	71	95	125	80	66	103	150	201	264
20	33	51	75	101	132	82	66	104	152	204	268
22	34	54	79	105	139	84	67	105	154	206	271
24	36	56	82	110	145	86	68	107	155	208	274
26	37	59	85	115	151	88	69	108	157	211	277
28	39	61	89	119	157	90	70	109	159	213	280

Nozzle Pressure	1	Nozz	<u>le Di (in.)</u>	<u>amet</u>	er	Nozzle Pressure	Nozzle Diameter (<u>in.)*</u>					
(<u>psi</u>)	1/2	5 <u>⁄8</u>	³ /4	⁷ /8	<u>1</u>	(<u>psi</u>)	1/2	⁵ /8	³ /4	⁷ /8	<u>1</u>	
30	40	63	92	123	162	92	70	110	161	215	283	
32	41	65	95	127	167	94	71	111	162	218	286	
34	43	67	98	131	172	96	72	113	164	220	289	
36	44	69	100	135	177	98	73	114	166	223	292	
38	45	71	103	138	182	100	73	115	168	225	295	
40	46	73	106	142	187	105	75	118	172	230	303	
42	47	74	109	146	192	110	77	121	176	236	310	
44	49	76	111	149	196	115	79	123	180	241	317	
46	50	78	114	152	200	120	80	126	183	246	324	
48	51	80	116	156	205	125	82	129	187	251	331	
50	52	81	118	159	209	130	84	131	191	256	337	
52	53	83	121	162	213	135	85	134	195	262	343	
54	54	84	123	165	217	140	87	136	198	266	350	
56	55	86	125	168	221	145	88	139	202	271	356	
58	56	87	128	171	225	150	90	141	205	275	362	
60	57	89	130	174	229	-	-	-	-	-	-	

*Assumed coefficient of discharge = 0.985, 0.988, 0.988, 0.99.

Table B.3(c) Discharge Table for Smooth Nozzles — 1¹/₈ Inch Through 1⁵/₈ Inch — in Gallons per Minute (Nozzle Pressure Measured by Pitot Gauge)

Nozzla Prassura	N	lozzl	<u>e Dia</u> (<u>in.)*</u>	imete	<u>ər</u>	Nozzla Pressura	Nozzle Diameter (in.)*			<u>er</u>	
(<u>psi</u>)	<u>11/8</u>	<u>1¼</u>	<u>1³⁄</u> 8	<u>1½</u>	<u>15⁄</u> 8	(<u>psi</u>)	<u>11/8</u>	<u>1¼</u>	<u>1³⁄</u> 8	<u>11/2</u>	<u>15⁄8</u>
5	84	103	125	149	175	62	295	363	441	525	617
6	92	113	137	163	192	64	299	369	448	533	627
7	99	122	148	176	207	66	304	375	455	542	636
8	106	131	158	188	222	68	308	381	462	550	646
9	112	139	168	200	235	70	313	386	469	558	655
10	118	146	177	211	248	72	318	391	475	566	665
12	130	160	194	231	271	74	322	397	482	574	674
14	140	173	210	249	293	76	326	402	488	582	683
16	150	185	224	267	313	78	330	407	494	589	692
18	159	196	237	283	332	80	335	413	500	596	700
20	167	206	250	298	350	82	339	418	507	604	709
22	175	216	263	313	367	84	343	423	513	611	718
24	183	226	275	327	384	86	347	428	519	618	726
26	191	235	286	340	400	88	351	433	525	626	735
28	198	244	297	353	415	90	355	438	531	633	743
30	205	253	307	365	429	92	359	443	537	640	751
32	212	261	317	377	443	94	363	447	543	647	759

Nozzla Prossura	<u>N</u>	lozzl	<u>e Dia</u> (<u>in.)</u> *	<u>imet</u>	<u>er</u>	Nozzla Prossura	N	lozzl	<u>e Dia</u> (<u>in.)</u> *	imete	<u>ər</u>
(<u>psi</u>)	<u>11/8</u>	<u>1¼</u>	<u>1³⁄</u> 8	<u>1½</u>	<u>15⁄</u> 8	(<u>psi</u>)	<u>11/8</u>	<u>1¼</u>	<u>1¾</u>	<u>11/2</u>	<u>15⁄</u> 8
34	218	269	327	389	457	96	367	452	549	654	767
36	224	277	336	400	470	98	370	456	554	660	775
38	231	285	345	411	483	100	374	461	560	667	783
40	237	292	354	422	496	105	383	473	574	683	803
42	243	299	363	432	508	110	392	484	588	699	822
44	248	306	372	442	520	115	401	495	600	715	840
46	254	313	380	452	531	120	410	505	613	730	858
48	259	320	388	462	543	125	418	516	626	745	876
50	265	326	396	472	554	130	427	526	638	760	893
52	270	333	404	481	565	135	435	536	650	775	910
54	275	339	412	490	576	140	443	546	662	789	927
56	280	345	419	499	586	145	450	556	674	803	944
58	285	351	426	508	596	150	458	565	686	817	960
60	290	357	434	517	607	-	-	-	-	-	-

*Assumed coefficient of discharge = 0.99, 0.99, 0.993, 0.995, 0.995.

