ormation Verification
III Name: [ Not Specified ]
I: [Not Specified]
ss:
te: Thu Oct 17 08:32:54 EDT 2013
atement
Critical care ambulance services carry medical gasses in addition to oxygen As worded the current language suggests it would be prohibited for those other gasses to be stored in the oxygen compartment when that is not the case. The term oxygen is limiting. The replacement of the tem oxygen with medical gas will allow EMS operations to function in the manner they are authorized to by applicable State laws and regulations.
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FPA	n No. 187-NFPA 1917-2013 [ Section No. 1.3.1 ]
	hall apply to new ambulances that are contracted for on or after
January 1, <del>201</del> 3	<u>≩ 2016</u> .
ubmitter Informat	tion Verification
	tion vermeation
Submitter Full Na	me: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Dec 17 17:13:16 EST 2013
committee Statem	ent
Committee Statement:	The committee has made this change to update the effective date on the document.
Response Message:	



Avenue, NW, Su	Publications. ufacturers Equipment Compliance Agency, 1025 Connecticut ite # 1012, Washington, DC 20036 <u>, www.ameca.org</u> . ance Handbook for GSA and SAE Warning Lamp Systems,
omitter Informati	
Submitter Full Nam Organization:	ne: [ Not Specified ]
Submitter Full Nam Organization: Street Address: City:	ne: [ Not Specified ]
Submitter Full Nam Organization: Street Address:	ne: [ Not Specified ]



2.3.6 SAE	Publications.
Society of A 15096, www	utomotive Engineers, 400 Commonwealth Drive, Warrendale, PA .sae.org.
SAE J156, <i>F</i>	Fusible Links <del>, 2005</del>
	, Performance Levels and Methods of Measurement of Electromagneti y of Vehicles, Boats (up to 15 m), and Machines (16.6 Hz to 18 GHz) <del>,</del>
SAE J553, 0	Circuit Breakers, 2004.
SAE J554, <i>E</i>	Electric Fuses (Cartridge Type) <del>, 1987</del> <u>2010</u> .
	Fest Methods and Equipment for Lighting Devices and Components for Icles Less Than 2032 mm in Overall Width, <u>2007</u> <u>2010</u> .
	Plastic Material or Materials for Use in Optical Parts Such as Lenses Reflectors of Motor Vehicle Lighting Devices, 2010.
SAE J578, 0	Color Specification, 2006.
	Directional Flashing Optical Warning Devices for Authorized Maintenance, and Service Vehicles, 2005.
	Fire Chain Clearance — Trucks, Buses (Except Suburban, Intercity, an es), and Combinations of Vehicles, 1985.
	Curbstone Clearance, Approach, Departure, and Ramp <del>Break</del> ver Angles, 2009.
SAE J845, 0 Service Veh	Optical Warning Devices for Authorized Emergency, Maintenance, and icles, 2007.
SAE J994, A <del>2003</del> <u>2009</u> .	Narm — Backup — Electric <del>,</del> Laboratory Performance Testing,
SAE J1127,	Low Voltage Battery Cable, <del>2005</del> <u>2010</u> .
SAE J1128,	Low Voltage Primary Cable, <del>2005</del> <u>2011</u> .
SAE J1292, 1981.	Automobile, Truck, Truck-Tractor, Trailer, and Motor Coach Wiring,
	Gaseous Discharge Warning Lamp <del>-for Authorized Emergency,</del> <del>9, and Service Vehicles , 1998</del> <u>, 2009</u> .
SAE J1330,	Photometry Laboratory Accuracy Guidelines, 2007.
	Flashers , 1996.
SAE J1849,	Emergency Vehicle Sirens, 2008.
	High Current Time Lag Electric Fuses, 1990.
	<i>L.E.D. Signal and Marking Lighting Devices</i> , <del>2005</del> <u>2011</u> .
	Miniature Blade Type Electrical Fuses, 1990.
	Heavy Duty Wiring Systems for On-Highway Trucks , 2004.
	COE Frontal Strength Evaluation — Dynamic Loading Heavy Trucks,

Response Message:	
Committee Statement:	The committee has incorporated these documents into the requirements of the standard based on keeping chapter 9 within the document.
ommittee State	ment
Submittal Date:	Tue Oct 22 09:26:23 EDT 2013
Zip:	
State:	
City:	
Street Address:	
Organization:	[ Not Specified ]
Submitter Full N	lame: [ Not Specified ]
ubmitter Inform	ation Verification
<u>SAE J3027,</u>	Ambulance Litter Integrity, Retention, and Patient Restraint , 2014.
<u>SAE J3026.</u> <u>Restraint</u> , 20	Ambulance Patient Compartment Seating Integrity and Occupant 014.
	Occupant Restraint and Equipment Mounting Integrity Frontal m Level Ambulance Patient Compartment , 2010.
2003.	Cab Roof Strength Evaluation — Quasi-Static Loading Heavy Trucks,

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First Revisior	No. 160-NFPA 1917-2013 [ Section No. 2.3.7 ]
FPA	
2.3.7 UL Public Underwriters La www.ul.com.	cations. boratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096,
ANSI/UL 153, S <del>2010</del> revised 20	<i>tandard for Portable Electric Luminaires</i> , 2002, <del>Revised</del> <u>13</u> .
ANSI/UL 498, S <del>Revised 2010</del> <u>re</u>	<i>tandard for Safety Attachment Plugs and Receptacles</i> , <del>2001</del> <u>2012</u> , <u>evised 2013</u> .
ANSI/UL 969, S 2008.	<i>tandard for Marking and Labeling Systems,</i> 1995, <del>Revised</del> <u>revised</u>
ANSI/UL 1598,	Luminaires, 2008, <del>Revised 2010</del> revised 2011 .
	Standard for Safety, Single and Multiple Station Carbon Monoxide <del>levised</del> <u>revised</u> 2009.
ubmitter Informat	
Submitter Full Nan	
Organization:	[Not Specified ]
Street Address:	
City:	
State:	
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Zip: Submittal Date:	Wed Nov 13 12:29:28 EST 2013
Zip: Submittal Date:	Wed Nov 13 12:29:28 EST 2013
Submittal Date:	

in.

	S. Government Publications. ernment Printing Office, Washington, DC 20402, www.gpo.gov.
Title 49, 0 <del>Safety Sta equipmer trailers, (c</del>	Code of Federal Regulations, Part 571, Subpart B, "Federal Motor Vehicle andards" (FMVSS), No. 108, "Lamps, reflective devices, and associated at passenger cars, multipurpose passenger vehicles, trucks, busses, except pole trailers and trailer converter dollies), and motorcycles." Federal hicle Safety Standards (FMVSS).
	Code of Federal Regulations, Part 571, Subpart B, "Federal Motor Vehicle andards" (FMVSS), No. 202, "Head restraints for passenger vehicles."
Safety St	Code of Federal Regulations, Part 571, Subpart B, "Federal Motor Vehicle andards" (FMVSS), No. 206, "Door locks and door retention components ger cars, multipurpose passenger vehicles, and trucks."
	Code of Federal Regulations, Part 571, Subpart B, "Federal Motor Vehicle andards" (FMVSS), No. 210, "Seat belt assembly anchorages."
Safety Sta multipurp	Code of Federal Regulations, Part 571, Subpart B, "Federal Motor Vehicle andards," (FMVSS), No. 213, "Child restraint systems passenger cars, ose passenger vehicles, trucks, and busses, and child restraint systems motor vehicles and aircraft."
Safety St	Code of Federal Regulations, Part 571, Subpart B, "Federal Motor Vehicle andards" (FMVSS), No. 302, "Flammability of interior materials – er cars, multipurpose passenger vehicles, trucks, and busses."
ubmitter Info	ormation Verification
	ull Name: [ Not Specified ]
Submitter Fu	ull Name: [ Not Specified ] n: [ Not Specified ]
Submitter Fu	ull Name: [ Not Specified ] n: [ Not Specified ]
Submitter Fu Organizatior Street Addre City: State:	ull Name: [ Not Specified ] n: [ Not Specified ]
Submitter Fu Organizatior Street Addre City:	ull Name: [ Not Specified ] n: [ Not Specified ] ess:
Submitter Fu Organization Street Addre City: State: Zip: Submittal Da	ull Name: [ Not Specified ]         n:       [ Not Specified ]         ess:         ate:       Tue Nov 19 10:44:40 EST 2013
Submitter Fu Organization Street Addre City: State: Zip:	ull Name: [ Not Specified ]         n:       [ Not Specified ]         ess:         ate:       Tue Nov 19 10:44:40 EST 2013



y Oub-Oeci	ions]]
provides emergen the prima emergen scene as the patie	used for out <u>-</u> of <u>-</u> hospital medical care and patient transport <u>, which that</u> a driver's compartment; a patient compartment to accommodate an cy medical services provider (EMSP) and <u>at least</u> one patient located on rry cot <u>positioned</u> so <del>positioned</del> that the primary patient can be given cy care during transit; equipment and supplies for emergency care at the well as during transport; safety, comfort, and avoidance of aggravation of nt's injury or illness; two-way radio communication; and audible and visual rrning devices.
ubmitter Inf	ormation Verification
	ull Name: [ Not Specified ]
Organizatio	
Street Addr	BS:
City:	
State:	
Zip: Submittal D	ate: Thu Oct 17 08:36:34 EDT 2013
	ale. 110 OCI 17 00.30.34 EDT 2013
Submittar D	
	atement
Committee Statement:	atement This allows for the definition of ambulance to contemplate the potential fo more than one patient to be transported in the back of the ambulance, and the addition of the phrase precludes an erroneous interpretation that the ambulance can be constructed to transport only one patient. The commas are editorial in nature and to ensure that there is not more than one patient on the primary cot.
ommittee St Committee	This allows for the definition of ambulance to contemplate the potential for more than one patient to be transported in the back of the ambulance, and the addition of the phrase precludes an erroneous interpretation that the ambulance can be constructed to transport only one patient. The commas are editorial in nature and to ensure that there is not more than one patient

First Pov	ision No. 103-NFPA 1917-2013 [ New Section after 3.3.47 ]
3349 P	rimary Patient Care Seat
	ig postion designated by the AHJ from which the EMSP is expected to
	imary patient care.
hubmittar Info	rmation Verification
Submitter mo	
Submitter Fu	II Name: [ Not Specified ]
Organization	: [Not Specified ]
Street Addres	SS:
City:	
State:	
Zip:	
Submittal Dat	te: Tue Oct 22 10:23:51 EDT 2013
committee Sta	itement
Committee	The committee has added this tarm to provide the and user with further
Statement:	The committee has added this term to provide the end user with further clarification as the term is used throughout the document but has not beer previously defined. This is new text being added to the document.
Response Message:	

First Rev	ision No. 104-NFPA 1917-2013 [ New Section after 3.3.58 ]
NFFA	
	ubstantially Similar Ambulance.
	ore components or systems that are the same and that perform the same n vehicles or equipment sold or offered for sale in the United States,
	of whether the part numbers are identical.
Cubmitter Infe	rmation Verification
Submitter into	rmation verification
Submitter Fu	II Name: [ Not Specified ]
Organization	: [Not Specified ]
Street Addres	SS:
City:	
State:	
Zip:	
Submittal Da	te: Tue Oct 22 10:27:34 EDT 2013
Committee Sta	itement
Committee Statement:	The committee has added this term to provide the end user with further clarification as the term is used throughout the document but has not been previously defined. This is new text being added to the document.
Response Message:	
Public Input N	lo. 214-NFPA 1917-2013 [Section No. 6.3.2]

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First Rev	vision No. 105-NFPA 1917-2013 [ New Section after 3.3.63 ]
A docume	<u>Type Certificate.</u> ent that is issued to certify the compliance of an ambulance design or nt to a specific test.
Supplemental	Information
FR_105_Anr	File NameDescriptionnex_text_for_3_3_XX.docx
Submitter Info	ormation Verification
Submitter Fu	ull Name: [ Not Specified ]
Organizatior	I: [Not Specified ]
Street Addre	ess:
City:	
State:	
Zip: Submittal Da	ate: Tue Oct 22 10:32:34 EDT 2013
Committee Sta	atement
Committee Statement:	The committee has provided this definition to provide the end user with further clarification. There is also annex material included that is to be added as well. This is new text being added to the main body of the document and the annex.
Response Message:	

# A.3.3.XX Type Certificate.

A certificate is usually issued on a production sample and used on subsequent units that are substantially similar.

First Revision No. 102-NFPA 1917-2013 [ New Section after 3.3.67 ]           3.3.10*       Common and Critical Equipment and Supplies.         Equipment and/or supply items that are frequently used for or are essential to providing patient care.         Supplemental Information         Elie Name       Description         FR_102_A.3.3.xx.docx         Submitter Information Verification         Submitter Full Name: [Not Specified ]         Organization:       [ Not Specified ]         Organization:       [ Not Specified ]         Street Address:       City:         State:       Zip:         Submittel Date:       Tue Oct 22 09:41:47 EDT 2013         Committee Statement       A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response       Message:         Public Input No. 260 NEPA 1017 2013 [New Section after 3.3.67]			
<b>3.3.10</b> *       Common and Critical Equipment and Supplies. Equipment and/or supply items that are frequently used for or are essential to providing patient care.         Supplemental Information       Elie Name       Description         FR_102_A.3.3.xx.docx       Submitter Information Verification         Submitter Full Name: [Not Specified ]       Organization:       [Not Specified ]         Organization:       [Not Specified ]       Street Address:         City:       State:       Zip:         Submittee Statement       Tue Oct 22 09:41:47 EDT 2013         Committee Statement       A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:       Response			
Equipment and/or supply items that are frequently used for or are essential to providing patient care.         Supplemental Information         File Name       Description         FR_102_A.3.3.xx.docx         Submitter Information Verification         Submitter Full Name: [Not Specified ]         Organization:       [Not Specified ]         Street Address:         City:         State:         Zip:         Submittel Date:       Tue Oct 22 09:41:47 EDT 2013         Committee Statement         Committee Adement:         A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:	First Revision No. 102-NFPA 1917-2013 [New Section after 3.3.67]		
Equipment and/or supply items that are frequently used for or are essential to providing patient care.         Supplemental Information         File Name       Description         FR_102_A.3.3.xx.docx         Submitter Information Verification         Submitter Full Name: [Not Specified ]         Organization:       [Not Specified ]         Street Address:       City:         State:       Zip:         Submittal Date:       Tue Oct 22 09:41:47 EDT 2013         Committee       A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:       Response Message:			
providing patient care.         Supplemental Information         Elle Name Description         FR_102_A.3.3.xx.docx         Submitter Information Verification         Submitter Information Verification         Submitter Full Name: [ Not Specified ]         Organization:       [ Not Specified ]         Organization:       [ Not Specified ]         Street Address:       [ City:         State:       [ Zip:         Submittal Date:       Tue Oct 22 09:41:47 EDT 2013         Committee Statement         Committee       A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:       Response			
Supplemental Information         File Name       Description         FR_102_A.3.3.xx.docx       Submitter Information Verification         Submitter Full Name: [ Not Specified ]       Organization:         Organization:       [ Not Specified ]         Street Address:       City:         State:       Zip:         Submittel Date:       Tue Oct 22 09:41:47 EDT 2013         Committee Statement         Committee       A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response       Message:			
File Name       Description         FR_102_A.3.3.xx.docx         Submitter Information Verification         Submitter Full Name: [Not Specified ]         Organization:       [Not Specified ]         Organization:       [Not Specified ]         Street Address:       [         City:       State:         Zip:       Submittal Date:         Submittee Statement       Tue Oct 22 09:41:47 EDT 2013         Committee Statement       A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response       Message:			
FR_102_A.3.3.xx.docx         Submitter Information Verification         Submitter Full Name: [Not Specified ]         Organization:       [Not Specified ]         Street Address:         City:         State:         Zip:         Submittal Date:       Tue Oct 22 09:41:47 EDT 2013         Committee Statement         Committee Statement         Statement:         A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:	Supplemental Information		
Submitter Information Verification         Submitter Full Name: [Not Specified ]         Organization:       [Not Specified ]         Street Address:         City:         State:         Zip:         Submittal Date:       Tue Oct 22 09:41:47 EDT 2013         Committee Statement         Committee Statement:         equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:	File Name Description		
Submitter Full Name: [ Not Specified ]         Organization:       [ Not Specified ]         Street Address:         City:         State:         Zip:         Submittal Date:       Tue Oct 22 09:41:47 EDT 2013         Committee Statement         Committee Statement:         State:         A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:	FR_102_A.3.3.xx.docx		
Submitter Full Name: [ Not Specified ]         Organization:       [ Not Specified ]         Street Address:         City:         State:         Zip:         Submittal Date:       Tue Oct 22 09:41:47 EDT 2013         Committee Statement         Committee Statement:         Statement:         A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:	Submitter Information Verification		
Organization:       [Not Specified]         Street Address:       [Not Specified]         City:       State:         Zip:       Submittal Date:         Submittal Date:       Tue Oct 22 09:41:47 EDT 2013         Committee       Statement         Committee       A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response       Message:			
Street Address:         City:         State:         Zip:         Submittal Date:       Tue Oct 22 09:41:47 EDT 2013         Committee Statement         Committee Statement:         A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:			
City: State: Zip: Submittal Date: Tue Oct 22 09:41:47 EDT 2013 Committee Statement Committee Statement A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term. Response Message:			
State:         Zip:         Submittal Date:       Tue Oct 22 09:41:47 EDT 2013         Committee Statement         Committee Statement:         A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:			
Zip:         Submittal Date:       Tue Oct 22 09:41:47 EDT 2013         Committee Statement         Committee Statement:         A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:			
Submittal Date:       Tue Oct 22 09:41:47 EDT 2013         Committee Statement:       A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:       Response Message:			
Committee Statement         Committee Statement:         A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.         Response Message:			
Committee Statement:A new requirement item about reach-ability of the interior storage for critical equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.Response Message:			
Statement:equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.Response Message:	Committee Statement		
Statement:equipment/supplies is recommended. It is useful to provide a definition of common and critical equipment or supplies. The committee is also adding annex material, as noted in the attached document, to this term.Response Message:	<b>Committee</b> A new requirement item about reach-ability of the interior storage for critical		
annex material, as noted in the attached document, to this term. Response Message:	Statement: equipment/supplies is recommended. It is useful to provide a definition of		
Response Message:			
Message:			
Public Input No. 260 NEDA 1017 2013 [New Section after 3 3 67]	Message:		
I UDIC INDULINO. 200-INFER 1817-2013 [New Section aller 3.3.07]	Response		

# A.3.3.xx

The specific list might differ between ambulance stations and/or by the particular needs of the call.