Table B.3(d) Discharge Table for Smooth Nozzles — $1\frac{3}{4}$ Inch Through $2\frac{1}{2}$ Inch — in psi (Nozzle Pressure Measured by Pitot Gauge)

Nozzla Pressure	Noz	zzle I	Diam	neter	(<u>in.)*</u>	Nozzlo Prossuro	No	zzle [Diame	eter (i	<u>n.)*</u>
(<u>psi</u>)	<u>1³/4</u>	<u>1</u> 7 <u>/</u> 8	<u>2</u>	<u>21/4</u>	<u>2</u> ¹ / ₂	(<u>psi</u>)	<u>1³⁄4</u>	<u>1</u> 7⁄/8	<u>2</u>	<u>2</u> ¹ / ₄	<u>2¹/2</u>
5	203	234	266	337	416	62	716	823	936	1187	1464
6	223	256	292	369	455	64	727	836	951	1206	1487
7	241	277	315	399	492	66	738	850	965	1224	1510
8	257	296	336	427	526	68	750	862	980	1242	1533
9	273	314	357	452	558	70	761	875	994	1260	1555
10	288	330	376	477	588	72	771	887	1008	1278	1577
12	315	362	412	522	644	74	782	900	1023	1296	1599
14	340	391	445	564	695	76	792	911	1036	1313	1620
16	364	418	475	603	744	78	803	924	1050	1330	1642
18	386	444	504	640	789	80	813	935	1063	1347	1663
20	407	468	532	674	831	82	823	946	1076	1364	1683
22	427	490	557	707	872	84	833	959	1089	1380	1704
24	446	512	582	739	911	86	843	970	1102	1396	1724
26	464	533	606	769	948	88	853	981	1115	1412	1744
28	481	554	629	799	984	90	862	992	1128	1429	1763
30	498	572	651	826	1018	92	872	1002	1140	1445	1783
32	514	591	673	854	1051	94	881	1012	1152	1460	1802
34	530	610	693	880	1084	96	890	1022	1164	1476	1821
36	546	627	713	905	1115	98	900	1032	1176	1491	1840
38	561	645	733	930	1146	100	909	1043	1189	1506	1859

Nozzlo Prossuro	No	zzle	Dian	neter	(<u>in.)*</u>	Nozzla Prossura	No	zzle [Diame	eter (i	<u>n.)*</u>	
(<u>psi</u>)	<u>1³⁄4</u>	<u>1</u> 7⁄/8	<u>2</u>	<u>21/4</u>	<u>2¹/2</u>	(<u>psi</u>)	<u>1³⁄</u> 4	<u>1</u> ⁷ /8	2	<u>21/4</u>	<u>2</u> ¹ / ₂	
40	575	661	752	954	1176	105	932	1070	1218	1542	1905	
42	589	678	770	978	1205	110	954	1095	1247	1579	1950	
44	603	694	788	1000	1233	115	975	1120	1275	1615	1993	
46	617	710	806	1021	1261	120	996	1144	1303	1649	2036	
48	630	725	824	1043	1288	125	1016	1168	1329	1683	2078	
50	643	740	841	1065	1314	130	1036	1191	1356	1717	2119	
52	656	754	857	1087	1340	135	1056	1213	1382	1750	2160	
54	668	769	873	1108	1366	140	1076	1235	1407	1780	2199	
56	680	782	889	1129	1391	145	1095	1257	1432	1812	2238	
58	692	796	905	1149	1416	150	1114	1279	1456	1843	2277	
60	704	810	920	1166	1440	-	-	-	-	-	_	

*Assumed coefficient of discharge = 0.995, 0.996, 0.997, 0.997, 0.997.

Table B.3(e) Nozzle Factors

Diameter of the Nozzle	Factors (F)					
(<u>in.</u>)	Freshwater	<u>Saltwater (Seawater)</u>				
2	119	117				
21⁄4	150	148				
2 ¹ /2	186	183				
2 ³ ⁄4	225	222				
3	267	264				
3 ¹ ⁄4	314	310				
31⁄2	364	359				
33⁄4	418	413				
4	476	470				
4¼	537	530				
4 ¹ / ₂	602	594				
4 ³ ⁄4	671	662				
5	743	734				
6	1070	1057				

Note: 1 mm = 0.03937 in.

Statement of Problem and Substantiation for Public Input

The arithmetic as defined is incorrect. 25.4 mm=1 inch, 6.895 kPa=1psi.

Submitter Information Verification

Submitter Full Name: Thomas StalnakerOrganization:Goshen Fire CompanyStreet Address:

City:	
State:	
Zip:	
Submittal Date:	Mon Nov 02 11:38:38 EST 2020
Committee:	FDA-AAA