A 1 11	Vet Location <u>(Related to Ambulances)</u> .
driving dr compartr	n on a nonenclosed, exterior surface of an ambulance body or <u>iver</u> and crew compartment or a nonsheltered location inside a nent with a door or cover that, while open, exposes the enclosure or and to the environment.
ubmitter Info	ormation Verification
Submitter F	ull Name: [ Not Specified ]
Organizatio	n: [Not Specified]
Street Addre	ess:
City:	
State:	
Zip: Submittal D	ate: Thu Oct 17 08:47:04 EDT 2013
Submittar D	ate. Thu Oct 17 08.47.04 EDT 2013
ommittee St	atement
Committee Statement:	The concept of wet location is used in multiple connotations, especially with regard to health care occupancies, where it usually refers to operating rooms. NFPA has several other definitions of "wet locations", including the following:
	NFPA 1901: A nonsheltered location inside a compartment with a door or cover that, while open, exposes the electrical enclosure or panelboard to the same environmental conditions as the exterior of the fire apparatus. A location on a nonenclosed, exterior surface of a fire apparatus body or driving and crew compartment where the enclosure or panel is exposed to
	the environment.
	the environment. NFPA 1906: A location on fire apparatus subject to saturation with water or other liquids and in unprotected locations exposed to the weather.
	NFPA 1906: A location on fire apparatus subject to saturation with water or

4 <del>.3.1.2</del>	
	detailed description shall include a statement specifically
	aspect of the delivered ambulance that will not be fully compliant nents of this standard.
bmitter Informat	ion Verification
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Submitter Full Nan	
•	[Not Specified ]
Street Address:	
City:	
State:	
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Submittal Date:	Thu Oct 17 09:01:49 EDT 2013
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mmittee Stateme	ent
Committee Statem	ent: This is redundant with 4.17 and the language in 4.17 is superior

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First Revision	No. 106-NFPA 1917-2013 [ Section No. 4.4.4 ]
specified in this s	ms, equipment, and interfaces with the chassis not otherwise standard shall be <del>done in</del> <u>maintained in</u> accordance with the ody Builders Guidelines chassis original equipment manufacturer's ders guidelines.
Supplemental Inform	mation
	Ie Name         Description           v.1390511604297_2docx
Submitter Informati	on Verification
Submitter Full Nam	e: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City: State:	
Zip:	
Submittal Date:	Tue Oct 22 10:48:08 EDT 2013
Committee Stateme	nt
Committee Statement:	The committee has added this annex material to provide further clarification.
Response Message	

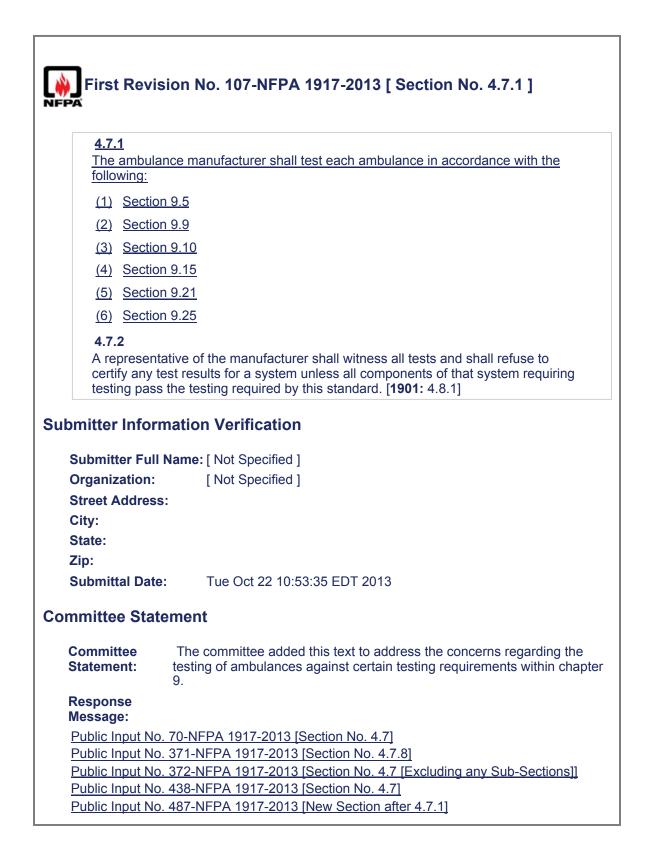
### A.4.4.4

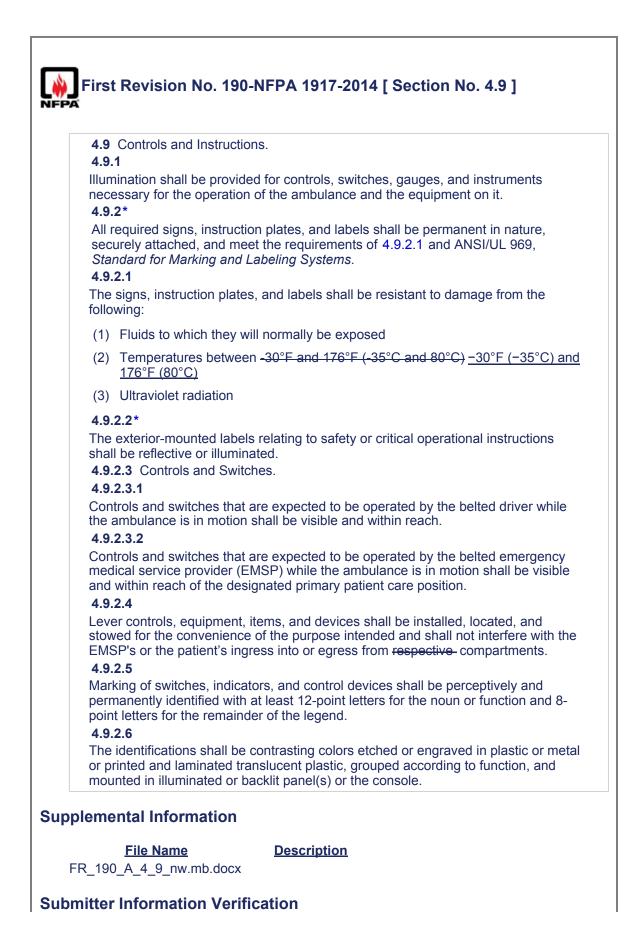
Chassis OEM body builders' guidelines and incomplete vehicle manuals are provided by each chassis manufacturer. These documents provide guidance on how to mount bodies and equipment on each chassis, what types of modifications are allowed, and how to avoid defeating features that are required to comply with Federal Motor Vehicle Safety Standards (FMVSS).

Purchasers should consult these documents prior to creating a purchase specification to ensure they are not asking for features that would contradict the chassis OEM's guidance.

Certain chassis OEMs do allow an ambulance built on their chassis to be used to tow a trailer even though their product might have the features necessary to install a tow package. Purchasers who intend to tow a trailer with their ambulance should be aware of any chassis restrictions and the potential of voiding the warranty. Г

First Revision No. 5-NFPA 1917-2013 [Section No. 4.6.1]
<ul> <li>4.6.1</li> <li><u>Initial type testing shall be conducted by a third-party test facility for test methods</u> identified in Chapter 9.</li> <li>4.6.2</li> </ul>
Testing shall be witnessed or performed by an organization that is accredited for inspection of ambulances in accordance with ISO/IEC 17020, <i>General Criteria for the Operation of Various Types of Bodies Performing Inspection,</i> or accredited for testing ambulances to this standard in accordance with ISO/IEC 17025, <i>General Requirements for the Competence of Testing and Calibration Laboratories.</i> <b>4.6.2.1</b>
The scope of accreditation for the laboratory shall include the tests as prescribed in Chapter 9.
Submitter Information Verification
Submitter Full Name: [ Not Specified ]
Organization: [Not Specified]
Street Address:
City:
State:
Zip:
Submittal Date: Thu Oct 17 09:09:59 EDT 2013
Committee Statement
<b>Committee</b> <b>Statement:</b> The committee is adding this requirement for type testing believing they are meeting the intent of the submitted public inputs relating to this subject.
Response Message:
Public Input No. 68-NFPA 1917-2013 [New Section after 4.6]
Public Input No. 204-NFPA 1917-2013 [Section No. 4.6]
Public Input No. 318-NFPA 1917-2013 [Sections 4.6, 4.7]
Public Input No. 387-NFPA 1917-2013 [Section No. 6.3.2]
Public Input No. 437-NFPA 1917-2013 [Section No. 4.6]
Public Input No. 486-NFPA 1917-2013 [Section No. 4.6]





Submitter Full Name: [ Not Specified ]	
Organization: [Not Specified]	
Street Address: City:	
State:	
Zip:	
Submittal Date: Mon Jan 06 09:29:14 EST 2014	
Committee Statement	
Committee (1) EMSPs need to read labels as quickly and easily Statement: delay while treating patients. The requirement is obti- orientation, (2) Labels should always be within EMS irrespective of position or posture within the patient or requirement is obtained from Section 5.4.3.2, Obscu- which specifies conditions that would otherwise prev- visually accessing the labels. (3)The human eye cap accurately and easily depends on the quantity of ligh the color of characters, and the background. The red- the signs can be read is obtained from Section 5.4.6 MIL-STD- 1472, Black Characters, that determines the background for the labels when ambient illuminance level. (4)The character size, spacing, and orientation EMSPs and other occupants can easily read then at location in the patient compartment. The requirement XXI, Character Heights Versus Luminance and View 1472G, which specifies the height of characters to er should be adopted in the ambulance industry. (5)Thh and orientation should be such that the EMS provide can easily read then accurately irrespective of where compartment. The requirement is obtained from Sec Width, of MIL-STD-1472G, which specifies the width enable easy reading that should be adopted in the a compartment. (6)The character size, spacing, and o that the EMS providers and other occupants can easil irrespective of where they are in the patient compart obtained from section 5.4.6.3.5, Numerical Width, of character size, spacing, and orientation should be signed be signed at the space of where they are in the patient compart obtained from section 5.4.6.3.2, Plain Style, of MIL- characters are not read properly, letters and numerar shapes should be easily distinguished from one ano obtained from Section 5.4.6.3.2, Plain Style, of MIL- character size, spacing, and orientation should be signer providers and other occupants can easily read then where they are in the patient compartment or state of ambulance. The requirement is obtained from Section Reading, of MIL-STD-1472G.	ained from Section 5.4.2, the appropriate text Ps visual access, compartment. The ration, of MIL-STD1472G, ent the EMSPs from bacity to read signs at incident on the object, quirement to ensure that .1, Black Characters, of he nature of the exceeds a particular is should be such that the curately irrespective of at is obtained from Table ring Distance, of MIL-STD- nable easy reading that e character size, spacing, ers and other occupants e they are in the patient tion 5.4.6.3.4, Letter of the characters to mbulance patient rientation should be such sily read them accurately ment. The requirement is MIL-STD-1472G. (7)The uch that the EMS accurately irrespective of a in treatment if the ls that have similar ther. The requirement is STD-1472G. (9)The uch that the EMS accurately irrespective of f motion of the
Message:	
Public Input No. 200-NFPA 1917-2013 [New Section after A.4.8.	<u>1]</u>

## A.4.9.2

Labels should follow certain parameters:

- (1) They should be positioned horizontally to read left to right.
- (2) They should be located where a control or a user's normal hand, arm position, or any other item will not obscure the label or not where the label obscures any other information.
- (3) Where the ambient illuminance is above 10 lux [0.9 footcandle (fc)], the label should be composed of black characters on a light background.
- (4) They should be composed of characters whose heights are between 0.12 in. and 0.20 in. times *D*/28 in. (between 3.0 mm and 5.0 mm times *D*/710 mm), where *D* is the viewing distance [in. (m)].
- (5) Alphanumeric characters should have a width-to-height ratio, where width should be 0.6 in. (15.24 mm) to 0.8 in. (20.32 mm) of the height except for single-stroke characters (e.g., I, 1), which should be between 0.1 in. (2.54 mm) and 0.2 in. (5.08 mm) of the height, and the number 4, which should be 0.8 in. (20.32 mm) of the height.
- (6)
- (7) They should be composed with characters that have stroke widths that meet the following parameters:
  - (a) *For normal characters.* For black characters on a white (or light) background, the stroke width should be 0.1667 in. (4.23 mm) to 0.1429 in. (3.63 mm) of the height. The stroke width should be the same for all letters and numerals of equal height.

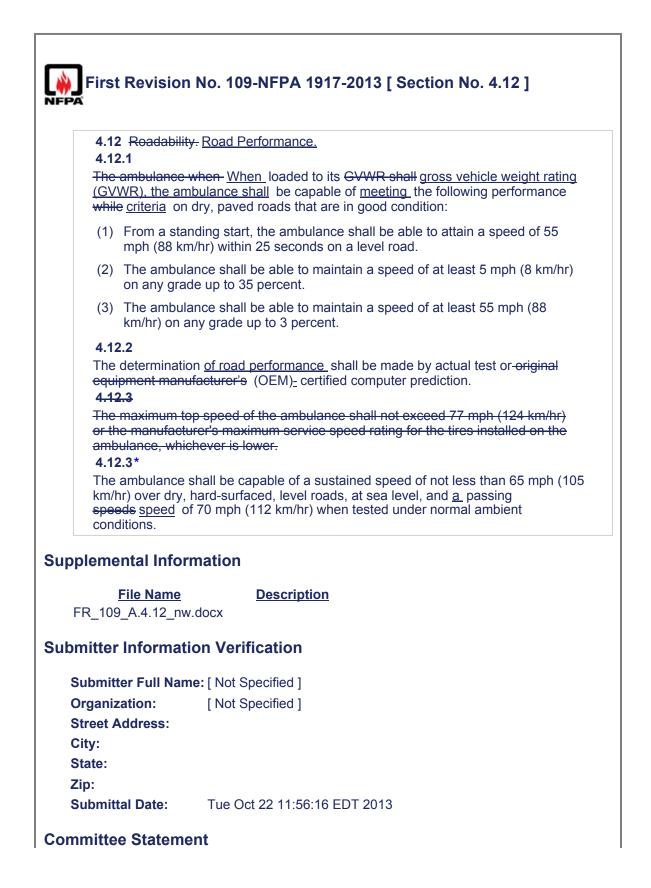
- (b) *For transilluminated characters.* The stroke width should be 0.1 in. (2.54 mm) of the height.
- (c) *Ratio.* The stroke width ratios should apply regardless of how high characters are made for distance viewing. However, for certain applications characters with different stroke widths can be used on the same sign for emphasis. In this case, the thinnest character stroke should be no less than 0.125 in. (3.175 mm), and the thickest character stroke no greater than 0.2 in. (5.08 mm) of the respective character heights.
- (8) Composed with characters in a plain typeface without serifs (i.e., sans serif fonts) except as necessary to distinguish characters that could otherwise be confused [e.g., "l" (lowercase "ell"), "I" (uppercase "eye"), and "1" ("one"); "0" ("zero") and "O" (uppercase "oh")].
- (9) They should be easy to read accurately from operational reading distances and in the anticipated vibration, motion, and illumination environments.

FPA	vision No. 6-NFPA 1917-2013 [ Section No. 4.11.1 ]
	pulance shall meet the requirements of this standard at elevations up to 600 m) above sea level.
	ormation Verification
Submitter F	ull Name: [ Not Specified ]
Organizatio	
Street Addr	ess:
City:	
State:	
Zip:	
Submittal D	ate: Thu Oct 17 09:31:46 EDT 2013
ommittee St	tatement
Committee Statement:	
Response Message:	
	No. 74-NFPA 1917-2013 [Section No. 4.11.1]
Public Input	No. 319-NFPA 1917-2013 [Section No. 4.11.1]

Ē

	ulance shall meet all the requirements of this standard while stationary on of 6 percent in any direction.	
ıbmitter Info	ormation Verification	
Submitter Fi	ull Name: [ Not Specified ]	
Organization	n: [Not Specified]	
Street Addre	955:	
City:		
State:		
Zip:		
Submittal Da	ate: Thu Oct 17 09:34:08 EDT 2013	
ommittee St	atement	
Committee Statement:		
Response		

NFPA	ion No. 8-NFPA 1917-2013 [ Section No. 4.11.3 [Excluding
any Sub-Section	s]]
be designed	erature requirements are not otherwise specified, the ambulance shall to function in ambient temperature conditions between <del>-20°F and 110° [43°C]</del> .
Submitter Inform	nation Verification
Submitter Full N	Name: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 09:42:58 EDT 2013
Committee State	ement
Statement: c	While the committee agrees with the submitters change on the lower end of the temperature range they believe that the higher end should stay as vritten in the document due to the high temperature ranges that exist.
Response Message:	
Public Input No.	77-NFPA 1917-2013 [Section No. 4.11.3]
	321-NFPA 1917-2013 [Section No. 4.11.3 [Excluding any Sub-Sections]]
Public Input No.	441-NFPA 1917-2013 [Section No. 4.11.3]



	Members of the NFPA 1917 committee overwhelmingly feel that top speed is an important element of driving safety. While there was a desire to establish a minimum top speed, the committee could not agree that a maximum speed could be determined that would be appropriate for all areas across the nation. Variations in geography, population density, infrastructure, jurisdiction regulations or other factors would impact the selected speed limit. The proposed annex item suggests that agencies should consider controlling top speed appropriate for their region.
	Also add the attached new annex material to the existing 4.12.
Response Message:	
Public Input	No. 8-NFPA 1917-2013 [Sections 4.12.3, 4.12.4]
Public Input	No. 78-NFPA 1917-2013 [Section No. 4.12.3]
Public Input	No. 301-NFPA 1917-2013 [Section No. 4.12.3]
Public Input	No. 322-NFPA 1917-2013 [Section No. 4.12.3]
Public Input	No. 373-NFPA 1917-2013 [Section No. 4.12.3]
Public Input	No. 442-NFPA 1917-2013 [Section No. 4.12.3]

## A.4.12.4

This standard does not specify a limit to the top speed of the ambulance. Purchasers might want to specify a speed limitation feature as a tool to augment their ambulance driver safety policy. Information and recommendations on ambulance operation training can be found in NFPA 1451. Information on ambulance crash statistics can be found in *Analysis of Ambulance Crash Data*, published by the NFPA Fire Protection Research Foundation.

1 1	6.2.3*
The for t	contractor shall also deliver with the ambulance the following documentation he entire ambulance and each major operating system or major component of ambulance:
(1)	Manufacturer's name and address
(2)	Country of manufacture
(3)	Source for service and technical information
(4)	Parts replacement information
(5)	Descriptions, specifications, and ratings of the chassis
(6)	Wiring diagrams for low voltage and line voltage ambulance-specific systems to include the following information:
	(a) Circuit logic for all electrical components and wiring
	(b) Circuit identification
	(c) Connector pin identification
	(d) Zone location of electrical components
	(e) Safety interlocks
	(f) Alternator battery power distribution circuits
	(g) Input/output assignment sheets or equivalent circuit logic implemented multiplexing systems
(7)	Lubrication charts
(8)	Operating instructions for the chassis and any major components
(9)	Instructions regarding the frequency and procedure for recommended maintenance
(10	) Overall ambulance operating instructions
(11	) Safety considerations
(12	) Limitations of use
(13	) Inspection procedures
(14	) Recommended service procedures
(15	) Troubleshooting guide
(16	) Ambulance body, chassis, and other component manufacturer's warranties
(17	) Special data required by this standard
(18	) Material safety <u>Safety</u> data sheet (MSDS <u>SDS</u> ) for any fluid that is specified for use on the ambulance module

Organization: Street Address City: State: Zip:	
Submittal Date	<b>2:</b> Thu Oct 24 14:25:39 EDT 2013
Committee Stat	ement
Committee Statement:	OSHA has amended the Hazard Communication standard to bring it into concert with the worldwide Global Harmonization Standard. As a result the term "Material" has been deleted.
Response Message:	
Public Input No	o. 81-NFPA 1917-2013 [Section No. 4.16.2.3]
Public Input No	<u>). 324-NFPA 1917-2013 [Section No. 4.16.2.3]</u>
Public Input No	o. 444-NFPA 1917-2013 [Section No. 4.16.2.3]

A 47 Ototomout	of Expontions
ambulance eithe minimum require specifically descr compliant with th exceptions to this exceptions based	of Exceptions. Insible for final assembly of the ambulance shall deliver with the - a certification that the ambulance fully complies with all the ements of this standard or, alternatively, a Statement of Exception ribing each aspect of the completed ambulance that is not fully re requirements of this standard at the time of delivery. when s standard are required by the purchaser, a statement of d on any exceptions to this standard that are required to meet the the purchaser shall be listed and attached to the owner's manual.
4.17.1	
exception at the t standard for whic	atement of Exceptions exceptions shall contain, for each ime of delivery a separate listing of the section(s) of the applicabl h an exception has occurred. noncompliant aspect of the ssing required item, the following information:
A separate I compliance	isting of the section(s) of the applicable standard for which is lacking
	n of the particular aspect of the ambulance that is not in therewith or required equipment that is missing
	n of the further changes or modifications to the delivered that must be completed to achieve full compliance
post-deliver	n of the entity that will be responsible for making the necessary y changes or modifications or for supplying and installing any uired equipment to the ambulance to achieve full compliance with d
4 <u>.17.2</u>	
shall be signed by of the ambulance	time of, delivery of the ambulance, the Statement of Exceptions y an authorized agent of the entity responsible for final assembly and by an authorized agent of the purchasing entity, indicating iding and agreement between the parties regarding the if.
certification of full	at is delivered subject to a Statement of Exceptions other than a I compliance shall not be placed in emergency service until the een modified as necessary to accomplish full compliance with
mitter Informatio	on verification
Submitter Full Name	e: [Not Specified ]
	[ Not Specified ]
Street Address:	
ity:	
City: State:	
•	

Committee Sta	tement
Committee Statement:	The committee has made these changes based on TIA's that were submitted as well as several public inputs that were received.
Response Message:	
	o. 7-NFPA 1917-2013 [Section No. 4.17]
	o. 375-NFPA 1917-2013 [Section No. 4.17.1] o. 376-NFPA 1917-2013 [Section No. 4.17.3]

<b>5.1.2</b> The manufacturer shall establish the req ambulance using the method and values Table 5.1.2 Required GVWR Calculation	specified in Table 5.1.2.	the
Component	Specification Component	<u>Weigh</u> (Ib)
<u>Component</u> Chassis	Specification Component	<u>(ui)</u>
Ambulance body complete		
Automotive fluids		
Permanently mounted equipment		
Loose equipment	Туре I	750
(Use one of these values unless the requirement is specified by the purchaser)	•••	1250
	Туре II	500
	Type III	750
	Type III-AD	1250
Belted occupant seating positions	(No. Seats) ×	171
Cot patient		171
Cot	Standard cot	100
	Power cot	150
Spare capacity		200
Minimum GVWR required		
Note: For SI units, 1 lb = 0.45 kg.		
Eile Name       Description         R_134_5.1.1_nw.docx         nitter Information Verification         ubmitter Full Name: [Not Specified ]		
rganization: [Not Specified] treet Address: ity: tate: ip:		

Committee Stat	ement
Committee Statement:	Please see and use the attached document as new text for a new section above the existing 5.1.1.
	The committee has added this new text to provide the end user with further clarification as well as addressing the submitters concerns based on the ublic input that was submitted.
Response Message:	
Public Input No	0. 377-NFPA 1917-2013 [Section No. 5.1.1]

## 5.1.1

The manufacturer shall design the ambulance so that the completed ambulance, when loaded to its required GVWR with all loose equipment distributed as closely as is practical to its intended in-service configuration, does not exceed the gross vehicle weight rating (GVWR) or gross axle weight rating (GAWR) of the chassis using the method and values specified in Table 5.1.1.

PA	n No. 135-NFPA 1917-2013 [ Section No. 5.1.3.2 ]		
	show the height of the completed ambulance in feet and inches ne GVWR in tons <u>and pounds</u> (metric tons <u>and kilograms</u> ).		
ıbmitter Informat	ion Verification		
Submitter Full Nam	ne: [ Not Specified ]		
Organization:	[ Not Specified ]		
Street Address:			
City:			
State:			
Zip:			
Submittal Date:	Thu Oct 31 10:53:13 EDT 2013		
ommittee Statem	nmittee Statement		
Committee Statement:	The committee agrees with the submitters intems but has chosen this text.		

	all be validated by testing a substantially similar ambulance in Section: 9.22 -
ubmitter Informat	ion Verification
Submitter Full Nar	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Wed Oct 30 10:53:12 EDT 2013
ommittee Statem	ent
Committee Statement:	The committee has chosen to delete this section as there is no 9.22 to test to.
Response Messag	e:

E

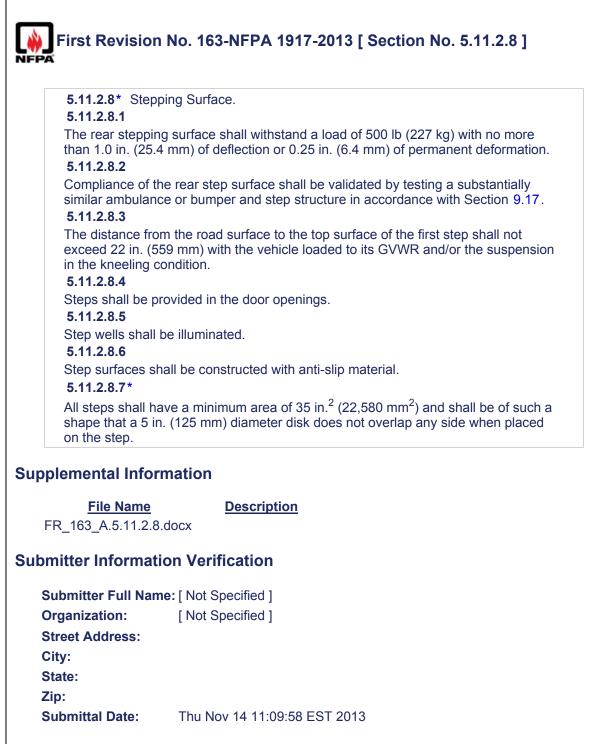
	mation Verification Name: [Not Specified ] [Not Specified ]		
Organization: Street Address City: State: Zip:	[ Not Specified ]		
Organization: Street Address City: State: Zip:	[ Not Specified ]		
City: State: Zip:			
State: Zip:			
Zip:			
Submittal Date			
	: Tue Oct 22 12:07:45 EDT 2013		
ommittee Stat	mmittee Statement		
Statement: ca ar the re idl	his should be locally determined if not regulated by the state. There may be ses where statute prohibits disabling the idle reduction shutdown device. I by case, there is no reason to stipulate disabling of the shutdown device as a ambulance manufacturers will do this automatically in order to sustain the quired alternator output. The exception will be on ambulances with anti- ing systems with a voltage-monitoring, auto re-start feature, in which case a requirement to disable the shutdown device would be inappropriate.		
Response			
Message:	. 82-NFPA 1917-2013 [Section No. 5.3.4]		

F A A 4	
<b>5.4.1</b> *	ed auxiliary control device (high-idle switch, throttle, or automatic
voltage monito	br) shall be installed to allow an increase in the engine speed to no 00 revolutions per minute when the ambulance is parked.
ubmittor Inform	ation Verification
upmitter informa	
Submitter Full Na	ame: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Oct 22 12:08:39 EDT 2013
ommittee Stater	nent
Committee Statement:	The committee has made this change believing that they have addressed the submitters concerns raised with their public input.
	audressed the submitters concerns raised with their public input.
Response Message:	
•	81-NFPA 1917-2013 [Section No. 5.4.1]

24	
<del>5.5.2</del>	
Compliance of t substantially sin	he engine's cooling system shall be validated by testing a nilar ambulance in accordance with Section- 9.14
bmitter Informat	ion Verification
Submitter Full Nar	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 14:05:22 EDT 2013
mmittee Statem	ent
	ent: This is already covered in 4.6

	sion No. 113-NFPA 1917-2013 [ Section No. 5.8.2 ]
<b>5.8.2</b> *	ontrol feature shall be provided if available from the OEM .
A traction of	Shiroi leature shan be provided <u>in available from the OEM</u> .
Submitter Inform	mation Verification
Submitter Full	Name: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address	5:
City:	
State:	
Zip:	
Submittal Date	Tue Oct 22 13:15:54 EDT 2013
Committee Stat	ement
Committee Statement:	The current wording restricts the use of some currently used chassis so the committee has chosen to make the suggested change.
Response Message:	
Public Input No	0. 383-NFPA 1917-2013 [Section No. 5.8.2]

e chains shall be provided for rear wheels in accordance with SAE and Combinations of Vehicles - tion Verification ne: [Not Specified ] [Not Specified ]			
n Clearance — Trucks, Buses (Except Suburban, Intercity, and and Combinations of Vehicles - ion Verification ne: [ Not Specified ]			
ion Verification ne: [Not Specified ]			
ne: [ Not Specified ]			
ne: [ Not Specified ]			
[Not Specified ]			
Wed Oct 23 15:07:12 EDT 2013			
mmittee Statement			
The committee has chosen to delete this requirement as they believe			
reates a potential conflict or is not applicable.			



#### **Committee Statement**

Committee<br/>Statement:Entry to and exit points from the ambulance is where an accidental misstep<br/>by EMS providers and passengers can take place, especially when they are<br/>walking backwards and carrying the patient onto or off the ambulance. If<br/>such an accident should occur serious injuries can occur. To reduce the risk<br/>the practice recommended is that the width of the stairs should not be<br/>smaller than the width of the entry/exit opening.Response<br/>Message:Add the text in the attached document as a new annex item for 5.11.2.8Public Input No. 139-NFPA 1917-2013 [New Section after 5.11.2.8.7]

### A.5.11.2.8

Steps at doorway entries and exits should be at least the width of the doorway opening.

Street Address:         City:         State:         Zip:         Submittal Date:       Thu Oct 17 14:28:20 EDT 2013         nmittee Statement         Committee       The committee has chosen to delete this as it is addressed by other documents. In by deleting the this subsection of text the committee believes they have met the submitters intent.         Response       Message:         Public Input No. 385-NEPA 1917-2013 [Section No. 5.14.4]         Public Input No. 326-NEPA 1917-2013 [Section No. 5.14.4]		iew mirror's reflective surface outboard edge shall extend at least 1 in. eyond the outside of the modular body.
Organization:       [Not Specified ]         Street Address:       [Oity:         City:       State:         Zip:       Submittal Date:       Thu Oct 17 14:28:20 EDT 2013         nmittee Statement       Committee Statement         Committee Statement:       The committee has chosen to delete this as it is addressed by other documents. In by deleting the this subsection of text the committee believes they have met the submitters intent.         Response Message:       Public Input No. 385-NFPA 1917-2013 [Section No. 5.14.4]         Public Input No. 326-NFPA 1917-2013 [Section No. 5.14.4]	omitter Inform	nation Verification
Street Address:         City:         State:         Zip:         Submittal Date:       Thu Oct 17 14:28:20 EDT 2013         nmittee Statement         Committee       The committee has chosen to delete this as it is addressed by other documents. In by deleting the this subsection of text the committee believes they have met the submitters intent.         Response       Message:         Public Input No. 385-NFPA 1917-2013 [Section No. 5.14.4]         Public Input No. 326-NFPA 1917-2013 [Section No. 5.14.4]	Submitter Full	Name: [ Not Specified ]
Committee       The committee has chosen to delete this as it is addressed by other documents. In by deleting the this subsection of text the committee	Organization:	[ Not Specified ]
State:         Zip:         Submittal Date:       Thu Oct 17 14:28:20 EDT 2013         nmittee Statement         Committee       The committee has chosen to delete this as it is addressed by other documents. In by deleting the this subsection of text the committee believes they have met the submitters intent.         Response         Message:         Public Input No. 385-NFPA 1917-2013 [Section No. 5.14.4]         Public Input No. 326-NFPA 1917-2013 [Section No. 5.14.4]	Street Address	:
Zip:         Submittal Date:       Thu Oct 17 14:28:20 EDT 2013         nmittee Statement         Committee       The committee has chosen to delete this as it is addressed by other documents. In by deleting the this subsection of text the committee believes they have met the submitters intent.         Response       Message:         Public Input No. 385-NFPA 1917-2013 [Section No. 5.14.4]         Public Input No. 326-NFPA 1917-2013 [Section No. 5.14.4]	City:	
Submittal Date:       Thu Oct 17 14:28:20 EDT 2013         mmittee Statement       The committee has chosen to delete this as it is addressed by other documents. In by deleting the this subsection of text the committee believes they have met the submitters intent.         Response Message:       Public Input No. 385-NFPA 1917-2013 [Section No. 5.14.4]         Public Input No. 326-NFPA 1917-2013 [Section No. 5.14.4]	State:	
mmittee Statement         Committee Statement:       The committee has chosen to delete this as it is addressed by other documents. In by deleting the this subsection of text the committee believes they have met the submitters intent.         Response Message:       Public Input No. 385-NFPA 1917-2013 [Section No. 5.14.4]         Public Input No. 326-NFPA 1917-2013 [Section No. 5.14.4]	Zip:	
Committee       The committee has chosen to delete this as it is addressed by other documents. In by deleting the this subsection of text the committee believes they have met the submitters intent.         Response       Message:         Public Input No. 385-NFPA 1917-2013 [Section No. 5.14.4]         Public Input No. 326-NFPA 1917-2013 [Section No. 5.14.4]	Submittal Date	: Thu Oct 17 14:28:20 EDT 2013
Statement:       documents. In by deleting the this subsection of text the committee believes they have met the submitters intent.         Response       Message:         Public Input No. 385-NFPA 1917-2013 [Section No. 5.14.4]         Public Input No. 326-NFPA 1917-2013 [Section No. 5.14.4]	nmittee State	ement
Message: Public Input No. 385-NFPA 1917-2013 [Section No. 5.14.4] Public Input No. 326-NFPA 1917-2013 [Section No. 5.14.4]		
Public Input No. 326-NFPA 1917-2013 [Section No. 5.14.4]		
	Public Input No	<u>. 385-NFPA 1917-2013 [Section No. 5.14.4]</u>
Public Input No. 446-NFPA 1917-2013 [Section No. 5.14.4]	Public Input No	. 326-NFPA 1917-2013 [Section No. 5.14.4]
Public Input No. 83-NFPA 1917-2013 [Section No. 5.14.4]	Public Input No	

First Revi	sion No. 50-NFPA 1917-2013 [ Section No. 6.1.1 ]
patient com 6.1.2	ned breathing apparatus (SCBA) mounts shall not be located in the appartment.
	the loading door(s).
Supplemental I	nformation
<b>File Na</b> FR_50_A.6.1.1	
Submitter Infor	mation Verification
Submitter Full	Name: [ Not Specified ]
Organization:	
Street Addres	s:
City:	
State:	
Zip: Submittal Date	
Submittal Date	e: Fri Oct 18 08:53:05 EDT 2013
Committee Stat	tement
Committee Statement:	The committee has made these changes to provide further clarification. Also the committee is moving the existing annex item for 6.21.2 to this new section of text as well.
	The attached is the text that is to be associated with the new text that will be above the existing 6.1.1
Response Message:	

### A.6.1.1

It is not recommended that SCBA packs be stored in the patient compartment because of the risk of contamination. If the purchaser does specify The term SCBA as referenced in this section is defined in NFPA 1981. storage in seat backs, the seat backs must meet the requirements in NFPA 1901.

	npartment shall provide a-minimum of 12 in. (300 mm) of clear aisle
walkwa	y on at least one side of the patient cot.
ubmitter In	formation Verification
Submitter	Full Name: [ Not Specified ]
Organizati	on: [Not Specified ]
Street Add	ress:
City:	
State:	
Zip:	
Submittal I	Date: Thu Oct 31 11:03:48 EDT 2013
	This change is being suggested as there is no rationale to the 12 inches and it could possibly be design restrictive. If a minimum width is ever specified, it
	space for a clear aisle walkway in the patient compartment. With the
	increasing demand for ergonomics design criteria in the patient compartment
	the current provision may be unnecessarily restrictive. The standard should be silent on this issue. The inside track dimension of the rear tires plus the
	required tire chain clearance pursuant to SAE J683 creates an absolute limit
	on the maximum aisle width between the wheel wells. Depending upon the cot dimensions—especially in the case of a bariatric cot—it may not be possible to provide a 12" clear aisle.
Response	
Message:	
Public Inpu	t No. 84-NFPA 1917-2013 [Section No. 6.1.2]
Public Inpu	t No. 211-NFPA 1917-2013 [Section No. 6.1.2]
	t No. 302-NFPA 1917-2013 [Section No. 6.1.2]
Public Inpu	t No. 327-NFPA 1917-2013 [Section No. 6.1.2]
Dublic	
	<u>t No. 447-NFPA 1917-2013 [Section No. 6.1.2]</u> <u>t No. 448-NFPA 1917-2013 [New Section after 6.1.2]</u>

First Revision	No. 15-NFPA 1917-2013 [ Section No. 6.3.1 [Excluding
any Sub-Sections]	
the curb weight	<u>upe I-AD</u> ambulance body shall withstand a force equal to 2.5 times of the vehicle applied to the roof of the vehicle's body structure, ing a substantially similar ambulance in accordance with Section
Submitter Informat	ion Verification
Submitter Full Nan	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 14:49:56 EDT 2013
Committee Stateme	ent
Committee Statem	ent: Makes consistent with definitions in chapter 3
Response Message	9:
Public Input No. 213	3-NFPA 1917-2013 [Section No. 6.3.1 [Excluding any Sub-Sections]]
Public Input No. 386	6-NFPA 1917-2013 [Section No. 6.3.1 [Excluding any Sub-Sections]]

E

0.0.4.4	
6.3.1.1 The modular bo	dy shall be tested in accordance with Section 9.1 -
bmitter Informat	ion Verification
Submitter Full Nar	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 14:52:55 EDT 2013
ommittee Statem	ent

First Revision	No. 18-NFPA 1917-2013 [ Section No. 6.3.3 ]
times the curb w	<u>Type III-AD</u> ambulance body shall withstand a force equal to 2.5 reight of the vehicle applied to the roof of the vehicle's body testing a substantially similar ambulance in accordance with
Submitter Informat	ion Verification
Submitter Full Nan	<b>ne:</b> [ Not Specified ]
Organization:	[Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 14:58:36 EDT 2013
Committee Stateme	ent
Committee Statem	ent: Makes consistent with definitions in chapter 3
Response Message	9:
Public Input No. 215	5-NFPA 1917-2013 [Section No. 6.3.3]
Public Input No. 388	3-NFPA 1917-2013 [Section No. 6.3.3]

First Revision	n No. 19-NFPA 1917-2013 [ Section No. 6.4.1 ]
the curb weight	<u>ype I-AD</u> ambulance body shall withstand a force equal to 2.5 times of the vehicle applied to either the driver or passenger side of the tructure, validated by testing a substantially similar ambulance in a Section 9.1.
Submitter Informat	ion Verification
Submitter Full Nar	ne: [Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 15:02:20 EDT 2013
Committee Statem	ent
Committee Statem	ent: Makes consistent with definitions in chapter 3
Response Messag	e:
	7-NFPA 1917-2013 [Section No. 6.4.1]
Public Input No. 38	9-NFPA 1917-2013 [Section No. 6.4.1]

🐞 First Revis	sion No. 137-NFPA 1917-2013 [ New Section after 6.4.2 ]
NFPA	
<u>6.4.3</u>	of the vehicle shall be capable of being energed and closed during the
	of the vehicle shall be capable of being opened and closed during the on of force and after release of force.
Submitter Infor	mation Verification
Submitter Full	Name: [Not Specified ]
Organization:	Name: [Not Specified ] [Not Specified ]
Street Address	
City:	».
State:	
Zip:	
Submittal Date	Thu Oct 31 11:19:19 EDT 2013
Submittal Date	. Ind Oct 31 11.19.19 EDT 2013
Committee Stat	ement
Committee	The committee believes that this text needs to be added and that the
Statement:	means of egress should be validated during the testing of side load
	structural integrity.
	This is new text.
Response	
Message:	
Public Input No	. 219-NFPA 1917-2013 [New Section after 6.4.2]

E

First Revision	No. 20-NFPA 1917-2013 [ Section No. 6.4.2 ]
6.4.2 Any Type III or T	Type III-AD ambulance body shall withstand a force equal to 2.5
times the curb w the vehicle's boo	reight of the vehicle applied to either the driver or passenger side of dy structure, validated by testing a substantially similar ambulance
in accordance w	ith Section 9.1.
Durlana itta v Inda von at	ion Monification
Submitter Informat	ion verification
Submitter Full Nan	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 15:03:13 EDT 2013
Committee Stateme	ent
Committee Statem	ent: Makes consistent with definitions in chapter 3
Response Message	9:
Public Input No. 218	3-NFPA 1917-2013 [Section No. 6.4.2]
Public Input No. 390	D-NFPA 1917-2013 [Section No. 6.4.2]

M First Revisio	on No. 21-NFPA 1917-2013 [ Section No. 6.5.1.1 ]
NFPA	
	no water leakage into the cab, any exterior compartment, or the rtment <del> or through any door seal, light seal, or cab-to-module seal</del> .
Submitter Informa	ation Verification
Submitter Full Na	ame: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 15:10:49 EDT 2013
Committee Stater	nent
Committee	This change was to provide clarification so that there is no area where
Statement:	water should be allowed to leak into the vehicle.
Response Message:	
Public Input No. 2	21-NFPA 1917-2013 [Section No. 6.5.1.1]

6.5.1.2	
	of the body sealing out water shall be validated by <u>the manufacturer</u> ach finished ambulance in accordance with Section 9.9.
ubmitter Inform	nation Verification
Submitter Full N	lame: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 31 11:24:12 EDT 2013
ommittee State	ment
Committee Statement:	The committee has made this change and belives they have addressed the submitters concerns based on the public input that was submitted.
Response Message:	
Public Input No	391-NFPA 1917-2013 [Section No. 6.5.1.2]

6.6.1	
•••••	ngs of modular bodies shall include <del>metal or plastic.</del> splash shields
between the	body wheel housing and the wheels, extending over the top of the ottom of the body side skirting.
bmitter Inform	ation Verification
Submitter Full N	lame: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 15:13:12 EDT 2013
ommittee State	ment
Committee	There may be other materials other than metal and plastic that would

_	
First Rev	ision No. 139-NFPA 1917-2013 [ Section No. 6.7.2 ]
passenge	on(s) shall be located <del>directly</del> behind the driver's seat and the cab r seat when in the rearmost position <u>and the seat back is reclined a</u> of 15 degrees .
Submitter Info	rmation Verification
Submitter Fu	Il Name: [Not Specified ]
Organization	: [Not Specified ]
Street Addres	SS:
City:	
State:	
Zip:	
Submittal Da	te: Thu Oct 31 11:28:15 EDT 2013
Committee Sta	atement
Committee Statement:	All cab seats recline. The committee believes that if they do not specify a minimum recline angle the bulkhead could be positioned directly behind the seats with the seat back in a non reclined vertical position.
Response Message:	
Public Input N	lo. 224-NFPA 1917-2013 [Section No. 6.7.2]

First Re	vision No. 192-NFPA 1917-2014 [ Section No. 6.8.1 ]
entrance	r exterior access handrails or handholds shall be provided at each to a driving or crew compartment and at each position where steps or or climbing are located.
Supplementa	I Information
File Na NEW_A.6.8	
Submitter Inf	ormation Verification
Organizatio Street Addr City: State: Zip:	ess:
Submittal D	ate: Mon Jan 06 10:09:41 EST 2014
Committee St	atement
	Please add the attached text as new annex material. The interior of the patient compartment needs to be kept clean. When surfaces get exposed to contaminants and soiling, the patient compartment's hygiene may be detrimental to the health of incoming patients and EMSPs. A requirement to make unclean surfaces distinguishable from clean is needed. Such a requirement will enhance the patient compartment's hygiene and cleanliness, and so the surface materials and their color should allow EMSPs to distinguish clean from soiled surfaces.
Response Message:	
-	No. 177-NFPA 1917-2013 [New Section after A.6.7.5]

# <u>A.6.8.1</u>

Handrails that minimize striking hazards should be installed over each walking path.