Public Input N	lo. 156-NFPA 1910-2020 [Section No. D.1]
D1 General	
To maximize fire apparatus be eq	fighter capabilities and minimize risk of injuries, it is important that fire uipped with the latest safety features and operating capabilities.
In the last 10 to 7 and improving th include only a fer department appa standards. Becar have been truly s consider the valu first-line service.	15 years, much progress has been made in upgrading functional capabilities be safety features of fire apparatus. Apparatus more than 15 years old might w of the safety upgrades required by the recent editions of the NFPA fire aratus standards or the equivalent Underwriters Laboratories of Canada (ULC) use the changes, upgrades, and fine tuning to NFPA 1901/1906 (now 1900) significant, especially in the area of safety, fire departments should seriously use (or risk) to firefighters of keeping fire apparatus more than 15 years old in
It is recommende and that are still accordance with fire apparatus sta totally comply wi improvements an the firefighters w	ed that apparatus more than 15 years old that have been properly maintained in serviceable condition be placed in reserve status; be upgraded in NFPA 1912 1910; and incorporate as many features as possible of the current andard (<i>see Section D.3</i>). This will ensure that, while the apparatus might not th the current editions of the automotive fire apparatus standards, many of the nd upgrades required by the current editions of the standards are available to ho use the apparatus.
Apparatus that ware over 25 year	vere not manufactured to the applicable NFPA fire apparatus standards or that sold should be replaced.
Statement of Proble Update due to docu Reference 1901/190 Related Public Inpu	em and Substantiation for Public Input ment consolidation. 06 to make this annex universal so a second copy is not needed. uts for This Document
Public Input No. 15	Related Input Relationship 9-NEPA 1910-2020 [Chapter G] Image: Chapter G]
Submitter Informat	ion Verification
Submitter Full Nam	ne: Thomas Stalnaker
Organization:	Goshen Fire Company
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Submittal Date:	Wed Sep 09 13:31:13 EDT 2020
Committee:	FDA-AAA



Zip: Submittal Date: Committee:

Wed Sep 09 13:34:15 EDT 2020 FDA-AAA

es and fire chiefs should exercise special care when evaluating the org an apparatus versus the cost of a new fire apparatus. Apparatus omply with the requirements of NFPA 1912 chapters 27 through 29 cost-benefit analysis of the value of upgrading or refurbishing a lucted. In many instances, it will be found that refurbishing costs t value of similar apparatus. evaluate when determining whether to refurbish or replace a fire of the existing apparatus? Has it been in a major accident, or has d to it that would make spending significant money on it ill esign, safety, and technology have improved the efficiency and us meet the program needs of the area it is serving? Is it designed tment operates today and is expected to operate in the
evaluate when determining whether to refurbish or replace a fire ag: n of the existing apparatus? Has it been in a major accident, or has d to it that would make spending significant money on it ill esign, safety, and technology have improved the efficiency and us meet the program needs of the area it is serving? Is it designed tment operates today and is expected to operate in the
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esign, safety, and technology have improved the efficiency and us meet the program needs of the area it is serving? Is it designed tment operates today and is expected to operate in the
us meet the program needs of the area it is serving? Is it designed tment operates today and is expected to operate in the
he apparatus functionally obsolete? Can it carry everything that is nout being overloaded?
shed, will it provide the level of safety and operational capability of should be kept in mind that in many cases, refurbishing does not VR, so it is not possible to add a larger water tank or additional arry massive amounts of additional equipment. Enclosing ight add enough weight to the chassis that existing equipment d to avoid overloading the chassis.
ost per year to operate the apparatus if it were refurbished? What be for a new apparatus? Insurance costs, downtime costs, eciation, reliability, and the safety of the users and the public all t what rate are those costs rising each year? Are parts still readily onents on the apparatus? A refurbished 15-year-old apparatus stil t. How long could the fire department operate without the leeded major repairs?
value that will be gone tomorrow?

Zip: Submittal Date: Committee:

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Fire apparatus refurbishing can range from simple cosmetic-type restorations to complete Level I refurbishing. Therefore, the amount of information that the contractor and purchaser require can vary greatly. Depending on the scope of the proposed work, consideration should be given to the details discussed in some or all of the following paragraphs. It is recommended that the form in Figure E.1 be used to identify the information needed to properly develop specifications for those portions of the fire apparatus that are to be modified or upgraded during the refurbishing.

The local fire chief and fire department staff know the conditions under which the apparatus will be used. However, competent advice should also be obtained from knowledgeable and informed sources such as other experienced fire service personnel, trade journals, training instructors, maintenance personnel, and fire equipment and component manufacturers. The fire insurance rating authority should also be consulted.

The study should look not only at current operations and risks protected but also at how these might change over the life of the fire apparatus.

Figure E.1 Specification Form for Fire Apparatus Refurbishing.

APPARATUS REFURBISHING S	PECIFICATION FORM
For any items that are to be added or upgraded, provide as much d the desired components and workmanship. Add additional sheets a NFPA 1901, <i>Standard for Automotice Apparatus</i> , or NFPA 1906, <i>St</i> might need to be specified for new or significantly upgraded system	tail as needed to allow the refurbisher to provide s necessary. Consult the appropriate sections of andard for Wildland Fire Apparatus, for details that 8.
PROCUREMENT ISSUES	
This is a request for Bid Proposal	
Date of bid/proposal opening:	
Purchaser's name and address:	
Contact name and telephone number:	
Sealed bid envelope information, address, and identification marking	ng:
The bidder is to honor the bid price for days.	
When will the apparatus be available to start the refurbishment?	
How will the apparatus be delivered to the refurbisher?	
If an interim inspection trip(s) to the refurbishing plant is to be pro-	vided, indicate:
Number of trips: Number of participants:	Who will pay expenses?
How many parts, service, and operation manuals are to be provided	?
□ Complete or □ Partial manuals required.	
Where is the delivery of the refurbished apparatus to occur?	
Where and when is the acceptance to occur?	
Is operation and service instruction and demonstration required?	Where?
For persons for days.	
Specify the details of any special payment plan or schedule require	i:
Is an approval drawing required? 🛛 Yes 🗔 No	
Is a bid bond required? 🗅 Yes 🗅 No What percent of bid price?	
Is a performance bond required? □ Yes □ No What percent of	oid price?
If an extended warranty on specific components is required, indicat	e which components and the length of the warranty:
Is a warranty bond required? □ Yes □ No In what amount?	
GENERAL REQUIREMENTS	
What are the maximum allowable dimensions of the apparatus?	
Overall height in in. (mm): (measured at t	he highest projection)
Overall length in in. (mm): (measured at t	he front and rearmost projections)
Wheelbase in in. (mm): (only if it is to	change)
Width in in. (mm): (measured at t	he outside of the mirrors)
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Marrison	o woish t	the frent	in lb (kg):	(n=1)E:4: 10	foront from current front C (112D)
Maximun	n weight or n weight or	1 the front axle 2 the rear axle i	in lb (kg):	(only if it is dif	ferent from current front GAWR)
What is t	he maximu	im wall-to-wall	turning radius a	llowable?	. ft (m)
Maximum e ⁱ	levation at	which the appa	aratus will operat	te if over 2000 ft (600 m):	
Maximum g	rade that t	he apparatus w	ill climb if over 6	6 percent (across 20 percen	t, up/down 25 percent, stationary
10 percent g	rades for w	rildland fire app	paratus):	h the apparature in the	(0E) /003
specify the i	ninimum a navimum a	imblent alr tem ambient air tem	perature in whic perature in whic	n the apparatus is to opera	ate: (°F)(°C)
Specify the r	apparatus 1	road performan	ce if it is to excee	ed the minimum specified i	n this standard:
Specify max	imum road	speed required	l (only if upgradi	ng engine, transmission, di	rive axle, or tires):
Specify the r	naximum ı	number of perso	ons to ride on the	apparatus:	
Hose Threa	d Size Info	ormation (requ	ired if changing	g or upgrading intakes o	r discharges)
TPI × OD	or size an	d type (e.g., 2!	½ in. NH or 4 in	. Storz)	
1 in. =				1½ in. =	
2 m. =				252 in. =	
4 in. =				4½ in. =	
5 in. =				6 in. =	
Hydrant =					
Testing and	Acceptar	nce			
If independe	nt certifica	tion of tests is :	required for the	pump system, aerial device	, line-voltage power source, or other
systems, wh	at indepen	dent testing org	ganization is to co	ertify the tests?	
ls anyone re	presenting	the purchaser	to witness the re	furbisher's pre-delivery tes	sts? 🗆 Yes 🗅 No
If yes, wh	0?		10		
where are the	ne road tes	ts to be conduct	iea?	n doliuom?	
mat tests v	viii uie con	actor be requ	nea to perform o	n delivery:	
APPARATU	JS TYPE				
This appara	tus is to be r	used as a(n):		□ Wildland mobile	ater supply fire apparatue
□ Initial	attack app	aratus		U Wildland fire crew	carrier apparatus
🗅 Mobil v	vater suppl	ly apparatus			
Aerial f	fire appara	tus			
u Quint f	ne apparat service an	us paratus			
D Mobil f	oam fire ap	paratus			
🗅 Wildlar	nd fire supp	pression appara	itus		
D 2015 National	Fire Protection	Association			the second se
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APPARATUS REFURBISHING SPECIFICATION FORM (continued)

Equipment Carried on Apparatus Miscellaneous equipment allowance if it exceeds the standard's minimum weight: ______ lb (kg)

Attach a list of equipment and tools to be supplied by the contractor with the apparatus, stating the item, quantity, where it is to be mounted or carried, the weight of each item, and its dimensions $(L \times W \times D)$. Attach a list of equipment and tools to be supplied by the fire department to be carried on the apparatus, stating the item, quantity, where it is to be mounted or carried, contractor's responsibility for mounting, the weight of each item, and its dimension $(L \times W \times D)$. Attach a list of equipment and tools that might be carried on the apparatus in the future, stating the item, quantity, the desired mounting location or compartment where it is likely to be carried, the weight of each item, and its dimensions $(L \times W \times D)$.

unrensions (L × N \sim L). Attach a list of reade equipment and permanent components required on the apparatus, stating the item, quantity, where it is to be mounted or carried, the weight of each item, and its dimensions (L × W × D). If additional compartment space is required in addition to what is necessary to store the equipment on the attached four lists, indicate space requirements.