First Revision No. 25-NFPA 1917-2013 [ Section No. 6.8.2 ]				
6.8.2				
Exterior ac with a slip-	cess handrails An overhead handrail shall be constructed of or covered resistant (e.g., cross-hatched stainless steel, rubberized), noncorrosive rovided on the ceiling of the patient compartment.			
Ibmitter Information Verification				
Submitter Ful	I Name: [ Not Specified ]			
Organization:	[ Not Specified ]			
Street Addres	s:			
City:				
State:				
Zip:				
Submittal Date	e: Thu Oct 17 16:26:46 EDT 2013			
	tement			
Committee Statement:	tement The committee believes that the change in text in this requirement ado further clarification and addresses the submitted public inputs.			
Committee	The committee believes that the change in text in this requirement add			
Committee Statement: Response Message:	The committee believes that the change in text in this requirement add			
Committee Statement: Response Message: Public Input No Public Input No	The committee believes that the change in text in this requirement add further clarification and addresses the submitted public inputs. <u>b. 87-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>b. 88-NFPA 1917-2013 [Section No. 6.8.4]</u>			
Committee Statement: Response Message: Public Input No Public Input No	The committee believes that the change in text in this requirement add further clarification and addresses the submitted public inputs. <u>b. 87-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>b. 88-NFPA 1917-2013 [Section No. 6.8.4]</u> <u>b. 90-NFPA 1917-2013 [Section No. 6.8.5]</u>			
Committee Statement: Response Message: Public Input No Public Input No Public Input No	The committee believes that the change in text in this requirement add further clarification and addresses the submitted public inputs. <u>b. 87-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>b. 88-NFPA 1917-2013 [Section No. 6.8.4]</u> <u>b. 90-NFPA 1917-2013 [Section No. 6.8.5]</u> <u>b. 146-NFPA 1917-2013 [New Section after 6.8.6]</u>			
Committee Statement: Response Message: Public Input No Public Input No Public Input No Public Input No	The committee believes that the change in text in this requirement add further clarification and addresses the submitted public inputs. <u>b. 87-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>b. 88-NFPA 1917-2013 [Section No. 6.8.4]</u> <u>b. 90-NFPA 1917-2013 [Section No. 6.8.5]</u> <u>b. 146-NFPA 1917-2013 [New Section after 6.8.6]</u> <u>b. 180-NFPA 1917-2013 [Section No. 6.8.2]</u>			
Committee Statement: Response Message: Public Input No Public Input No Public Input No Public Input No Public Input No	The committee believes that the change in text in this requirement add further clarification and addresses the submitted public inputs. <u>b. 87-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>b. 88-NFPA 1917-2013 [Section No. 6.8.4]</u> <u>b. 90-NFPA 1917-2013 [Section No. 6.8.5]</u> <u>b. 146-NFPA 1917-2013 [New Section after 6.8.6]</u> <u>b. 180-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>b. 227-NFPA 1917-2013 [Section No. 6.8.4]</u>			
Committee Statement: Response Message: Public Input No Public Input No Public Input No Public Input No Public Input No Public Input No	The committee believes that the change in text in this requirement add further clarification and addresses the submitted public inputs. <u>0. 87-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>0. 88-NFPA 1917-2013 [Section No. 6.8.4]</u> <u>0. 90-NFPA 1917-2013 [Section No. 6.8.5]</u> <u>0. 146-NFPA 1917-2013 [New Section after 6.8.6]</u> <u>0. 180-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>0. 227-NFPA 1917-2013 [Section No. 6.8.4]</u> <u>0. 228-NFPA 1917-2013 [Section No. 6.8.5]</u>			
Committee Statement: Response Message: Public Input No Public Input No Public Input No Public Input No Public Input No Public Input No Public Input No	The committee believes that the change in text in this requirement add further clarification and addresses the submitted public inputs. <u>b. 87-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>b. 88-NFPA 1917-2013 [Section No. 6.8.4]</u> <u>b. 90-NFPA 1917-2013 [Section No. 6.8.5]</u> <u>c. 146-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>b. 180-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>c. 227-NFPA 1917-2013 [Section No. 6.8.4]</u> <u>b. 228-NFPA 1917-2013 [Section No. 6.8.5]</u> <u>c. 330-NFPA 1917-2013 [Section No. 6.8.2]</u>			
Committee Statement: Response Message: Public Input No Public Input No Public Input No Public Input No Public Input No Public Input No Public Input No	The committee believes that the change in text in this requirement add further clarification and addresses the submitted public inputs. <u>0. 87-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>0. 88-NFPA 1917-2013 [Section No. 6.8.4]</u> <u>0. 90-NFPA 1917-2013 [Section No. 6.8.5]</u> <u>0. 146-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>0. 227-NFPA 1917-2013 [Section No. 6.8.4]</u> <u>0. 228-NFPA 1917-2013 [Section No. 6.8.5]</u> <u>0. 330-NFPA 1917-2013 [Section No. 6.8.2]</u> <u>0. 331-NFPA 1917-2013 [Section No. 6.8.4]</u>			
Committee Statement: Response Message: Public Input Na Public Input Na	The committee believes that the change in text in this requirement add further clarification and addresses the submitted public inputs. <b>b</b> : 87-NFPA 1917-2013 [Section No. 6.8.2] <b>b</b> : 88-NFPA 1917-2013 [Section No. 6.8.4] <b>b</b> : 90-NFPA 1917-2013 [Section No. 6.8.5] <b>b</b> : 146-NFPA 1917-2013 [Section No. 6.8.2] <b>b</b> : 180-NFPA 1917-2013 [Section No. 6.8.4] <b>b</b> : 227-NFPA 1917-2013 [Section No. 6.8.4] <b>b</b> : 228-NFPA 1917-2013 [Section No. 6.8.5] <b>b</b> : 330-NFPA 1917-2013 [Section No. 6.8.2] <b>b</b> : 331-NFPA 1917-2013 [Section No. 6.8.4] <b>b</b> : 332-NFPA 1917-2013 [Section No. 6.8.5]			
Committee Statement: Response Message: Public Input Na Public Input Na	The committee believes that the change in text in this requirement add further clarification and addresses the submitted public inputs. b. 87-NFPA 1917-2013 [Section No. 6.8.2] b. 88-NFPA 1917-2013 [Section No. 6.8.4] b. 90-NFPA 1917-2013 [Section No. 6.8.5] c. 146-NFPA 1917-2013 [New Section after 6.8.6] b. 180-NFPA 1917-2013 [Section No. 6.8.2] b. 227-NFPA 1917-2013 [Section No. 6.8.4] b. 228-NFPA 1917-2013 [Section No. 6.8.5] c. 330-NFPA 1917-2013 [Section No. 6.8.4] b. 331-NFPA 1917-2013 [Section No. 6.8.4] b. 332-NFPA 1917-2013 [Section No. 6.8.5] c. 334-NFPA 1917-2013 [Section No. 6.8.6.2]			
Committee Statement: Response Message: Public Input Na Public Input Na	The committee believes that the change in text in this requirement add further clarification and addresses the submitted public inputs. <b>b</b> : 87-NFPA 1917-2013 [Section No. 6.8.2] <b>b</b> : 88-NFPA 1917-2013 [Section No. 6.8.4] <b>b</b> : 90-NFPA 1917-2013 [Section No. 6.8.5] <b>b</b> : 146-NFPA 1917-2013 [Section No. 6.8.2] <b>b</b> : 180-NFPA 1917-2013 [Section No. 6.8.4] <b>b</b> : 227-NFPA 1917-2013 [Section No. 6.8.4] <b>b</b> : 228-NFPA 1917-2013 [Section No. 6.8.5] <b>b</b> : 330-NFPA 1917-2013 [Section No. 6.8.2] <b>b</b> : 331-NFPA 1917-2013 [Section No. 6.8.4] <b>b</b> : 332-NFPA 1917-2013 [Section No. 6.8.5]			
Committee Statement: Response Message: Public Input No Public Input No	The committee believes that the change in text in this requirement add further clarification and addresses the submitted public inputs.			

First Revis	sion No. 33-NFPA 1917-2013 [ Section No. 6.9.1 ]
NFPA	
	compartment shall be equipped with at least one primary access door th minimum dimensions of 44 in. (1117 mm) wide by 46 in. (1168 mm)
6.9.2 Door handle inadvertent	es shall be designed and installed to protect against accidental or opening.
Submitter Infor	mation Verification
Submitter Full	Name: [ Not Specified ]
Organization:	
Street Address	
City:	
State:	
Zip:	
Submittal Date	e: Thu Oct 17 17:17:19 EDT 2013
Committee Stat	tement
Committee Statement:	The committee has added this to provide further clarification to the requirement on the minimum size opening. This is new text to be added above the existing 6.9.1
Response Message:	

FIRST REVISI	on No. 140-NFPA 1917-2013 [ Section No. 6.9.4 ]
	are open, the hinges <del>, latches, and door-checks</del> <u>and latches</u> shall not the access area.
Submitter Inform	ation Verification
Submitter Full N	ame: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 31 11:32:26 EDT 2013
committee State	ment
Committee	This change in text was made for clarification purposes so that door
Statement:	checks, shocks, or brackets do protrude into the doorway clear space.
Response Message:	
Public Input No.	<u>395-NFPA 1917-2013 [Section No. 6.9.4]</u>

First Revision	n No. 27-NFPA 1917-2013 [ Section No. 6.9.5 ]
<b>6.9.6</b> Doors shall have hardware or devices to prevent inadvertent closing. be equipped with a hold-open device.	
bmitter Informat	ion Verification
Submitter Full Nar	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 16:35:03 EDT 2013
mmittee Statem	ent
Committee Statement:	This change was made to clarify the item to be used to meet the requirement.
Response Messag	

6.9.9	
If a key lock is p identically keyed	rovided, all- <u>All</u> patient compartment entry door locks shall be d.
bmitter Informat	ion Verification
Submitter Full Nar	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 16:35:26 EDT 2013
ommittee Statem	ent

(161,300	Patient loading doors shall be equipped with not less than 250 in. <sup>2</sup>	
	mm <sup>2</sup> ) of safety glass area per door.	
Submitter Inf	ubmitter Information Verification	
Submitter F	ull Name: [ Not Specified ]	
Organizatio	n: [Not Specified]	
Street Addr	ess:	
City:		
State:		
Zip: Submittal D	ate: Thu Oct 31 11:35:11 EDT 2013	
Committee St	atement	
Committee Statement:	The patient needs to be unloaded as soon as the ambulance reaches the hospital. Therefore, in the event that there are obstacles outside the loading doors, then the ambulance occupants should be able to view them from inside and avoid packing next to them. Adequate safety glass also enables the condition of the traffic so as to take appropriate action with the car or the patient. The other doors on the ambulance are the driver compartment doors which are small in size, and are out of scope.	

6.9.12 Doors shall, loads on the with Section								
loads on the	<u>in additic</u>	n to mee	ting and	licable FN	11/99 et	andards	withsta	nd the
with Section	latches :							
<b>T</b> 11 0 0 10								
Table 6.9.12	Ecads \			Dulance D	<del>oor Late</del>	enes and	Hinges	
		Side	<del>: Door</del>			Rea	r Door	
		<del>isverse</del> oad		jitudinal .oad		<del>isverse</del> oad		<del>jitudinal</del> .oad
Latch or Hinge	lbf	N	lbf	N	lbf	N	lbf	N
Fully latched position	<del>2,500</del>	<del>11,120</del>	<del>2,500</del>	<del>11,120</del>	<del>2,500</del>	<del>11,120</del>	<del>2,500</del>	<del>11,120</del>
<del>Secondary</del> <del>latched</del> <del>position</del>	<del>1,500</del>	<del>6,672</del>	<del>1,500</del>	<del>6,672</del>	<del>1,500</del>	<del>6,672</del>	<del>1,500</del>	<del>6,672</del>
Hinge	<del>2,500</del>	<del>11,120</del>	<del>2,500</del>	<del>11,120</del>	<del>2,500</del>	<del>11,120</del>	<del>2,500</del>	<del>11,120</del>
Fail at th		striker(s)		<del>orocedure</del> or their po		attachme	nt to the	door or
mitter Inform	, 		tion					
ubmitter Full N								
rganization:	-	Iot Speci	-					
treet Address:								
ity:								
ity: tate:								
City: State:	Tł	u Oct 17	17:07:0	9 EDT 20	13			
Street Address: Dity: State: Zip:			47.07.0		10			

Public Input No. 91-NFPA 1917-2013 [Section No. 6.9.11] Public Input No. 333-NFPA 1917-2013 [Section No. 6.9.11] Public Input No. 453-NFPA 1917-2013 [Section No. 6.9.11]

6.10 Means of	F Escape Egress .
6.10.1	
Any interior are of escape egres 6.10.2	a to be occupied by personnel shall have a minimum of two means <u>ss</u> .
	e <del>scape</del> egress_opening shall be a minimum of <del>24</del> <u>30</u> in. <del>× 24 in.</del> 5_in. ( <del>610 <u>1168</u> mm × 610 mm</del> ).
omitter Informa	tion Verification
omitter Informat	tion Verification me: [Not Specified ]
omitter Informat Submitter Full Nat Organization:	tion Verification
omitter Informat Submitter Full Nat Organization: Street Address:	tion Verification me: [Not Specified ]
omitter Informat Submitter Full Nat Organization:	tion Verification me: [Not Specified ]
Submitter Information Submitter Full Nation Organization: Street Address: City:	tion Verification me: [Not Specified ]
omitter Informat Submitter Full Nat Organization: Street Address: City: State:	tion Verification me: [Not Specified ] [Not Specified ]

6.12.1	
Doors shall prov	vide secure closure properties. <u>All exterior compartment doors shall</u> th locks that hold the door in a closed position.
Trave lateries wi	thocks that hold the door in a closed position.
bmitter Informat	ion Verification
Submitter Full Nar	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 18:52:00 EDT 2013
mmittee Statem	ent
Committee	This change was made to clarify the item to be used to meet the
Statement:	requirement.

mmittee Statem	This change was made to clarify the item to be used to meet the
Submittal Date:	Thu Oct 17 18:59:49 EDT 2013
Zip:	
State:	
City:	
Street Address:	
Submitter Full Na Organization:	me: [Not Specified ] [Not Specified ]
	tion Verification
All <u>The interior</u> be automatical requirements o	of all_exterior compartments greater than 4 ft <sup>3</sup> (0.11 <u>1.2</u> m <sup>3</sup> ) shall y illuminated when <u>a door is_</u> opened and shall meet the f 7.11.7.1.
6.12.5	

_	
First Revision	No. 37-NFPA 1917-2013 [ Section No. 6.12.6 ]
	naterial, such as carpeting, fabric, or inside/outside plastic-type esists cleaning and decontamination shall not be used. <u>All surfaces</u> orbent.
Submitter Informat	ion Verification
Submitter Full Nan	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 19:01:51 EDT 2013
Committee Stateme	ent
Committee Statement:	The committee has made this change to further clarifiy the requirement.
Response Message	e:
Public Input No. 489	9-NFPA 1917-2013 [Section No. 6.12.6]

6.13.2	
	ion of cot retention hardware, the floor shall be unencumbered free in the door(s) access and work area.
ubmitter Informat	ion Verification
Submitter Full Nar	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Oct 29 14:31:19 EDT 2013
ommittee Statem	ent
Committee Statement:	This change was made to clarify the item to be used to meet the requirement.
Response Messag	e:
Public Input No. 94	-NFPA 1917-2013 [Section No. 6.13.2]
Public Input No. 23	6-NFPA 1917-2013 [Section No. 6.13.2]
	3-NFPA 1917-2013 [Section No. 6.13.2]
Public Input No. 303	
	6-NFPA 1917-2013 [Section No. 6.13.2]

First Revision	No. 39-NFPA 1917-2013 [ Section No. 6.13.6 ]
	e has a modular body, the subfloor shall be designed to prevent n <u>. <del>and shall include a heat shield.</del></u>
ubmitter Informat	ion Verification
Submitter Full Nan	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 19:18:58 EDT 2013
ommittee Statem	ent
Committee Statement:	the committee deleted this text as they believe it was a vague reference.
Response Messag	· ·

First Revisio	n No. 40-NFPA 1917-2013 [ Section No. 6.14.1 ]
PA	
6.14.1	
Floor covering s	shall be nonpermeable, <u>and</u> seamless <u>.</u> , and easily cleaned.
bmitter Informat	tion Verification
Submitter Full Na	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 19:31:39 EDT 2013
mmittee Statem	ent
Committee	The committee has made this change in order to provide clearer
Statement:	requirements.
	e:

First Revisio	n No. 191-NFPA 1917-2014 [ Section No. 6.14.2 ]
PA	
6.14.2 The floor cover exposed floor.	ring shall cover the entire length and width of the compartment's
bmitter Informa	tion Verification
Submitter Full Na	me: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Mon Jan 06 09:57:56 EST 2014
mmittee Staten	nent
Committee	Move associated annex material to 6.13.1 as it was incorrectly
Statement:	numbered in the existing standard.
Response Message:	
Public Input No. 1	78-NFPA 1917-2013 [Section No. 6.14.2]

	ior of the patient compartment shall provide enclosed storage <del>cabinetry, nent-</del> space. <del>, and shelf space.</del>
•	ormation Verification
Submitter F	ull Name: [ Not Specified ]
Organizatio	
Street Addre	
City:	
State:	
Zip:	
Submittal D	ate: Tue Oct 29 14:41:06 EDT 2013
ommittee St	atement
Committee	Evolving design considerations may not include cabinets or compartment
Statement:	space. As written, the language suggests cabinets and compartments are required. The designation of separate types of space is unnecessary. There is also no apparent justification for specifying or restricting the type of storage space provided.
Response Message:	
Public Input	No. 98-NFPA 1917-2013 [Section No. 6.16.1]
Public Input	No. 338-NFPA 1917-2013 [Section No. 6.16.1]
Public Input	No. 458-NFPA 1917-2013 [Section No. 6.16.1]