CHASSIS AND VEHICLE COMPONENTS

Engine:	No change	Inspect	Replace	Upgrade .	
Transmission:	No change	Inspect	Replace	Upgrade .	
Traction control system:	No change	Inspect	Replace	Upgrade	Add new
Antilock braking system:	No change	🗅 Inspect	Replace	Upgrade	Add new
Drive shaft(s):	No change	Inspect	Replace	Upgrade .	
Front axle:	No change	Inspect	Replace	Upgrade .	
Rear axle:	No change	Inspect	Replace	Upgrade .	
Braking system:	No change	□ Inspect	Replace	Upgrade .	
Auxiliary braking system:	No change	Inspect	Replace	Upgrade	Add new
Parking brakes:	No change	Inspect	Replace	Upgrade .	
Suspension:	No change	\Box Inspect	Replace	Upgrade .	
Wheels:	No change	□ Inspect	Replace	Upgrade .	
Tires:	No change	Inspect	Replace	Upgrade .	
Cooling system:	No change	Inspect	Replace	Upgrade .	
Engine speed control:	No change	\Box Inspect	Replace	Upgrade .	
Lubrication system:	No change	\Box Inspect	Replace	Upgrade .	
Air intake system:	No change	\Box Inspect	Replace	Upgrade .	
Fuel system:	No change	Inspect	Replace	Upgrade	
Fuel tank:	No change	\Box Inspect	Replace	Upgrade .	
Exhaust system:	No change	\Box Inspect	Replace	Upgrade .	
Steering:	No change	\Box Inspect	Replace	Upgrade .	
Tow hooks/eyes:	No change	Inspect	Replace	🛛 Upgrade	Add new
Automatic tire chains:	No change	\Box Inspect	Replace	🗅 Upgrade	Add new
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APPARATUS REFURBISHING SPECIFICATION FORM (continued)

Provide details required on components to be added or upgraded:

Provide details on any other above:	specific items	to be repaire	d, replaced, ı	រpgraded, or ៖	dded in addition to the	items specified
Are rear fender liners requi	red?					
Specify whether the appara	tus is designed	to operate o	ff paved road	ls:		
Specify whether an increase	d angle of appr	roach is requ	ired:			
Specify whether an increase	d angle of depa	arture is req	uired:			
Specify whether a specific ra	amp breakover	angle is req	uired:			
LOW-VOLTAGE ELECTR	ICAL SYSTEM	IS AND W	ARNING DE	VICES		
Alternator:	D No change	linspect	D Replace	D Upgrade		
Anternator wiring.	D No change	C Inspect	D Barlace	D Upgrade		
Datteries:	a No change	G Inspect	C Replace	G Upgrade		
Battery wiring.	D No change	D Inspect	D Replace	D Upgrade		
Starter.	D No change	Inspect	D Barlace	D Upgrade		
Starter wiring.	D No change	G Inspect	D Deplace	D Upgrade		
Chassis wiring namess:	D No change	C Inspect	D Barlace	D Upgrade		
bouy wiring narness.	D No change	D Inspect	D Barlass	D Upgrade	D Add areas	
Loau manager.	D No change		D Roplace		Add new	
Wowning lights	D No change		D Replace	D Ungrade	Add new	
Warning rights. Hoadlighte	D No change	Inspect	D Replace	D Ungrade	a Aud new	
Pton toillighte:	D No change		D Replace	D Ungrade		
Stop, tamignts. Dum signal lights:	D No change		D Replace	D Ungrade		
Cab handlights or mounted adjustable spotlights:	□ No change	□ Inspect	Replace	Upgrade	Add new	
Traffic horn:	D No change	□ Inspect	C Replace	Upgrade		
Air horns:	No change	□ Inspect	Replace	Upgrade	Add new	
Siren(s):	No change	□ Inspect	Replace	Upgrade	Add new	
Ground lighting:	No change	□ Inspect	Replace	Upgrade	Add new	
Hose bed lighting:	No change	□ Inspect	Replace	Upgrade	Add new	
Surface lighting:	No change	Inspect	Replace	Upgrade	Add new	
last and a limbulation of	D No change	□ Inspect	D Replace	D Ungrade	□ Add new	
interior lighting:	a no change	- mapeee	- nepinee			

Bookup alower	U No change	□ Inspect	G Replace	Upgrade	⊔ Add new	
Dackup alarm: Battery charger/conditionor	INO change	□ Inspect	Replace	Upgrade	Add new	
Provide details required on	components to	be added or	ungraded.			
Trovide details required on	components to	be added of	upgraueu			
Provide details on any other	enocific itoms	to ho renaire	d raplaced a	manadad or :	ddad in additio	n to the items enerified
above:	specific items	to be repaire	a, replacea, a	ipgraded, or a	uueu in auurut	n to the items specified
Specify any electrical loads l	beyond those de	fined in the	standard tha	it are to be pa	rt of the minim	um continuous electrical
load:				10.10		
If a load management syste	m is being repl	aced, upgrad	ied, or added	, specify the s	equence of load	shedding:
Warning Lights To Be Upg	graded or Add	ed				
Location	-		Make a	nd Model		Color
Upper level, forward-facing Upper level, side-facing, fr	ont					
Upper level, side-facing, m	idship					
Upper level, side-facing, re	ar					
Upper level, rear-facing						
Lower level, forward-facing	g					
Lower level, side-facing, fr	ont					
Lower level, side-facing, m	idship					
Lower level, side-facing, re	ar					
Lower level, rear-tacing						
DRIVING AND CREW CC	MPARTMEN	rs				
Cab:	No change	□ Inspect	Replace	Upgrade		
Doors:	D No change	□ Inspect	□ Replace	Upgrade		
Personnel enclosure:	No change	Inspect	C Replace	🛛 Upgrade	🗅 Add new	
Seat belts:	No change	\Box Inspect	Replace	Upgrade		
Seats:	No change	Inspect	Replace	Upgrade	□ Add new	
SCBA mounting:	No change	Inspect	Replace	Upgrade	□ Add new	
Equipment mounting:	No change	Inspect	Replace	Upgrade		
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© 2015 National Fire Protection Assoc APPAF Cab tilt: Mismones	ATUS REFU	JRBISHIN	G SPECIF	CATION F	ORM <i>(contir</i>	NFPA 1912 (p. 6 of 15)
© 2015 National Fire Protection Assoc APPAF Cab tilt: Mirrors: Rear view camera system:	ATUS REFU	JRBISHIN Inspect Inspect Inspect	G SPECIF	CATION F		NFPA 1912 (p. 6 of 15)
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 Image: Comparent State Provide details required on components to be added or upgraded: Provide details on any other specific items to be repaired, replaced, upgraded, or added in addition to the items specified above © 2015 National Fire Protection Associatio NFPA 1912 (p. 15 of 15) [ADD THE FOLLOWING TO THE END OF FIGURE E.1] **ULTRA-HIGH PRESSURE FIRE PUMP**

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Sub	omitter Informatio	on Verification
	Submitter Full Name	: Thomas Stalnaker
	Organization:	Goshen Fire Company
	Street Address:	
	City:	
	State:	
	Zip:	
	Submittal Date:	Mon Nov 02 13:27:20 EST 2020
	Committee:	FDA-AAA



F.1

The Fire Apparatus Manufacturers Association (FAMA) provides the worksheet for use by the purchaser in calculating the portable equipment load anticipated to be carried on the apparatus. To ensure that the apparatus chassis is capable of carrying the installed equipment (pump, tank, aerial device, etc.) plus the specified portable equipment load with an appropriate margin of safety, the purchaser should use this worksheet to provide apparatus vendors with the weight of the equipment they anticipate carrying when the apparatus is placed in service. [1901 1900 :C \underline{F} .1]

F.1.1

The approximate measurements and weights of equipment that are commonly available and used during fire department operations are listed on the worksheet. The purchaser should fill in the number of units of each piece of anticipated equipment in the column titled "Quantity" and multiply that by the weight per unit to get the total weight. The dimensions of each piece of equipment are given to assist in planning compartment size or the location on the fire apparatus. Where the purchaser wants to carry specific equipment in a specific compartment, that compartment designation should be shown in the column titled "Compartment Location." [1901 1900 :C F .1.1]

F.1.2

The worksheet can be downloaded as an Excel spreadsheet from the FAMA website, *www.fama.org*, and customized to show only the equipment a department expects to carry. There are additional columns on the spreadsheet to assist the fire department in maintaining records of the equipment it carries on the apparatus. [**1901 1900 :** $G \ge 1.2$]

Statement of Problem and Substantiation for Public Input

Update cross references. Note that these may change again as the first draft of NFPA 1900 is prepared.

Submitter Information Verification

Submitter Full Name:	Thomas Stalnaker
Organization:	Goshen Fire Company
Street Address:	
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Zip:	
Submittal Date:	Mon Nov 02 13:59:38 EST 2020
Committee:	FDA-AAA

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Public Input No. 159-NFPA 1910-2020 [Chapter G]

Annex G - Guidelines for First Line and Reserve Apparatus (NFPA 1912)

This annex is not a part of the requirements of this NFPA document but is included for informational purposes only.

G.1 - General.

To maximize firefighter capabilities and minimize risk of injuries, it is important that fire apparatus be equipped with the latest safety features and operating capabilities. In the last 10 to 15 years, much progress has been made in upgrading functional capabilities and improving the safety features of fire apparatus. Apparatus more than 15 years old might include only a few of the safety upgrades required by the 1991 and subsequent editions of the NFPA fire department apparatus standards or the equivalent Underwriters' Laboratories of Canada (ULC) standards. Because the changes, upgrades, and fine tuning to NFPA 1901 since 1991 have been truly significant, especially in the area of safety, fire departments should seriously consider the value (or risk) to firefighters by keeping fire apparatus more than 15 years old in first-line service.

It is recommended that apparatus more than 15 years old that have been properly maintained and that are still in serviceable condition be placed in reserve status, be upgraded in accordance with NFPA 1912, and incorporate as many features as possible of the current fire apparatus standard (see Section D.3). This will ensure that, while the apparatus might not totally comply with the current editions of the automotive fire apparatus standards, many of the improvements and upgrades required by the current editions of the standards are available for the firefighters who use the apparatus.

Apparatus that were not manufactured to the applicable NFPA fire apparatus standards or that are over 25 years old should be replaced.

G.2 – Evaluating Fire Apparatus.

It is a generally accepted fact that fire apparatus, like all types of mechanical devices, have a finite life. The length of that life depends on many factors, including vehicle mileage and engine hours, quality of the preventative maintenance program, quality of the driver training program, whether the fire apparatus was used within the design parameters, whether the apparatus was manufactured on a custom or commercial chassis, quality of workmanship by the original manufacturer, quality of the components used, and availability of replacement parts, to name a few.

In the fire service, there are fire apparatus with 8 to 10 years of service that are simply worn out. There are also fire apparatus that were manufactured with quality components, that have had excellent maintenance, and that have responded to a minimum number of incidents that are still in serviceable condition after 20 years. Most would agree that the care of fire apparatus while it is being used and the quality and timeliness of maintenance are perhaps the most significant factors in determining how well a fire apparatus ages.