First Revis	sion No. 188-NFPA 1917-2013 [ New Section after 6.16.6 ]
critical equip in. (678 mm seated and <u>6.16.8</u> The securin	age cabinets, shelves, and drawers designed for storing common and pment or supplies shall be within a maximum functional reach of 26.7 a) to the EMSPs with height as short as 59.3 in. (1506 mm) while restrained. ag mechanism of those interior storage cabinets and drawers, if hall be capable of being accessed under the same reach condition.
Submitter Infor	mation Verification
Submitter Full Organization: Street Address City: State: Zip:	Name: [ Not Specified ] [ Not Specified ] 5:
Submittal Date	Tue Dec 17 17:31:26 EST 2013
Committee State	ement
Statement: the loc acc me fev eni als 14 Ge	nce common and critical equipment/supplies are more likely to be used by e EMSPs or are more important or critical for certain patients, their storage cations should be given higher priority for EMSPs' reachability. By commodating the functional required for these tools and their securing echanisms to a shorter demographic with a smaller reach, EMSPs will have wer difficulties in reaching the common and/or critical equipment. This will hance their safety by allowing them to stay restrained more often and will so increase working efficiency. The human factors practices in MIL-STD 72G, Design Criteria Standard Human Engineering (January 2012), have povisions for functional reach. Table B-I, Standing Body Dimensions – eneral Forces, of MIL-STD 1472G addresses functional reachability ranges of different size demographics.
Response Message:	
-	. 148-NFPA 1917-2013 [New Section after 6.16.6]

First Revisio	n No. 43-NFPA 1917-2013 [ Section No. 6.17.2 ]
6.17.2 All hangers or possible with t	supports for equipment and devices shall be mounted as flush as ne surrounding surface.
ubmitter Informa	tion Verification
Submitter Full Na	me: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 20:21:16 EDT 2013
ommittee Staten	nent
Committee Statement:	This is not measurable and impractical and the committee has chosen to delete the requirement.
Response Message:	
-	97-NFPA 1917-2013 [Section No. 6.17.2]

First Re	vision No. 193-NFPA 1917-2014 [ Section No. 6.17.3 ]
6.17.2*	
	h of the entire patient compartment and exterior storage, including interiors e cabinets, shall be as follows:
(1) Imp	ervious to soap, water, body fluids, and disinfectants
(2) Mild	dew resistant
(3) Fire	e resistant in compliance with <del>FMVSS</del> <u>49 CFR 571, FMVSS No.</u> 302
(4) Able	e to be cleaned and disinfected
Supplementa	I Information
<b><u>File N</u></b> FR_193_A.6	
Submitter Info	ormation Verification
Submitter F	ull Name: [ Not Specified ]
Organizatio	n: [Not Specified]
Street Addre	ess:
City:	
State:	
Zip:	
Submittal D	ate: Mon Jan 06 10:14:07 EST 2014
Committee St	atement
Committee Statement:	Please add the attached document as new annex material for 6.17.3
Statement.	The interior of the patient compartment needs to be kept clean. When surfaces get exposed to contaminants and soiling, the patient compartment's hygiene may be detrimental to the health of incoming patients and EMSPs. A requirement to make unclean surfaces distinguishable from clean is needed. Such a requirement will enhance the patient compartment's hygiene and cleanliness, and so the surface materials and their color should allow EMSPs to distinguish clean from soiled surfaces.
Response Message:	
Public Input	No. 170-NFPA 1917-2013 [New Section after A.6.16]

# A.6.17.2

Surface materials and their colors used in the patient compartment should allow EMSPs to distinguish clean surfaces from soiled surfaces.

First Revision No. 44-NFPA 1917-2013 [New Section after 6.17.5 ] <u>6.17.5</u> <u>Countertop horizontal surfaces shall be surrounded by a lip of not less than <sup>1</sup>/<sub>2</sub> in. (12 mm) in height.</u>		
Countertop horizontal surfaces shall be surrounded by a lip of not less than $\frac{1}{2}$		
Submitter Information Verification		
Submitter Full Name: [ Not Specified ]		
Organization: [Not Specified]		
Street Address:		
City:		
State:		
Zip:		
Submittal Date: Thu Oct 17 20:28:37 EDT 2013		
committee Statement		
CommitteeThe committee has added this new text for further clarification. Add as new section of text after the existing 6.17.5		
Response Message:		
Public Input No. 165-NFPA 1917-2013 [New Section after 6.17.5]		

_	
First Revision	n No. 45-NFPA 1917-2013 [ Section No. 6.18.1 ]
	Supplies and Equipment Storage Mounting. es, tools, and <del>so forth, other equipment</del> shall be stored in enclosed
	or fastened to secure them during vehicle motion.
Submitter Informat	tion Verification
Submitter Full Nar	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 17 20:41:27 EDT 2013
Committee Statem	ent
Committee	This change was made as "and so forth" should not be in a
Statement:	specification/standard.
Response Message:	
Public Input No. 24	0-NFPA 1917-2013 [Section No. 6.18.1]

in.

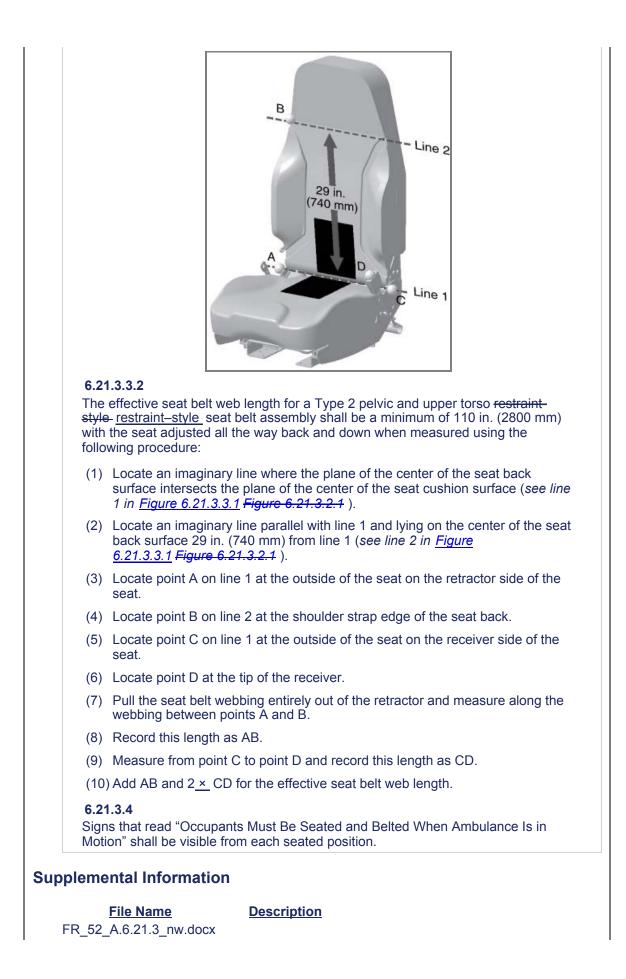
L₩JFIrst Revisio NFPA	on No. 129-NFPA 1917-2013 [ Section No. 6.18.3 ]
6.16.9 Each patient c load capacity.	ompartment cabinet shall be permanently labeled with its maximum
Submitter Informa	ation Verification
Submitter Full Na	me: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 24 13:37:44 EDT 2013
Committee Staten	nent
Committee Statement:	This text is in the incorrect place and needs to be moved to just after the existing 6.16.6.
Response Message:	
	11-NFPA 1917-2013 [Section No. 6.18.3]
	38-NFPA 1917-2013 [Section No. 6.18.3]
	70-NFPA 1917-2013 [Section No. 6.18.3]
	<u>05-NFPA 1917-2013 [Section No. 6.18.3]</u> 41-NFPA 1917-2013 [Section No. 6.18.3]
	61-NFPA 1917-2013 [Section No. 6.18.3]

Fir Fir	st Revision No. 48-NFPA 1917-2013 [ Section No. 6.21.1 ]
6	.21.1 Seat Integrity.
A # <i>R</i> <u>J:</u> <i>R</i>	ny seat mounted on an adjustable seat device shall be dynamically tested along be direction of the adjustment using the crash pulse in SAE J2917, Occupant estraint and Equipment Mounting Integrity — Frontal Impact System-Level mbulance Patient Compartment - in a patient compartment shall comply with SAE 3026, Ambulance Patient Compartment Seating Integrity and Occupant estraint -
be	ne test shall be conducted with the seat oriented in the direction of adjustment for oth the forward facing and rear facing directions. .21.1.2
- Di ac	uring and after the test, the seat shall remain securely attached to the sjustment device. .21.1.3
st	eat belt anchorages on side facing seats shall be tested in accordance with the rength requirements of FMVSS 210. .21.2*
	eat belt anchorages on side facing seats shall be tested in accordance with the render the render to the render the render to th
ubmitt	er Information Verification
Subm	nitter Full Name: [ Not Specified ]
Orgai	nization: [Not Specified]
Stree	t Address:
City:	
State	
Zip:	
	hittal Date: Fri Oct 18 08:28:09 EDT 2013
•	
ommit	tee Statement
Comn Stater	
Respo Messa	
<u>Public</u>	<u>c Input No. 112-NFPA 1917-2013 [Section No. 6.21.1]</u>
	c Input No. 273-NFPA 1917-2013 [Section No. 6.21.1.1]
	c Input No. 274-NFPA 1917-2013 [New Section after 6.21.1.1]
Public Public	
Public Public Public	c Input No. 275-NFPA 1917-2013 [Section No. 6.21.1.2]
Public Public Public Public	c Input No. 276-NFPA 1917-2013 [New Section after 6.21.1.2]
Public Public Public Public Public	<u>c Input No. 276-NFPA 1917-2013 [New Section after 6.21.1.2]</u> c Input No. 306-NFPA 1917-2013 [Section No. 6.21.1]
Public Public Public Public Public Public	c Input No. 276-NFPA 1917-2013 [New Section after 6.21.1.2]

in.

First Revis	sion No. 49-NFPA 1917-2013 [ Section No. 6.21.2 ]
	CBA Storage. s shall not be stored in the seat backs of seats in the patient ht.
Submitter Inforr	nation Verification
Submitter Full	Name: [ Not Specified ]
Organization:	[Not Specified ]
Street Address	:
City:	
State:	
Zip:	
Submittal Date	: Fri Oct 18 08:50:21 EDT 2013
Committee State	ement
Committee Statement:	The committee has chosen to delete this as they have developed new text in FR 50 to address this along with moving the associated annex material as part of FR 50.
Response Message:	

A	
	1.3* Seat Belts Occupant Crash Protection .
Eac prot	h designated seating position shall be provided with <del>a seat belt</del> <u>occupant crash</u> ection .
<u>lf th</u> with	1.3.2         e occupant crash protection is a seat belt system, the seat belt shall comply         6.21.3.3.1         and       6.21.3.3.2
Am acc	<b>1.3.3</b> bulances above 19,500 lb (8845 kg) GVWR shall provide seat belts in ordance with <u>6.21.3.3.1 <del>6.21.3.2.1</del> and <u>6.21.3.3.2 <del>6.21.3.2.2</del> in the cab</u>. <b>1.3.3.1</b></u>
The mini whe	effective seat belt web length for a Type 1 lap belt for pelvic restraint shall be mum of 60 in. (1524 mm) with the seat adjusted all the way back and down n measured using the following procedure and referring to <u>Figure</u> <u>.3.3.1 Figure 6.21.3.2.1</u> :
(1)	Locate an imaginary line where the plane of the center of the seat back surface intersects the plane of the center of the seat cushion surface (see line 1 in Figure 6.21.3.3.1 Figure 6.21.3.2.1).
(2)	Locate point A on line 1 at the outside of the seat on the retractor side of the seat.
(3)	Locate point C on line 1 at the outside of the seat on the receiver side of the seat.
(4)	Locate point D at the tip of the receiver.
(5)	Pull the seat belt webbing entirely out of the retractor and measure along the webbing between point A and the male seat belt buckle.
(6)	Record this length as AD.
(7)	Measure from point C to point D and record this length as CD.
1	Add AD and CD for the effective seat belt web length.



1	
Submitter Inf	ormation Verification
Submitter F Organizatio	ull Name: [ Not Specified ] n: [ Not Specified ]
Street Addr	
State: Zip:	
Submittal D	Pate: Fri Oct 18 09:06:44 EDT 2013
Committee St	tatement
	The committee believes that these changes provide further clarification. Also please add the attached document as new annex material associated with 6.21.3
	Restraint systems have the potential to become unsanitary or even contaminated. Consequently, restraint systems need to have some sort of mechanism to enable them to be easily sanitized. Keeping the patient compartment hygienic and clean is important for avoiding the spread of disease or unsanitary work practices, and this goal can be further met by using restraint systems that should be able to become fully exposed for sanitation and cleaning.
	It is essential for the occupants to be able to quickly and easily get out of the patient compartment seats. Allowing the occupants to unfasten their restraint system with only one motion or click using only one hand will help them quickly exit their seat and the patient compartment. It is important for the occupants to be able to quickly and easily fasten their restraint systems when the ambulance is in motion or will soon be in motion. The EMSP will want to ingress and fasten their seat's restraint system as soon as possible. This will in turn help them be able to provide healthcare to the patient more quickly. Requiring that the restraint system's fastening mechanism only needs minimal steps to operate will allow them more time to spend on the patient. Restraint systems need to adhere to standard human factors practices. With a more ergonomic design, EMSPs will be able to practice their healthcare skills more safely and also perform work activities more efficiently. They need to avoid pressure points and sensitive body areas.
Response Message:	
Public Input	No. 96-NFPA 1917-2013 [Section No. 6.21.3]
Public Input	No. 171-NFPA 1917-2013 [New Section after A.6.21.2]
	No. 314-NFPA 1917-2013 [New Section after A.6.21.3.1]
Public Input	No. 496-NFPA 1917-2013 [Section No. 6.21.3.2]

#### A.6.21.3

Restraint systems should be as follows:

- (1) The restraint system's unfastening mechanism should require only one motion or click with only one hand to operate.
- (2) The restraint system's fastening mechanism should require minimal steps to operate.
- (3) The restraint system should be adjustable to prevent pressure on the throat or other sensitive areas.
- (4) The restraint system should be fully exposable for sanitation and cleaning.

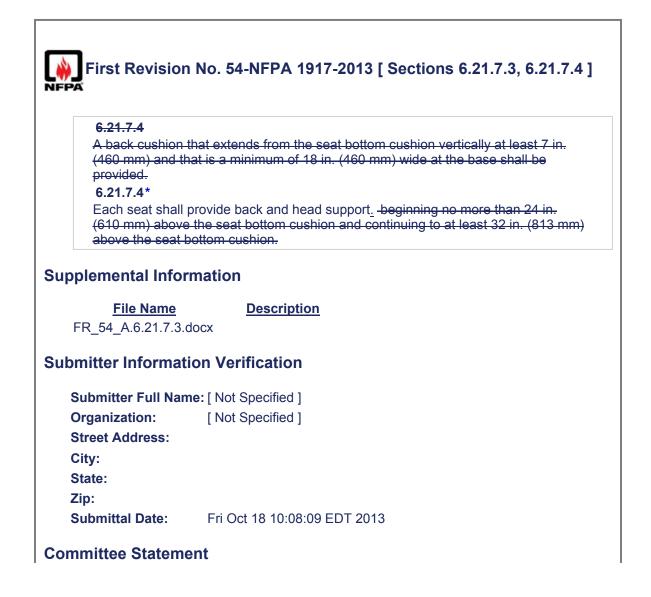
First Re	vision No. 53-NFPA 1917-2013 [ New Section after 6.21.7 ]
<u>6.21.7.1</u> <u>The seat</u> from the	bottom cushion height shall be a maximum of 21 in. (533 mm) measured floor.
Submitter Info	ormation Verification
Submitter F	ull Name: [ Not Specified ]
Organizatio	n: [Not Specified]
Street Addre	ess:
City:	
State:	
Zip:	
Submittal Da	ate: Fri Oct 18 09:55:57 EDT 2013
Committee St	atement
Committee Statement:	The seat height should accommodate the different height s of the occupants for comfortable seating. The human factors practices in MIL-STD 1472G has provisions for an appropriate seating height for work that involves seated operations. Requirement 5.10.3.2.7 of MIL-STD 1472G addresses the seat heights. In addition, an asterisk has been added to correspond with additional material provided in annex.
Response Message:	
Public Input	No. 108-NFPA 1917-2013 [New Section after 6.21.7]

Г

First Revision No. 195-NFPA 1917-2014 [ Section No. 6.21.7.2 ]			
	om cushions shall be between 15 in. <del>and 19</del> <u>(380 mm) and 19</u> in. ( <del>380</del> 483 mm) from the front of the cushion to the face of the seat back.		
Supplemental	Information		
	NameDescription21.7.2_nw.docx		
Submitter Info	rmation Verification		
Organization Street Addres City: State: Zip:	State:		
Committee Sta	atement		
Statement:	Please add the attached document as new annex text for this section. The seating in the patient compartment needs to conform to different heights and sizes of occupants. The seating depth should be able to accommodate individuals with height as short as 59.3 in. (1506 mm), allowing them to sit with ease and be able to perform work activities. The human factors practices in MIL-STD 1472G, Design Criteria Standard Human Engineering (January 2012), addresses the seating depths required for work that involves seated operations. Section 5.10.3.2.4, Seating, of MIL-STD 1472G addresses the seating dimensions.		
Response Message:			
-	Io. 292-NFPA 1917-2013 [New Section after A.6.21.3.1]		

# A.6.21.7.2

Purchasers should consider that seats deeper than 15.9 in. (404 mm) might not accommodate 5th percentile females.



**Committee** The committee believes that these changes better meets the intent of what **Statement:** the committee is trying to accomplish.

Seats need to adhere to standard human factors practices that preclude short -term or long-term musculoskeletal injuries. With a more ergonomic design, EMS providers will be allowed to perform work activities more efficiently with less risk of injury. An ergonomic, appropriately wide backrest will give EMSP an extra provision to comfortably stay in a seated position. Although minimum back support is identified at 18 in, 20 in provides support for a large EMSP. The human factors practices in MIL-STD 1472G, Design Criteria Standard Human Engineering (January 2012), have provisions for the seat backrest. Requirement 5.6.2.1, Dimensions and Clearance, of MIL-STD 1472G, Design Criteria Standard Human Engineering (January 2012), addresses the seating backrest widths.

Seats need to adhere to standard human factors practices. With a more ergonomic design, EMS providers will be allowed to perform work activities more efficiently. An ergonomic, appropriately-sized backrest and headrest that accommodate a wide range of EMSPs and patients heights will give them an extra support to comfortably stay in a seated position. The human factors practices in MIL-STD 1472G, Design Criteria Standard Human Engineering (January 2012) Table B-I, Standing Body Dimensions –General Forces, of MIL-STD 1472, have provisions for anthropometrics that are relevant to the seat backrest and headrest. In addition, a lumbar support will give EMS workers an extra provision to comfortably stay in a seated position. The human factors practices in MIL-STD 1472G, Design Criteria Standard Human Engineering (January 2012), have provisions for supporting seat backrest and lumbar supports, targeted for work that involves seated operations. Requirement 5.10.3.2.8 in this standard addresses the vehicle seating backrests.

Please add the attached text as new annex material for this section.

#### Response Message:

 Public Input No. 243-NFPA 1917-2013 [Section No. 6.21.7.3]

 Public Input No. 244-NFPA 1917-2013 [Section No. 6.21.7.4]

 Public Input No. 290-NFPA 1917-2013 [New Section after A.6.21.3.1]

 Public Input No. 291-NFPA 1917-2013 [New Section after A.6.21.3.1]

 Public Input No. 296-NFPA 1917-2013 [Section No. 6.21.7.4]

 Public Input No. 296-NFPA 1917-2013 [Section No. 6.21.7.4]

 Public Input No. 297-NFPA 1917-2013 [Section No. 6.21.7.3]

 Public Input No. 497-NFPA 1917-2013 [Section No. 6.21.7.3]

# A.6.21.7.3

Back support should be at least 18 in. (457 mm) in width. Back and head support should accommodate occupants with heights that range from 59.3 in. (1506 mm) to 74.3 in. (1887 mm). In addition, the back support should include lumbar support.