Critical enhancements in design, safety, and technology should also play a key role in the evaluation of an apparatus' life cycle. Previous editions of the fire department apparatus standards featured many requirements advancing the level of automotive fire apparatus safety and friendliness. Contained within the 2009 edition were requirements for rollover stability; tire pressure indicators; seat belt warning systems requiring all occupants be properly seated and belted; extended seat belt length requirements resulting from an in-depth anthropometric study evaluating the average size of today's fully dressed firefighter; roadability, including minimum accelerations and top speed limitations; enhanced step and work surface lighting; cab integrity testing; increased use of retroreflective striping in the rear of the apparatus, providing a consistent identifiable set of markings for all automotive fire apparatus; and enhanced aerial control technologies, enabling short jacking and envelope controls.

G.3 – Upgrading Fire Apparatus.

Any apparatus, whether in first-line or reserve service, should be upgraded in accordance with NFPA 1912, as necessary to ensure that the following features are included at a minimum:

- (1) Seat belts with seat belt warning systems are available for every seat and are new or in serviceable condition.
- (2) Warning lights meet or exceed the current standard.
- (3) Reflective striping meets or exceeds the current standard.
- (4) Slip resistance of walking surfaces and handrails meets the current standard.
- (5) A low-voltage electrical system load manager is installed if the total connected load exceeds the alternator output.
- (6) The alternator output is capable of meeting the total continuous load on the low-voltage electrical system.
- (7) Where the gross vehicle weight rating (GVWR) is 36,000 lb (16,000 kg) or more, an auxiliary braking system is installed and operating correctly.
- (8) Ground and step lighting meets or exceeds the current standard.
- (9) Noise levels in the driving and crew compartment(s) meet the current standard, or appropriate hearing protection is provided.
- (10) All horns and sirens are relocated to a position as low and as far forward as possible.
- (11) Sign plates are present stating no riding on open areas.
- (12) A pump shift indicator system is present and working properly for vehicles equipped with an automatic chassis transmission.
- (13) For vehicles equipped with electronic or electric engine throttle controls, an interlock system is present and working properly to prevent engine speed advancement at the operator's panel, unless the chassis transmission is in neutral with the parking brake engaged, or the parking brake is engaged, the fire pump is engaged, and the chassis transmission is in pumping gear.
- (14) All loose equipment in the driving and crew areas is securely mounted in accordance with the current standard.

G.4 - Proper Maintenance of Fire Apparatus.

In addition to needed upgrades to older fire apparatus, it is imperative that all fire apparatus be checked and maintained regularly to ensure that they will be reliable and safe to use. The manufacturers' instructions should always be followed when maintaining the fire apparatus. Special attention should be paid to ensure that the following conditions, which are particularly critical to maintaining a reliable unit, exist:

- (1) Engine belts, fuel lines, and filters have been replaced in accordance with the manufacturers' maintenance schedule(s).
- (2) Brakes, brake lines, and wheel seals have been replaced or serviced in accordance with the manufacturers' maintenance schedule.
- (3) Tires and suspension are in serviceable condition, and tires are not more than 7 years old.
- (4) The radiator has been serviced in accordance with the manufacturers' maintenance schedule, and all cooling system hoses are new or in serviceable condition.
- (5) The alternator output meets its rating.
- (6) A complete weight analysis shows the fire apparatus is not over individual axle or total GVWR.
- (7) The fire pump meets or exceeds its original pump rating.
- (8) Water tank and baffles are not corroded or distorted.
- (9) If the apparatus is equipped with an aerial device, a complete test to original specifications has been conducted and certified by a certified testing laboratory.
- (10) If so equipped, the generator and line-voltage accessories have been tested and meet the current standard.

G.5 - Refurbishing or Replacing Fire Apparatus.

Fire department administrators and fire chiefs should exercise special care when evaluating the cost of refurbishing or updating an apparatus versus the cost of a new fire apparatus. Apparatus that are refurbished should comply with the requirements of NFPA 1912. A thorough cost-benefit analysis of the value of upgrading or refurbishing a fire apparatus should be conducted. In many instances, it will be found that refurbishing costs will greatly exceed the current value of similar apparatus.

Some of the factors to evaluate when determining whether to refurbish or replace a fire apparatus include the following:

- (1) What is the true condition of the existing apparatus? Has it been in a major accident, or has something else happened to it that would make spending significant money on it ill advised?
- (2) What advancements in design, safety, and technology have improved the efficiency and safety of personnel?
- (3) Does the current apparatus meet the program needs of the area it is serving? Is it designed for the way the fire department operates today and is expected to operate in the foreseeable future, or is it functionally obsolete? Can it carry everything that is needed to do the job without being overloaded?
- (4) If the apparatus is refurbished, will it provide the level of safety and operational capability of a new fire apparatus? It should be kept in mind that in many cases, refurbishing does not mean increasing the GVWR, so it is not possible to add a larger water tank or additional foam agent tanks, or to plan to carry massive amounts of additional equipment. Enclosing personnel riding areas might add enough weight to the chassis that existing equipment loads need to be reduced to avoid overloading the chassis.
- (5) What is the anticipated cost per year to operate the apparatus if it were refurbished? What would the cost per year be for a new apparatus? Insurance costs, downtime costs, maintenance costs, depreciation, reliability, and the safety of the users and the public all have to be considered. At what rate are those costs rising each year? Are parts still readily available for all the components on the apparatus? A refurbished 15-year-old apparatus still has 15-year-old parts in it. How long can the fire department operate without the apparatus if it suddenly needed major repairs?
- (6) Is there a current trade-in value that will not be there tomorrow? Most apparatus over 12 years old have little trade-in value. Are there creative financing plans or leasing options that can provide a new fire apparatus for little more than the cost of refurbishing or maintaining an older apparatus?