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First Revision	No. 55-NFPA 1917-2013 [ Section No. 6.21.8.1 ]
being adjusted s	tient care seat is at the patient torso position, it shall be capable of such that the <del>nearest edge of the</del> -seat bottom cushion is within 6 in. nearest edge of the-patient cot.
ubmitter Informat	ion Verification
Submitter Full Nan	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Fri Oct 18 10:24:46 EDT 2013
ommittee Statemo	ent
Committee Statement:	The committee believes that these changes provide further clarification.
Response Message	e:
Public Input No. 24	5-NFPA 1917-2013 [Section No. 6.21.8.1]

First Rovi	sion No. 172-NFPA 1917-2013 [ Section No. 6.21.9.1 ]
	Sion No. 172-N FA 1317-2013 [ Section No. 0.21.3.1 ]
6.21.9.1 Any seat w	with a built-in system suitable for transporting a child or an infant shall
	ented designed for operation in a side-facing forward-facing or rear-
facing dire	ction during transport.
Submitter Infor	mation Verification
Submitter mor	
Submitter Ful	I Name: [ Not Specified ]
Organization:	[ Not Specified ]
Street Addres	s:
City:	
State:	
Zip:	
Submittal Dat	e: Tue Dec 17 11:24:42 EST 2013
Committee Sta	tement
Committee	Improve the grammar by changing from a negative to a positive
Statement:	statement. Change this to a design requirement as this is a standard for ambulance construction rather than ambulance operation.
Response	
Message:	
Public Input No	o. 499-NFPA 1917-2013 [Section No. 6.21.9.1]

First Revisio	on No. 56-NFPA 1917-2013 [ New Section after 6.21.10.3 ]
<u>6.21.10.3.1</u> The audible po 571, FMVSS N	ortion of the warning system shall comply at a minimum with 49 CFR lo. 208.
Submitter Informa	tion Verification
Submitter Full Na	me: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Fri Oct 18 10:56:29 EDT 2013
Committee Staten	nent
Committee Statement:	The committee believes that provides the highest level of safety regarding audible warning systems.
Response Message:	
· · ·	15-NFPA 1917-2013 [Section No. 6.21.10]
	46-NFPA 1917-2013 [Section No. 6.21.10]
	45-NFPA 1917-2013 [Section No. 6.21.10]
Public Input No. 4	65-NFPA 1917-2013 [Section No. 6.21.10]

First Revisio	on No. 57-NFPA 1917-2013 [ Sections 6.22.1, 6.22.2 ]
NFPA	
6.22.1	
Each patient c greater of the retention force directions. Pat	ot retention system shall not fail or release when subjected to the cot manufacturer's recommended retention force or a minimum of 2200 lb (998 kg) applied in the longitudinal, lateral, and vertical ient cots shall be mounted in compliance with SAE J3027. ter Integrity, Retention, and Patient Restraint <u>.</u>
retention device	the cot retention system shall be validated by testing a sample the using a substantially similar ambulance or body structure in th Section 9.4 -
	tion Verification
Submitter Informa	ation verification
Submitter Full Na	ame: [ Not Specified ]
Organization:	[Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Fri Oct 18 11:00:39 EDT 2013
Committee Staten	nent
Committee Statement:	the committee has made this change as they believe it provides a higher level of protection.
Response Message:	
Public Input No. 1	<u>16-NFPA 1917-2013 [Section No. 6.22]</u>
	81-NFPA 1917-2013 [Section No. 6.22]
	47-NFPA 1917-2013 [Section No. 6.22.1]
	78-NFPA 1917-2013 [Section No. 6.22.1]
	79-NFPA 1917-2013 [New Section after 6.22.1]
	80-NFPA 1917-2013 [Section No. 6.22.2]
	<u>46-NFPA 1917-2013 [Section No. 6.22]</u> 66-NFPA 1917-2013 [Section No. 6.22]

First Revision	No. 58-NFPA 1917-2013 [ Sections 6.23.3.1, 6.23.3.2,
6.23.3.3, 6.23.3.4 ]	
	em(s) in the patient compartments shall provide a change of the vehicle stationary. <u>A patient care compartment air exhaust fan</u> d.
Ventilation shall <del>compartments</del> <u>c</u> <b>6.23.3.3</b>	be separately controlled within the cab and <u>the</u> patient <u>ompartment</u> .
Fresh air intakes exhaust outlet.	s shall be provided and shall not be located near the engine
<del>6.23.3.4</del> <del>A fresh air exha</del> i	ust fan shall be provided.
Submitter Informat	ion Verification
Submitter Full Nan	<b>1e:</b> [ Not Specified ]
Organization:	[Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Fri Oct 18 11:23:29 EDT 2013
Committee Stateme	ent
Committee Statement:	The committee believes these changes provide further clarification.
Response Message	e:
Public Input No. 500	0-NFPA 1917-2013 [Section No. 6.23.3.1]
L	

First Rev	vision No. 200-NFPA 1917-2014 [ Section No. 6.25.1 ]
	lective stripe or combination of stripes shall be affixed to the ambulance in ing proportions:
(1) 25 p	ercent of the width length of the front each of the ambulance visible cab surfaces when approached from the front each side
	5 percent of the <del>overall ambulance length visible</del> <u>patient compartment</u> <u>surfaces</u> when approached from each side
ubmitter Info	ermation Verification
Submitter Fu	III Name: [ Not Specified ]
Organization	
Street Addre	SS:
City:	
State:	
Zip:	
Submittal Da	Mon Jan 06 12:03:30 EST 2014
ommittee Sta	atement
	These changes are being made as the back of an ambulance is configured differently than a fire truck. The AHJ has the authority to determine the design of all safety markings on the vehicle. Science has established that chevrons are not the only design that provides conspicuity. The intended desire in the existing standard to be consistent between fire & EMS may actually conflict with local culture and preferences. Scientific research and the FEMA study on conspicuity does not dictate one design or color pair, and the color red is highly inconspicuous during daylight and nighttime hours.
Response Message:	
	No. 117-NFPA 1917-2013 [Section No. 6.25]
	No. 308-NFPA 1917-2013 [Section No. 6.25.1]
	No. 347-NFPA 1917-2013 [Sections 6.25.1, 6.25.2, 6.25.3]
Public Input N	No. 467-NFPA 1917-2013 [Sections 6.25.1, 6.25.2, 6.25.3]

be or combination of stripes shall be a minimum of $4.6$ in. ( $100.152$ mm) in tical width.
ormation Verification
Full Name: [ Not Specified ]
n: [Not Specified ]
ress:
Date: Mon Jan 06 12:11:09 EST 2014
tatement
These changes are being made as the back of an ambulance is configured differently than a fire truck. The AHJ has the authority to determine the design of all safety markings on the vehicle. Science has established that chevrons are not the only design that provides conspicuity. The intended desire in the existing standard to be consistent between fire & EMS may actually conflict with local culture and preferences. Scientific research and the FEMA study on conspicuity does not dictate one design or color pair, and the

E

6.25.3	in (100,152, mm) wide string or combination of strings shall be normitted
to be inte	in. ( <del>100</del> <u>152</u> mm) wide stripe or combination of stripes shall be permitted errupted by objects (e.g., receptacles, cracks between slats in roll- up provided the full stripe is conspicuous as the ambulance is approached.
Submitter Inf	ormation Verification
Submitter F	ull Name: [ Not Specified ]
Organizatio	n: [Not Specified]
Street Addr	ess:
City:	
State:	
Zip:	
Submittal D	ate: Mon Jan 06 12:12:15 EST 2014
committee S	tatement
Committee Statement:	These changes are being made as the back of an ambulance is configured differently than a fire truck. The AHJ has the authority to determine the design of all safety markings on the vehicle. Science has established that chevrons are not the only design that provides conspicuity. The intended desire in the existing standard to be consistent between fire & EMS may actually conflict with local culture and preferences. Scientific research and the FEMA study on conspicuity does not dictate one design or color pair, and the color red is highly inconspicuous during daylight and nighttime hours.

First Revisior	No. 199-NFPA 1917-2014 [ Section No. 6.25.4 ]
FPA	
material if the de	n shall be permitted to replace all or part of the required striping esign or combination thereof covers at least the same perimeter ed by <u>6.25.1</u> 6.28.1.
ubmitter Informat	ion Verification
Submitter Full Nan	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Mon Jan 06 11:59:13 EST 2014
ommittee Stateme	ent
Committee Statem	ent: This change was made to correct the numbering.
Response Message	9:
Public Input No. 250	)-NFPA 1917-2013 [Section No. 6.25.4]

Excluding ar	ny Sub-Sections] ]
ambulan	50 percent of the rear-facing vertical surfaces, visible from the rear of the ce, shall be equipped with retroreflective <del>striping in a chevron pattern</del> lownward and away from the centerline of the vehicle at an angle of 45 material.
upplementa	I Information
<b>File N</b> FR_203_A.6	
ubmitter Inf	ormation Verification
Submitter F	ull Name: [ Not Specified ]
Organizatio Street Addre	n: [Not Specified]
City:	
State:	
Zip:	
Submittal D	ate: Mon Jan 06 12:13:45 EST 2014
ommittee St	atement
Committee Statement:	These changes are being made as the back of an ambulance is configured differently than a fire truck. The AHJ has the authority to determine the desig of all safety markings on the vehicle. Science has established that chevrons are not the only design that provides conspicuity. The intended desire in the existing standard to be consistent between fire & EMS may actually conflict with local culture and preferences. Scientific research and the FEMA study o conspicuity does not dictate one design or color pair, and the color red is highly inconspicuous during daylight and nighttime hours. It also allows for more flexibility by the AHJ.
	Add the attached document as new annex material for this section.
Response Message:	
	No. 207-NFPA 1917-2013 [Section No. 6.25.6]
	No. 252-NFPA 1917-2013 [Section No. 6.25.6]
	No. 311-NFPA 1917-2013 [Section No. 6.25.6]
Public Input	<u>No. 348-NFPA 1917-2013 [Section No. 6.25.6]</u> No. 468-NFPA 1917-2013 [Section No. 6.25.6]

## A.6.25.6

Retroreflective material included in the calculation includes any combination of graphics, lettering, a chevron pattern sloping downward and away from the centerline of the vehicle at an angle of 45 degrees, or Battenburg markings.

	ere chevrons are used, each stripe in the chevron shall be a single color
	ng between red and either yellow, fluorescent yellow, or fluorescent yellow- o high-contrast colors.
<u> </u>	
Submitter Inf	ormation Verification
Submitter F	ull Name: [ Not Specified ]
Organizatio	
Street Addr	
City:	
State:	
Zip:	
Submittal D	ate: Mon Jan 06 12:19:12 EST 2014
Committee S	tatement
	These changes are being made as the back of an ambulance is configured differently than a fire truck. The AHJ has the authority to determine the design of all safety markings on the vehicle. Science has established that chevrons are not the only design that provides conspicuity. The intended desire in the existing standard to be consistent between fire & EMS may actually conflict with local culture and preferences. Scientific research and the FEMA study or conspicuity does not dictate one design or color pair, and the color red is highly inconspicuous during daylight and nighttime hours. It also allows for more flexibility by the AHJ.
Response Message:	
•	No. 6-NFPA 1917-2013 [Section No. 6.25.6.1]
	No. 251-NFPA 1917-2013 [Section No. 6.25.6.1]

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🐞 First Re	vision No. 205-NFPA 1917-2014 [ Section No. 6.25.6.2 ]
6.25.6.2 Fach str	pe shall be 6 in. ( <del>150</del> 152 mm) in width.
<u>6.25.6.3</u>	
	attenburg markings are used, each box in the Battenburg markings shall
be 144 ir	$1^2$ (92,903 mm <sup>2</sup> ).
Submitter Inf	ormation Verification
Submitter F	ull Name: [ Not Specified ]
Organizatio	n: [Not Specified]
Street Addr	ess:
City:	
State:	
Zip:	
Submittal D	ate: Mon Jan 06 12:20:58 EST 2014
Committee S	tatement
	This change is editorial in nature and these changes are being made as the back of an ambulance is configured differently than a fire truck. The AHJ has the authority to determine the design of all safety markings on the vehicle. Science has established that chevrons are not the only design that provides conspicuity. The intended desire in the existing standard to be consistent between fire & EMS may actually conflict with local culture and preferences. Scientific research and the FEMA study on conspicuity does not dictate one design or color pair, and the color red is highly inconspicuous during daylight and nighttime hours. It also allows for more flexibility by the AHJ.
Response Message:	
Public Input	No. 253-NFPA 1917-2013 [Section No. 6.25.6.2]

First Re	First Revision No. 194-NFPA 1917-2014 [ Section No. 6.28.3 ]	
6.28.3*	Global FR-1 Hide Deleted	
	Global FR-1 Hide Deleted En medical gas system controls shall be accessible from inside the vehicle.	
Supplementa	I Information	
	Name         Description           6.28.3_nw.docx	
Submitter Inf	ormation Verification	
Submitter F Organizatio Street Addr City: State: Zip: Submittal D	ess:	
Committee St	tatement	
Committee Statement:	Please add the attached document as new annex material for this section. Providing easy access to essential devices, equipment, tools, or ports in the patient compartment can increase the efficiency of the working environment, and result in less time that the EMSP has to spend for obtaining their work needs. 02 and suction devices and ports are critically important to patient care and frequently used. Difficult reaches behind the EMSP can also increase the risk of musculoskeletal injuries. Easing access to these two devices should be a requirement, avoiding the EMSPs from having to reach behind themselves or bypass a structure and/or piece of equipment to access the ports.	
Response Message: Public Input	No. 163-NFPA 1917-2013 [New Section after A.6.25]	

## A.6.28.3

Oxygen and suction ports should be located so that EMSPs do not have to reach behind themselves, a structure, or a piece of equipment to access the ports.

6.28.11.1	
	<u>Global FR-1</u> <u>Hide Deleted</u> medical gas system of each ambulance shall be tested prior to ccordance with Section <u>9.15</u> .
	Global FR-1 Hide Deleted system medical gas system shall lose no more than 5 psi (34 kPa) of 2-hour period.
Each outlet s <del>oxygen <u>media</u> 6.28.11.1.3</del>	<u>Global FR-1</u> <u>Hide Deleted</u> hall be capable of delivering at least 26.4 gpm (100 L/min) of <u>cal gas</u> .
<del>system in a s</del>	Global FR-1 Hide Deleted of the oxygen system integrity shall be validated by testing a sample ubstantially similar ambulance in accordance with Section-9.15 - nation Verification
	Inmer [ Not Specified ]
Submitter Full N	Inde, I NOLODECHEO I
Submitter Full N Organization: Street Address: City: State: Zin:	[ Not Specified ]
Organization: Street Address: City:	[Not Specified ]
Organization: Street Address: City: State: Zip:	[ Not Specified ] Fri Oct 18 11:38:03 EDT 2013
Organization: Street Address: City: State: Zip: Submittal Date:	[ Not Specified ] Fri Oct 18 11:38:03 EDT 2013

in.

🙀 First Revisio	First Revision No. 60-NFPA 1917-2013 [ Section No. 6.29.1 ]	
6.29.1	owered A quetion contrator overtem shall be furnished	
	$\frac{1}{2}$ overed <u>A</u> suction aspirator system shall be furnished.	
ubmitter Informat	ion verification	
Submitter Full Nar	ne: [ Not Specified ]	
Organization:	[ Not Specified ]	
Street Address:		
City:		
State:		
Zip:		
Submittal Date:	Fri Oct 18 12:03:25 EDT 2013	
ommittee Statem	ent	
Committee Statem	ent: The committee believes this allows for greater flexibility.	
Response Messag	e:	
Public Input No. 50	2-NFPA 1917-2013 [Section No. 6.29.1]	

First Rev	ision No. 142-NFPA 1917-2013 [ Section No. 6.29.9.3 ]
manufactu	ce of the aspirator system shall be validated by <del>testing a sample</del> <u>the</u> irer by testing each individual aspirator system installed in <del>a substantially</del> bulance in accordance with Section 9.20.
Submitter Info	rmation Verification
Submitter Fu	II Name: [ Not Specified ]
Organization	
Street Addres	SS:
City:	
State:	
Zip:	
Submittal Da	te: Thu Oct 31 11:50:13 EDT 2013
Committee Sta	atement
Committee Statement:	The committee believes the standard should specify by passage the tests that are required on each individual ambulance by the manufacturer and those tests required by third party testing with a 7 year duration for testing substantially similar vehicle types.
Response Message:	

First Revision	No. 143-NFPA 1917-2013 [ Section No. 7.1.1.1 ]
	inted circuits are utilized, they shall conform to IPC A- <del>610D</del> <u>610E</u> , f <i>Electronic Assemblies.</i> "
Submitter Informat	ion Verification
Submitter Full Nan	<b>ne:</b> [ Not Specified ]
Organization:	[Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 31 11:57:16 EDT 2013
Committee Stateme	ent
Committee Statem	ent: The IPC A-610E is the current document published 04/01/2010.
Response Message	
Public Input No. 21-	NFPA 1917-2013 [Section No. 7.1.1.1]

E

First Re	vision No. 164-NFPA 1917-2013 [ Section No. 7.1.1.2 ]
7.1.1.2	
	ircuit assemblies provided shall qualify under IPC A-610D, "Acceptability
Industria	onic Assemblies," Classification 1.4.1 as Class 2 "For Commercial and I Assemblies" or better. Printed circuit assemblies shall be qualified in ace with one of the following:
Ele	n–life saving systems shall comply with IPC A-610E. <u>Acceptability of</u> ctronic Assemblies, <u>Classification 1.4.1 as Class 2, For Commercial and</u> ustrial Assemblies, or better.
Ele	-saving systems shall comply with IPC A-610E, <u>Acceptability of</u> <u>ctronic Assemblies</u> , <u>Classification 1.4.1 as Class 3</u> , <u>High Performance</u> <u>ctronic Products</u> , <u>or better</u> .
Supplementa	I Information
File	Name Description
	.1.2_nw.docx
	-
Submitter Inf	ormation Verification
	ull Name: [ Not Specified ]
Organizatio	n: [Not Specified]
Street Addr	ess:
City:	
State:	
Zip:	
•	ete: Nov 15 10:00:54 EST 2012
Submittal D	ate: Fri Nov 15 10:26:54 EST 2013
Committee St	atement
Committee Statement:	This revision is necessary as Class 3 High Performance Electronic Products includes products where continued high performance or performance-on- demand is critical, equipment downtime cannot be tolerated, end-use environment may be uncommonly harsh, and the equipment must function when required such as life support or other critical systems. The proposed language restores the caliber of the circuit assemblies as it has been established by the KKK specifications. A higher rate of failure is not acceptable in an ambulance.
Response Message:	
Durk Part 1	No. 22-NFPA 1917-2013 [Section No. 7.1.1.2]
Public Input	
	<u>No. 120-NFPA 1917-2013 [Section No. 7.1.1.2]</u>
Public Input	No. 120-NFPA 1917-2013 [Section No. 7.1.1.2] No. 350-NFPA 1917-2013 [Section No. 7.1.1.2]
<u>Public Input</u> Public Input	

## 7.1.1.2

Printed circuit assemblies shall comply with/conform to one of the following:

- (1) <u>Non–life saving systems shall comply with IPC A-610E, Acceptability of Electronic Assemblies,</u> <u>Classification 1.4.1 as Class 2, For Commercial and Industrial Assemblies, or better.</u>
- (2) <u>Life–saving systems shall comply with IPC A-610E, Acceptability of Electronic Assemblies,</u> <u>Classification 1.4.1 as Class 3, High Performance Electronic Products, or better.</u>

This revision is necessary because Class 3 high performance electronic products include products in which continued high performance or performance-on-demand is critical, equipment downtime cannot be tolerated, the end-use environment might be uncommonly harsh, and the equipment must function when required to supply life support or other critical systems. The proposed language restores the caliber of the circuit assemblies established by Federal Specification KKK-A-1822. A higher rate of failure is not acceptable in an ambulance.

First Revisio	n No. 63-NFPA 1917-2013 [ Section No. 7.1.1.3 ]
NFPA	
<del>7.1.1.3</del>	
Printed circuit t specification re	poard connections and components shall conform to all other quirements.
Submitter Informa	tion Verification
Submitter Full Na	me: [Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Fri Oct 18 12:14:35 EDT 2013
Committee Statem	nent
Committee	There are no "other specification requirements" identified.
Statement:	Suggestion is to delete this item.
Response Message:	
Public Input No. 23	3-NFPA 1917-2013 [Section No. 7.1.1.3]

First Rev	First Revision No. 64-NFPA 1917-2013 [ Section No. 7.2.1 [Excluding	
Any Sub-Section		
	cal circuit <del>feeder</del> wiring supplied and installed by the ambulance urer shall meet the requirements of 7.2.1.1 through 7.2.1.6.	
Submitter Info	rmation Verification	
Submitter Fu	II Name: [ Not Specified ]	
Organization		
Street Addres	ss:	
City:		
State:		
Zip:		
Submittal Da	te: Fri Oct 18 12:15:00 EDT 2013	
Committee Sta	atement	
Committee Statement:	All added conversion wiring should be copper conductor sized for 125% of the rated current load intended. Currently the passage only requires the feeder portion of the circuit to be copper. Current AMD and KKK standards require the use of copper wiring.	
Response Message:		
Public Input N	Io. 403-NFPA 1917-2013 [Section No. 7.2.1 [Excluding any Sub-Sections]]	

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	rops in all wiring from the power source to the <del>using device</del> . <u>load</u> shall not <del>5 volt.</del> <u>5 percent of the nominal source voltage.</u>
ubmitter Info	rmation Verification
Submitter Fu	II Name: [ Not Specified ]
	: [Not Specified ]
Street Addres	SS:
City:	
State:	
Zip:	
Submittal Da	te: Fri Oct 18 12:38:57 EDT 2013
ommittee Sta	atement
Committee Statement:	The industry standard allowance for voltage drop in a branch circuit is 5% (Refer to the NEC, NFPA 70.) Specifying a lower allowed voltage drop wil in some cases necessitate the use of larger conductors.
	There is no justification for this ambulance standard to deviate from standard industry practice in a way that compels higher cost to the customer for unnecessarily large conductor.
	The issue should be resolved by changing the allowable drop to 5% of the

<b>7.2.1.3</b> The use or ground co	f star washers <u>by the final-stage ambulance manufacturer</u> for circuit nnections shall not be permitted. [ <b>1901:</b> 13.2.1.2]
ubmitter Info	rmation Verification
Submitter Fu	II Name: [ Not Specified ]
Organization	[ Not Specified ]
Street Addres	SS:
City:	
State:	
Zip:	
Submittal Da	te: Thu Oct 31 11:59:40 EDT 2013
ommittee Sta	tement
Committee Statement:	Some chassis manufacturers utilize star washers in their manufacturing process. The original statement would require that those chassis would no be allowed, or those connections would require replacement.
Response Message:	
Public Input N	<u>o. 24-NFPA 1917-2013 [Section No. 7.2.1.3]</u>
	o. 121-NFPA 1917-2013 [Section No. 7.2.1.3]
	o. 351-NFPA 1917-2013 [Section No. 7.2.1.3]
	o. 401-NFPA 1917-2013 [Section No. 7.2.1.3]
Public Input N	o. 471-NFPA 1917-2013 [Section No. 7.2.1.3]

🙀 First Revisio	on No. 207-NFPA 1917-2014 [ Section No. 7.2.1.4 ]
7.2.1.4	
Truck, Truck-1	II otherwise be wired in conformance with SAE <del>J1292, <i>Automobile,</i> Tractor, Trailer, and Motor Coach Wiring.</del> -{ <b>1901:</b> 13.2.1.3} <u>J2202,</u> <u>iring Systems for On-Highway Trucks</u> .
Submitter Informa	ation Verification
Submitter Full Na	ame: Michael Beady
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Feb 06 14:53:37 EST 2014
Committee Staten	nent
Committee Statement:	The committee has made this change in order to update referenced documents and requirements.
Response Message:	

	vision No. 71-NFPA 1917-2013 [ Section No. 7.2.1.5 ]
7.2.1.5	
	Global FR-1 Hide Deleted
<del>oxygen</del> <u>m</u>	trical components directly related to the delivery of on-board redical gas and other circuits needed for required lighting or medical gas shall terminate in the oxygen medical gas storage compartment.
Submitter Info	ormation Verification
Submitter Fi	ull Name: [ Not Specified ]
Organizatior	I: [Not Specified ]
Street Addre	ess:
City:	
State:	
Zip: Submittal Da	ate: Fri Oct 18 12:40:32 EDT 2013
Submittar Da	ate: FILOCE 16 12:40:32 EDT 2013
Committee St	atement
Committee Statement:	Lighting and door sensors are a requirement of 7.11.7.1 and should not be excluded from this compartment. Electric oxygen lifts are a signifiant benefit to operator safety when changing oxygen tanks and properly designed and protected systems should be allowed.
Response Message:	
	<u>No. 25-NFPA 1917-2013 [Section No. 7.2.1.5]</u> No. 402-NFPA 1917-2013 [Section No. 7.2.1.5]

FPA Excluding any	Sub-Sections] ]
Cable, or S	ed wire and cable shall conform to SAE J1127, <i>Low Voltage Battery</i> SAE J1128, <i>Low Voltage Primary Cable,</i> type SXL <del>, GXL, or TXL.</del> . <del>.2.2.1]</del> and/or GXL.
ubmitter Info	rmation Verification
Submitter Ful	I Name: [ Not Specified ]
Organization	[ Not Specified ]
Street Addres	SS:
City:	
State:	
Zip:	
Submittal Dat	<b>e:</b> Thu Oct 31 12:02:03 EDT 2013
ommittee Sta	tement
Committee Statement:	TXL is an inferior wire compared to the current requirements in the KKk standard which is SXL or GXL. The insulation thickness on SXL is .037, GXL is .023 and TXL is .016.
Response Message:	
Public Input N	o. 122-NFPA 1917-2013 [Section No. 7.2.2.1 [Excluding any Sub-Sections
Dublic Input N	o. 352-NFPA 1917-2013 [Section No. 7.2.2.1 [Excluding any Sub-Sections
	o. 472-NFPA 1917-2013 [Section No. 7.2.2.1 [Excluding any Sub-Sections

	ions at exterior Exterior connections for lights and fixtures shall utilize onnectors or sealed splices.
	ormation Verification
	ull Name: [ Not Specified ]
Organizatio	
Street Addr	
	633.
City:	
State:	
Zip:	
Submittal D	Thu Oct 31 12:03:47 EDT 2013
ommittee S	tatement
	There is no reason for the increased expense of exterior sealed connectors on devices where the connector is inside the patient compartment. The logical intent is to ensure that all connections that are potentially exposed to moisture are properly protected against moisture. Many exterior light connections are interior connections that are not exposed to moisture and therefore do not need such protection. Conversely, there are connections fo devices other than exterior lights and fixtures that are exterior connections that do need to utilize sealed connectors or sealed splices.
Response Message:	
Public Input	No. 27-NFPA 1917-2013 [Section No. 7.2.2.7]
	No. 125-NFPA 1917-2013 [Section No. 7.2.2.7]
	No. 355-NFPA 1917-2013 [Section No. 7.2.2.7]
Public Input	No. 407-NFPA 1917-2013 [Section No. 7.2.2.7]

in.

First Revis	sion No. 147-NFPA 1917-2013 [ Section No. 7.3.2.2 ]
	of the minimum electrical load test conditions shall be validated by betantially similar each ambulance in accordance with 9.4.3.3.
Submitter Infor	nation Verification
Submitter Full	Name: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address	::
City:	
State:	
Zip:	
Submittal Date	: Thu Oct 31 14:16:37 EDT 2013
Committee Stat	ement
Committee Statement:	Testing of each ambulance as opposed to a substantially similar ambulance ensures each ambulance is operational and configured properly.
Response Message:	
Public Input No	<u>. 29-NFPA 1917-2013 [Section No. 7.3.2.2]</u>

7040	
7.3.4.2 Compliance	of the high-idle alternator output shall be validated by testing a
substantially	similar ambulance in the final-stage ambulance manufacturer by
testing each	ambulance in accordance with 9.4.3.4.
Submitter Inforn	nation Verification
Submitter Full	Name: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address	:
City:	
State:	
Zip:	
Submittal Date:	Fri Oct 18 13:30:57 EDT 2013
Committee State	ement
Committee Statement:	The alternator testing needs to be verified by the manufacturer on each unit produced prior to the vehicle being placed into service.

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7.4.2	e is a winned to tow a trailer, or additional 45 additional 20
amperes shall b electrical power	e is equipped to tow a trailer, an additional 45- additional 20 be added to the minimum continuous electrical load to provide for the federally required clearance and marker lighting and the devices mounted on the trailer.
. 0	
	tion Verification
	ion Verification
mitter Informat	tion Verification me: [Not Specified ]
mitter Informat	ne: [ Not Specified ]
mitter Informat	ne: [ Not Specified ]
mitter Informat	ne: [ Not Specified ]
mitter Informat Submitter Full Nar Organization: Street Address:	ne: [ Not Specified ]
mitter Informat Submitter Full Nar Organization: Street Address:	ne: [ Not Specified ]

Committee Statement:	The 45-amp requirement of this section far exceeds the actual load for a fully-compliant trailer. In the same way that this ambulance standard should specify minimum requirements for a basic ambulance, electrical load allowance for a trailer should be based upon a realistic, basic trailer rather than a worst case trailer electrical load. Typical load requirements for an FMVSS-compliant trailer would total less than 15 amperes as shown below.
	(which provides a 7A or 35% capacity margin).
	Light Description and Quantity Total Electrical Load
	Tail Lamps, 2 ea @ 0.03A = 0.06A
	Stop Lamps, 2 ea @ 0.38A = 0.76A
	Turn Lamps, 2 ea @ 0.38A = 0.76A
	License Plate Lamp, 1 ea @ 0.5A = 0.50A
	Rear Side Marker Lamps, 2 ea @ 0.05A = 0.10A
	Front Side Marker Lamps, 2 ea @ 0.05A = 0.10A
	Rear Clearance Lamps, 2 ea @ 0.05A = 0.10A
	Rear Identification Lamps, 3 ea @ 0.05A = 0.15A
	Front Clearance Lamps, 2 ea @ 0.05A = 0.10A
	Side Flashers, 4 ea @ 0.60A = 2.40A
	Rear Flashers, 2 ea @ 0.60A = 1.20A
	Dome lights, 4 ea @ 1.5A = 6.00A
	Total of all above loads = 12.23A
Response Message:	
	No. 31-NFPA 1917-2013 [Section No. 7.4.2] No. 504-NFPA 1917-2013 [Section No. 7.4.2]

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s so the second second second state of the state through a second s
e voltage alarm shall be validated by testing <del>a substantially</del> pulance in accordance with 9.4.3.
on Verification
e: [ Not Specified ]
[ Not Specified ]
Thu Oct 31 14:24:40 EDT 2013
nt
The cross reference in 7.4.3.2.2 to section 9.5.3 is incorrect, the Low oltage alarm testing is section 9.5.4

_	
First Rev	ision No. 150-NFPA 1917-2013 [ Section No. 7.5.3.1 ]
installed to manufactu	speed auxiliary control device (high-idle switch or throttle) shall be allow an increase in the engine speed <u>, not to exceed the chassis</u> rer's recommendations, when the ambulance is <del>parked</del> in park or neutral arking brake applied.
Submitter Info	rmation Verification
Submitter Ful	I Name: [ Not Specified ]
Organization	[Not Specified ]
Street Addres	S:
City:	
State:	
Zip:	
Submittal Dat	<b>te:</b> Thu Oct 31 14:26:40 EDT 2013
Committee Sta	tement
Committee Statement:	Extended operation of an engine at elevated idle in order to comply with this section outside of the manufacturer's recommendations could shorten the life of the engine.
Response Message:	
	<u>o. 33-NFPA 1917-2013 [Section No. 7.5.3.1]</u> o. 416-NFPA 1917-2013 [Section No. 7.5.3.1]

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First Revision	No. 174-NFPA 1917-2013 [ New Section after 7.6.5 ]
<u>7.6.5.1</u>	
	arger shall be tested to the requirements of 9.8.6 .
ubmitter Informat	ion Verification
Submitter Full Nan	
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Dec 17 12:50:02 EST 2013
ommittee Stateme	ent
Committee Statem	ent: To be provided
Response Message	9:

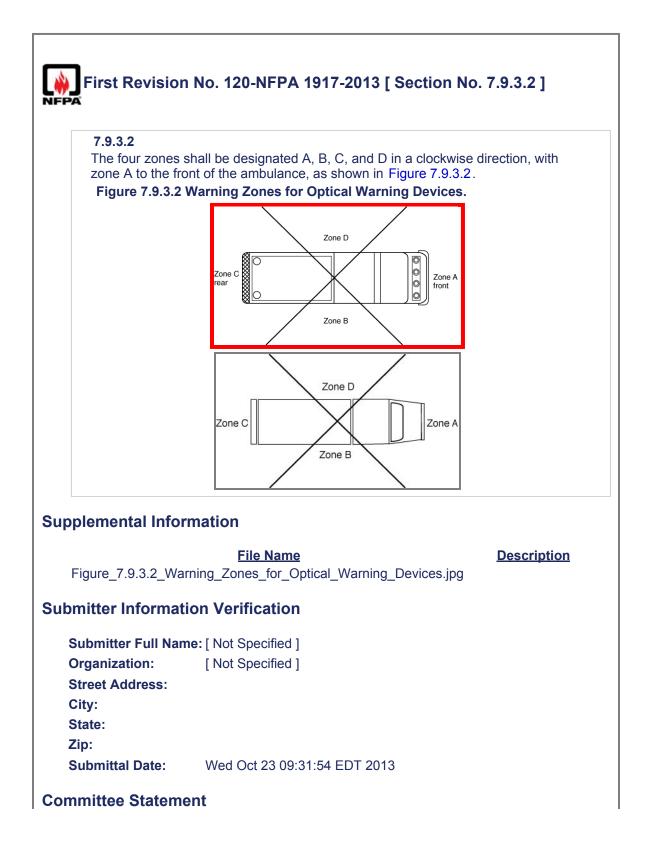
First Rev	ision No. 151-NFPA 1917-2013 [ Section No. 7.6.7 ]
	load disconnect shall be provided between the starter solenoid(s) and an power source and the patient compartment electrical loads.
Submitter Info	rmation Verification
Submitter Fu	II Name: [ Not Specified ]
Organization	: [Not Specified ]
Street Addre	SS:
City:	
State:	
Zip:	
Submittal Da	te: Thu Oct 31 14:34:56 EDT 2013
Committee Sta	atement
Committee Statement:	Requiring that power must be taken from the starter solenoid is not a recommended practice by some chassis manufacturer's and is not necessary when wiring can directly be connected to the battery system.
Response Message:	
Dublic Input N	lo. 34-NFPA 1917-2013 [Section No. 7.6.7]

First Revisi	on No. 117-NFPA 1917-2013 [ Section No. 7.6.8.1 ]
NFPA	
<del>7.6.8.1</del>	
The starter se	plenoids shall be connected directly to the chassis batteries.
Submitter Inform	ation Verification
Submitter Full N	lame: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Wed Oct 23 09:17:19 EDT 2013
Committee State	ment
Committee Statement:	This should be a chassis manufacturer's engineering determination not a minimum requirement for an ambulance specification.
Response Message:	
Public Input No.	<u>35-NFPA 1917-2013 [Section No. 7.6.8.1]</u>

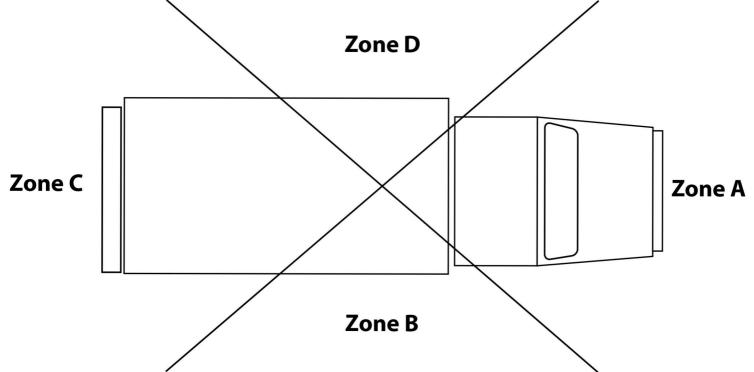
ammeter s	ator <u>Alternators</u> shall <u>not</u> be wired <del>directly to the batteries</del> through the shunt(s), if one is provided, and not through the master load <del>disconnect</del> . 901: 13.4.6.3]
Ibmitter Info	rmation Verification
Submitter Fu	II Name: [ Not Specified ]
Organization	[ Not Specified ]
Street Addres	\$S:
City:	
State:	
Zip: Submittal Dat	te: Wed Oct 23 09:27:34 EDT 2013
ommittee Sta	tement
Committee Statement:	Ammeter shunts, as opposed to a more modern Hall-effect sensor, shoul not be a requirement for taking amp readings of an alternator if requested Alternators should not be required to be wired directly to batteries as man chassis manufacturers wire them to power distribution centers.
Response	

First Revision	First Revision No. 119-NFPA 1917-2013 [ Section No. 7.6.11		
[Excluding any Su	b-Sections] ]		
compartment	e power point <u></u> type connectors shall be furnished in the patient for charging all portable battery powered devices (e.g., suction units, ibrillators, and portable radios).		
Submitter Information	tion Verification		
Submitter Full Na	me: [ Not Specified ]		
Organization:	[ Not Specified ]		
Street Address:			
City:			
State:			
Zip: Submittal Date:	Wed Oct 23 09:28:46 EDT 2013		
Submittal Date:	Wed Oct 23 09.26.46 EDT 2013		
Committee Statem	ent		
Committee Statement:	The word "all" over reaches the intention of the requirement for the two outlets.		
Response Messag	le:		
Public Input No. 37	-NFPA 1917-2013 [Section No. 7.6.11 [Excluding any Sub-Sections]]		

First Revis	sion No. 76-NFPA 1917-2013 [ Section No. 7.6.12 ]
<del>7.6.12</del>	
	al tagged, identified lead shall be furnished in both the cab and the connection of additional (future) portable equipment that requires
ubmitter Infori	nation Verification
Submitter Full	Name: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address	
City:	
State:	
Zip:	
Submittal Date	: Fri Oct 18 13:48:01 EDT 2013
ommittee Stat	ement
Committee Statement:	Without a defined load, prewiring for any unknown device is unsafe and can not be designed to ensure proper breaker size or 125% of the rated capacity.
	or
	Define the maximum amperage load of the prewire, i.e. 20 Amps.
Response Message:	
Public Input No	. 38-NFPA 1917-2013 [Section No. 7.6.12]
<u>Public Input No</u>	<u>. 417-NFPA 1917-2013 [Section No. 7.6.12]</u>



Committee Statement:	Suggestion to use an image of an ambulance as opposed to a fire truck or rescue.
	The committee is deleting the existing figure and replacing with the attached figure, which is that of an ambulance.
Response Message:	
Public Input No	<u>. 39-NFPA 1917-2013 [Section No. 7.9.3.2]</u>



First Revisior	n No. 152-NFPA 1917-2013 [ Section No. 7.9.7.1 ]
parking brake is	er optical warning system switch <del>is closed</del> <u>is enabled</u> and the released or the automatic transmission is not in park, the warning g the call for the right-of-way shall be energized. [ <b>1901:</b> 13.8.7.1]
ubmitter Informat	ion Verification
Submitter Full Nan	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
State: Zip: Submittal Date:	Thu Oct 31 14:38:32 EDT 2013
Zip:	
Zip: Submittal Date: ommittee Stateme	
Zip: Submittal Date: ommittee Stateme	ent: Clarification to aid in interpretation.

First Revisior	n No. 153-NFPA 1917-2013 [ Section No. 7.9.7.2 ]
parking brake is	er optical warning system switch <del>is closed</del> <u>is enabled</u> and the on or the automatic transmission is in park, the warning devices ockage of the right-of-way shall be energized. [ <b>1901:</b> 13.8.7.2]
ubmitter Informat	ion Verification
Submitter Full Nan	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	Thu Oct 31 14:40:21 EDT 2013
	Thu Oct 31 14:40:21 EDT 2013
Zip: Submittal Date:	
Zip: Submittal Date: ommittee Stateme	
Zip: Submittal Date: ommittee Stateme	ent: Clarification to aid in interpretation.