G.6 - Conclusion.

A fire apparatus is an emergency vehicle that must be relied on to transport firefighters safely to and from an incident and to operate reliably and properly to support the mission of the fire department. A piece of fire apparatus that breaks down at any time during an emergency operation not only compromises the success of the operation but might jeopardize the safety of the firefighters relying on that apparatus to support their role in the operation. An old, worn out, or poorly maintained fire apparatus has no role in providing emergency services to a community.

[UPDATE 1.3 TO POINT TO ANNEX D INSTEAD OF ANNEX G.]

Statement of Problem and Substantiation for Public Input

Annex G is a duplicate of Annex D. By changing the reference in 1.3(2) from G to D, this duplicate annex can be removed.

Related Public Inputs for This Document

	Related Input	<u>Relationship</u>
Public Input No. 235	-NFPA 1910-2020 [Section No. 1.3]	
Public Input No. 156	-NFPA 1910-2020 [Section No. D.1]	
Public Input No. 235	-NFPA 1910-2020 [Section No. 1.3]	
Submitter Information	on Verification	
Submitter Full Name	e: Thomas Stalnaker	
Organization:	Goshen Fire Company	
Affiliation:	Admin Task Group	
Street Address:		
City:		
State:		
Zip:		
Submittal Date:	Thu Sep 10 16:10:39 EDT 2020	
Committee:	FDA-AAA	



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	Submitter Full Name	: Thomas Stalnaker
	Organization:	Goshen Fire Company
	Street Address:	
	City:	
	State:	
	Zip:	
	Submittal Date:	Fri Oct 30 15:16:57 EDT 2020
	Committee:	FDA-AAA

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M.1.1 NFPA Put	
	plications.
National Fire Pro	tection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.
NFPA 11, Standa	rd for Low-, Medium-, and High-Expansion Foam, 2016 2021 edition.
NFPA 70 [®] , Natio	nal Electrical Code [®] , 2020 edition.
NFPA 70B, Reco	<i>mmended Practice for Electrical Equipment Maintenance</i> , 2019 <u>2023</u> editior
NFPA 70E [®] , Sta	ndard for Electrical Safety in the Workplace [®] , 2018 -2021 edition.
NFPA 1001, Star	dard for Fire Fighter Professional Qualifications, 2013-2019_edition.
NFPA 1002, Star edition.	dard for Fire Apparatus Driver/Operator Professional Qualifications, 2017
NFPA 1035, Star Firesetter Interve	ndard for Fire and Life Safety Educator, Public Information Officer, Youth ntion Specialist, and Youth Firesetter Program Manager, 2015 edition.
NFPA 1150, Stan	dard on Foam Chemicals for Fires in Class A Fuels, 2017 2022 edition.
NFPA 1901 <u>Apparatus</u> , 2016 edition.NFPA 191 Service Emergen	, <u>Standard for</u> <u>Aircraft Rescue and Firefighting Vehicles</u> , <u>Automotive Fire</u> edition.NFPA 1906, <u>Standard for</u> <u>Wildland Fire Apparatus</u> , 2016 1, <u>Standard for the Inspection</u> , <u>Maintenance</u> , <u>Testing</u> , <u>and</u> <u>Retirement of In-</u> icy Vehicles, 2017 edition.
NFPA 1912, Star	ndard for Fire Apparatus Refurbishing , 2016 edition.
NFPA 1917, Star	idard for <u>Automotive Ambulances</u> , 2016- <u>2023</u> edition.
<u>NFPA 1961, Sta</u>	<u>ndard on Fire Hose , 2013-2020 edition.</u>
NFPA 1962, Star Hose, Couplings,	ndard for the Care, Use, Inspection, Service Testing, and Replacement of Fire Nozzles, and Fire Hose Appliances, 2013 - <u>2023</u> edition.
NFPA 1989, <i>Star</i> 2019 edition.	ndard on Breathing Air Quality for Emergency Services Respiratory Protection
tement of Proble Update due to docur Update document ec	em and Substantiation for Public Input nent consolidation. dition dates.
mitter Informati	on Verification
Submitter Full Nam	e: Thomas Stalnaker
Organization:	Goshen Fire Company
Affiliation:	Admin Task Group
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Sep 10 18:21:06 EDT 2020



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M.2.1 ABYC P	ublications.
American Boat	and Yacht Council, 613 Third Street, Suite 10, Annapolis, MD 21403.
ABYC H-28, Inf	latable Boats, July 2010 <u>2016</u> .
ABYC H-41, La	dders, Handholds and Rails,-2009 _2014 .
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M.3 Reference	s for Extracts in Informational Sections.
NFPA 11, Stand	ard for Low-, Medium-, and High-Expansion Foam, 2016-2021 edition.
NFPA 302, <i>Fire</i> edition.	Protection Standard for Pleasure and Commercial Motor Craft, 2015-2020
NFPA <u>1901</u> <u>190</u> Apparatus, 2016	0 , <i>Standard for <u>Aircraft Rescue and Firefighting Vehicles</u>, <u>Automotive Fire</u> - <u>Wildland Fire Apparatus, and Automotive Ambulances, 2023</u> edition.</i>
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