First Revis	sion No. 79-NFPA 1917-2013 [ Section No. 7.9.10 ]
that failure of zone on the distance of single optic	sources on each level shall be of sufficient number and arranged so of a single optical source does not create a measurement point in any same level as the failed optical source without a warning signal at a 100 ft (30 m) from the geometric center of the ambulance. Failure of a al device should not impede the visibility of the vehicle at 100 ft (30 m) cometric center of the ambulance.
Submitter Infor	mation Verification
Submitter Full	Name: [ Not Specified ]
Organization:	[Not Specified ]
Street Address	s:
City:	
State:	
Zip:	
Submittal Date	e: Fri Oct 18 13:50:47 EDT 2013
Committee Stat	tement
Committee Statement:	Simplified requirement. Originally stated, it appears that an additional warning device/signal is required to identify if an optical source has failed.
Response Message:	
Public Input No	o. 42-NFPA 1917-2013 [Section No. 7.9.10]

7.9.11.1	
The minimum	n flash rate of any optical source shall be 75 flashes per minute <u>.</u> <del>, and number of flashes at any measurement point shall be 150 flashes per <b>1:</b> 13.8.11.1]</del>
[ <b>1901:</b> 13.8.11	ng, nonflashing optical sources shall be permitted to be used1.1]
	optical energy provided by <del>nonflashing <u>flashing</u> optical sources shall ed in the calculations of the zone's total optical power. 11.1.2]</del>
7.9.11.1.3 The minimum per minute.	number of flashes at any measurement point shall be 150 flashes
ubmitter Inform	ation Verification
Submitter Full N	ame: [ Not Specified ]
Organization: Street Address: City: State:	[Not Specified ]
Zip:	Wed Oct 23 09:37:38 EDT 2013
Submittal Date:	Wed Oct 25 09.57.56 EDT 2015
Submittal Date:	

First Revisi	on No. 80-NFPA 1917-2013 [ Section No. 7.9.11.2 ]
	f any current-interrupted flashing device shall otherwise meet the of SAE J1690, <i>Flashers</i> [ <b>1901:</b> 13.8.11.2]
Submitter Inform	ation Verification
Submitter Full N	ame: [ Not Specified ]
Organization: Street Address: City: State: Zip:	[ Not Specified ]
Submittal Date:	Fri Oct 18 13:52:11 EDT 2013
Committee State	ment
Committee Statement:	SAE J1690 is not current with today's more common lightheads with integrated flashing circuitry.
	The SAE J1690 document assumes the flasher is external to the light and does not
	address if the flashers are integral to the light. This document has not been updated since 1996, and has not kept pace
	with many lightheads now incorporating internal flash circuitry.
Response Message: Public Input No. 4	44-NFPA 1917-2013 [Section No. 7.9.11.2]

First Revisio	on No. 81-NFPA 1917-2013 [ Section No. 7.9.17.1.2 ]
<del>7.9.17.1.2</del>	
	e standard warning light system shall not impose a continuous ical load exceeding 40 amperes at 14.2 volts.
Submitter Inform	ation Verification
Submitter Full N	ame: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Fri Oct 18 13:53:41 EDT 2013
Committee Stater	nent
Committee	A maximum ampere limit should not be imposed if the vehicle is
Statement:	designed for and capable of supporting the necessary load.
Response Message:	
•	8-NFPA 1917-2013 [Section No. 7.9.17.1.2]

First Revi	sion No. 175-NFPA 1917-2013 [ Section No. 7.9.17.2
xcluding any	Sub-Sections]]
The ambul lights, 1 fix	ance standard emergency warning light system shall contain 12 fixed red ed <del>clear</del> white light, and 1 or more fixed <del>amber</del> <u>yellow</u> light <u>s</u> ( <del>s)</del> .
ubmitter Info	mation Verification
Submitter Ful	I Name: [ Not Specified ]
Organization:	[ Not Specified ]
Street Addres	s:
City:	
State:	
Zip:	
Submittal Dat	e: Tue Dec 17 13:00:51 EST 2013
ommittee Sta	tement
Committee Statement:	In Table 7.9.12.1 the word yellow and white are used and in section 7.9.12.2 the word yellow and white are used. The committee needs to decide what Terminology to use. Updates also made to Figure 7.9.17.2.1.
Response Message:	
Public Input N	o. 15-NFPA 1917-2013 [Section No. 7.9.17.2 [Excluding any Sub-Sections]

First Revision	First Revision No. 208-NFPA 1917-2014 [ Section No. 7.9.17.2.3	
Excluding any Sub-		
	hite light shall be centered between the two front-facing, red, s or in a dedicated housing mounted forward of the body on the	
Submitter Informatio	n Verification	
Submitter Full Name	: Patrick Foley	
Organization:	NFPA	
Street Address:		
City:		
State:		
Zip:		
Submittal Date:	Mon Feb 10 14:31:33 EST 2014	
Committee Statemen	it	
Committee Statement:	This change was made for document consistency based on FR 175.	
Response Message:		

	body dimensions and physical size of the outboard forward-facing
lights, the lights	shall also be mounted in dedicated housings on the cab roof.
bmitter Informat	ion Verification
Submitter Full Nar	ne: [Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Fri Oct 18 13:58:46 EDT 2013

First Revision	No. 209-NFPA 1917-2014 [ Section No. 7.9.17.2.5 ]
NFPA	
7.9.17.2.5 The <del>amber</del> <u>yellow</u> red lights.	<u>w</u> light shall be symmetrically located between the two rear-facing
Submitter Informati	on Verification
Submitter Full Nam	e: Patrick Foley
Organization:	NFPA
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Mon Feb 10 14:33:19 EST 2014
Committee Stateme	ent
Committee Statement:	This change was made for document consistency based on FR 175.
Response Message	

7.9.17.2.7	
The lateral-fac front upper ed	ing intersection lights shall be mounted as close as possible to the ge of each front fender and shall be able to be angled forward a between 0 and 30 degrees.
ubmittor Informa	ation Verification
iomitter informa	ation verification
Submitter Full Na	ame: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Wed Oct 23 09:48:22 EDT 2013
ommittee Staten	nent
Committee Statement:	The committee has made this change to provide the end used with
Statement:	further clarification to the requirement.
Response	

E

First Revis	sion No. 154-NFPA 1917-2013 [ Section No. 7.10.3 ]		
7.10.3			
Audible war	ning equipment shall not be mounted on the roof <u>, on the front</u> of the <u>behind the</u> ambulance <u>operator</u> .		
Submitter Infor	ubmitter Information Verification		
Submitter Full	Name: [ Not Specified ]		
Organization:	[ Not Specified ]		
Street Address	8:		
City:			
State:			
Zip:			
Submittal Date	Thu Oct 31 14:50:48 EDT 2013		
Committee Stat	ement		
Committee Statement:	Audible warning devices above or behind the vehicle operator could impare the hearing of the vehicle operator and create long term hearing damage.		
Response Message:			
Public Input No	. 51-NFPA 1917-2013 [Section No. 7.10.3]		

First Revis	ion No. 155-NFPA 1917-2013 [ Section No. 7.11.3.4 ]
7.11.3.4	
	hall turn on whenever the rear patient entry doors are opened <u>and the</u> er is on .
Submitter Inform	nation Verification
Submitter Full	Name: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address	:
City:	
State:	
Zip:	
Submittal Date	Thu Oct 31 14:52:34 EDT 2013
Committee State	ement
Committee Statement:	This change was made for the purposes of clarification. Currently stated, the lights would be hot at all times and could potentially drain the vehicle batteries.
Response Message:	
Public Input No.	52-NFPA 1917-2013 [Section No. 7.11.3.4]

🙀 First Re	vision No. 85-NFPA 1917-2013 [ Section No. 7.11.4.2 ]		
7.11.4.2 The lowe directiona	r front and rear side marker lights shall flash in conjunction with the		
Submitter Info	Ibmitter Information Verification		
Submitter F	ull Name: [ Not Specified ]		
Organizatio	i: [Not Specified]		
Street Addre	PSS:		
City:			
State:			
Zip:			
Submittal Da	Ate: Fri Oct 18 14:02:14 EDT 2013		
committee St	atement		
Committee Statement:	This would require modifying the OEM flashing systems that are already FMVVS compliant. Chrysler and International will operate as currently written in this passage. Ford, GM, and Mercedes-Benz will not comply as the front marker lights and the turn signal are separate bulbs and do not flash in conjunction. Mercedes rear lights are also independent.		
Response Message:			
Public Input	No. 418-NFPA 1917-2013 [Section No. 7.11.4.2]		

E

	circuit shall not consume more than 25 amperes and shall have rotected and controlled circuits.
ubmitter Inforn	nation Verification
Submitter Full I	Name: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address	
City:	
State:	
Zip:	
Submittal Date:	Wed Oct 23 10:02:13 EDT 2013
ommittee State	ement
0	If a lighting circuit is properly designed and the vehicle electrical system
Committee Statement:	is capable of supporting it, it should not have a maximum limit.

Submitter Full Name: [Not Specified ]         Organization:       [Not Specified ]         Street Address:         City:         State:         Zip:         Submittal Date:       Wed Oct 23 10:06:03 EDT 2013         Committee Statement         Committee Statement:         Stated, these lights would be hot all the time and could unintentionally drain the batteries if the door was left open.         Response Message:			
The patient compartment lighting shall be automatically activated in the low setting- when the side entry or rear entry patient compartment doors are opened and the modular power is on . Submitter Information Verification Submitter Full Name: [Not Specified ] Organization: [Not Specified ] Organization: [Not Specified ] Street Address: City: State: Zip: Submittal Date: Wed Oct 23 10:06:03 EDT 2013 Committee Statement Committee Statement: The committee has made this change for further clarification. Currently stated, these lights would be hot all the time and could unintentionally drain the batteries if the door was left open. Response Message:	First Revision No. 124-NFPA 1917-2013 [ Section No. 7.11	.6.3.5 ]	
Submitter Full Name: [Not Specified ]         Organization:       [Not Specified ]         Street Address:         City:         State:         Zip:         Submittal Date:       Wed Oct 23 10:06:03 EDT 2013         Committee Statement         Committee Statement:         Stated, these lights would be hot all the time and could unintentionally drain the batteries if the door was left open.         Response Message:	The patient compartment lighting shall be automatically activated in the when the side entry or rear entry patient compartment doors are opened		
Organization:       [Not Specified]         Street Address:       [         City:	Submitter Information Verification		
Street Address:         City:         State:         Zip:         Submittal Date:       Wed Oct 23 10:06:03 EDT 2013         Committee Statement         Committee Statement:         Stated, these lights would be hot all the time and could unintentionally drain the batteries if the door was left open.         Response Message:	Submitter Full Name: [ Not Specified ]		
City: State: Zip: Submittal Date: Wed Oct 23 10:06:03 EDT 2013 Committee Statement Committee Statement The committee has made this change for further clarification. Currently stated, these lights would be hot all the time and could unintentionally drain the batteries if the door was left open. Response Message:	Organization: [Not Specified]		
State:         Zip:         Submittal Date:       Wed Oct 23 10:06:03 EDT 2013         Committee Statement         Committee Statement         Committee Statement:       The committee has made this change for further clarification. Currently stated, these lights would be hot all the time and could unintentionally drain the batteries if the door was left open.         Response Message:       Response Message:			
Zip:         Submittal Date:       Wed Oct 23 10:06:03 EDT 2013         Committee Statement         Committee Statement:         Statement:         The committee has made this change for further clarification. Currently stated, these lights would be hot all the time and could unintentionally drain the batteries if the door was left open.         Response Message:	City:		
Submittal Date:       Wed Oct 23 10:06:03 EDT 2013         Committee Statement       The committee has made this change for further clarification. Currently stated, these lights would be hot all the time and could unintentionally drain the batteries if the door was left open.         Response Message:       Response Message	State:		
Committee       Statement         Committee       The committee has made this change for further clarification. Currently stated, these lights would be hot all the time and could unintentionally drain the batteries if the door was left open.         Response Message:       Response Message:	Zip:		
Committee Statement:The committee has made this change for further clarification. Currently stated, these lights would be hot all the time and could unintentionally drain the batteries if the door was left open.Response Message:	Submittal Date: Wed Oct 23 10:06:03 EDT 2013		
Statement:       stated, these lights would be hot all the time and could unintentionally drain the batteries if the door was left open.         Response Message:       Message:	Committee Statement		
Message:	Statement: stated, these lights would be hot all the time and could unin		
Dublic locut No. 54 NEDA 4047 2042 (Costien No. 7 44 0.2 5)			
Public Input No. 54-NFPA 1917-2013 [Section No. 7.11.6.3.5]	Public Input No. 54-NFPA 1917-2013 [Section No. 7.11.6.3.5]		

E

	ed tool and equipment compartment exterior storage compartment that
	an 4 ft <sup>3</sup> ( <del>0.1</del> <u>1.2</u> m <sup>3</sup> ) <del>in volume</del> and having an opening greater than 900 mm <sup>2</sup> ) shall have sufficient compartment lighting to provide a
	1 fc (10.764 lx) at any location on the floor of the compartment without
	dividers, or equipment in the compartment.
bmitter Inforn	nation Verification
Submitter Full	Name: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address	
Street Address City:	:
	:
City: State:	:
City:	
City: State: Zip:	
City: State: Zip:	Wed Oct 23 10:07:59 EDT 2013
City: State: Zip: Submittal Date:	Wed Oct 23 10:07:59 EDT 2013
City: State: Zip: Submittal Date: mmittee State Committee	Wed Oct 23 10:07:59 EDT 2013 <b>Ement</b> The committee has made this change to provide further clarification an
City: State: Zip: Submittal Date:	Wed Oct 23 10:07:59 EDT 2013 The committee has made this change to provide further clarification an the believe they meet the submitters intent with regards to the public
City: State: Zip: Submittal Date: mmittee State Committee	Wed Oct 23 10:07:59 EDT 2013 <b>Ement</b> The committee has made this change to provide further clarificat
City: State: Zip: Submittal Date: nmittee State Committee Statement:	Wed Oct 23 10:07:59 EDT 2013 <b>Ement</b> The committee has made this change to provide further clarification a
City: State: Zip: Submittal Date: mmittee State Committee	Wed Oct 23 10:07:59 EDT 2013 The committee has made this change to provide further clarification an the believe they meet the submitters intent with regards to the public

First Rev	ision No. 126-NFPA 1917-2013 [ Section No. 7.11.7.2 ]	
NFPA		
accessible	or all compartment. <u>Compartment</u> lighting shall be readily automatically enabled when the compartment door is opened and wer is on .	
Submitter Info	rmation Verification	
Submitter Fu	II Name: [ Not Specified ]	
Organization: [Not Specified]		
Street Address:		
City:		
State:		
Zip:		
Submittal Da	te: Wed Oct 23 10:38:16 EDT 2013	
Committee Sta	itement	
Committee Statement:	The committee has made this change in order to provide further clarification and believes these changes meet the intent of the submitters input. Allows for automation and identifies whom the switch is accessible by.	
Response Message:		
Public Input N	o. 55-NFPA 1917-2013 [Section No. 7.11.7.2]	

First	Revision No. 86-NFPA 1917-2013 [ Section No. 7.12.1 ]
7.12.	1*
A red driver is in t	flashing or rotating light or electronic display within the forward view of the shall be illuminated automatically whenever the ambulance's ignition switch ne run position, the parking brake is not fully engaged, and <del>any <u>either</u></del> of the ing conditions <del>exist</del> <u>exists</u> :
	Any passenger <u>door</u> , patient entry <u>door</u> , or equipment compartment door is not closed.
	Any equipment rack is not in the stowed position.
(	Any other device permanently attached to the ambulance is open, extended, or deployed in a manner that is likely to cause damage to the ambulance if the ambulance is moved.
Submitte Organiza	
Submitte Organiza Street Ac City: State:	r Full Name: [ Not Specified ] tion: [ Not Specified ]
Submitte Organiza Street Ac City:	r Full Name: [ Not Specified ] tion: [ Not Specified ] Idress:
Submitte Organiza Street Ac City: State: Zip: Submitta	r Full Name: [ Not Specified ] tion: [ Not Specified ] Idress:
Submitte Organiza Street Ac City: State: Zip: Submitta	r Full Name: [ Not Specified ] tion: [ Not Specified ] Idress: I Date: Fri Oct 18 14:11:13 EDT 2013 Statement The committee has made this change and believes it addresses th
Submitte Organiza Street Ac City: State: Zip: Submitta ommittee Committe	r Full Name: [ Not Specified ] tion: [ Not Specified ] idress: I Date: Fri Oct 18 14:11:13 EDT 2013 Statement The committee has made this change and believes it addresses th t: submitters inputs. e
Submitte Organiza Street Ac City: State: Zip: Submitta mmittee Committe Statemen Respons Message Public Ing	r Full Name: [ Not Specified ] tion: [ Not Specified ] Idress: I Date: Fri Oct 18 14:11:13 EDT 2013 Statement The committee has made this change and believes it addresses th t: submitters inputs. e : put No. 129-NFPA 1917-2013 [Section No. 7.12.1]
Submitte Organiza Street Ac City: State: Zip: Submitta mmittee Committee Statemer Respons Message Public Ing Public Ing	r Full Name: [ Not Specified ] tion: [ Not Specified ] Idress: I Date: Fri Oct 18 14:11:13 EDT 2013 Statement The committee has made this change and believes it addresses th t: submitters inputs. e : put No. 129-NFPA 1917-2013 [Section No. 7.12.1] put No. 359-NFPA 1917-2013 [Section No. 7.12.1]
Submitte Organiza Street Ac City: State: Zip: Submitta mmittee Committe Statemer Respons Message <u>Public Inp</u> Public Inp Public Inp	r Full Name: [ Not Specified ] tion: [ Not Specified ] Idress: I Date: Fri Oct 18 14:11:13 EDT 2013 Statement The committee has made this change and believes it addresses th t: submitters inputs. e : put No. 129-NFPA 1917-2013 [Section No. 7.12.1]

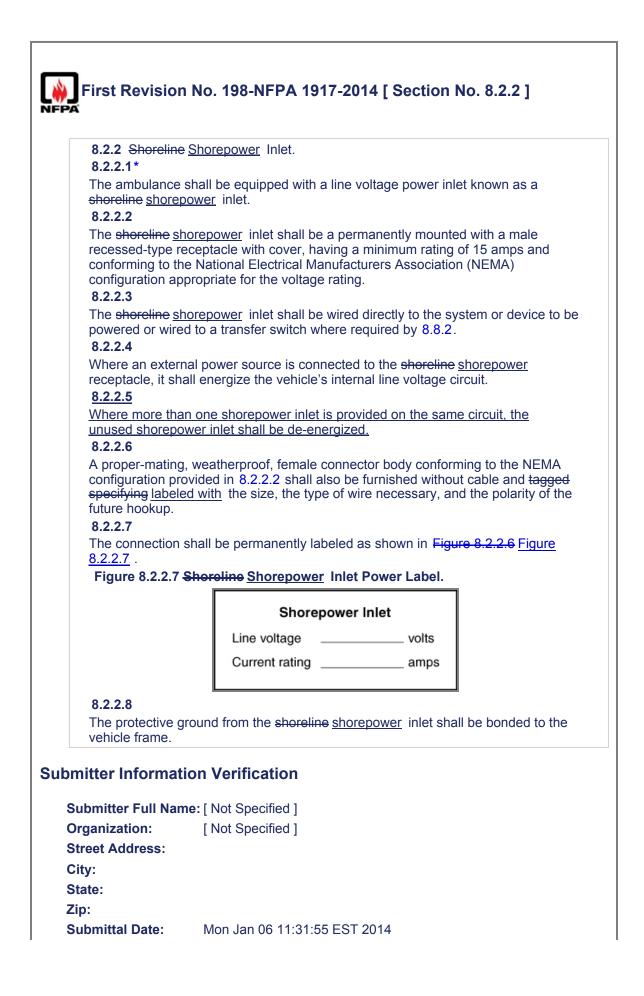
<b>A</b>	
First Revisio	n No. 87-NFPA 1917-2013 [ Section No. 7.13.2 ]
7 40 0	
	arm shall <del>not have capacity to be turned off or disconnected</del> <u>be</u> ne the vehicle is in reverse .
Submitter Informa	tion Verification
Submitter Full Na	me: [Not Specified ]
Organization:	[Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Fri Oct 18 14:14:08 EDT 2013
committee Staten	nent
Committee Statement:	The committee believes this provides clearer direction as it relates t the requirement.
Response Message:	
Public Input No. 5	6-NFPA 1917-2013 [Section No. 7.13.2]
-	06-NFPA 1917-2013 [Section No. 7.13.2]

First Revi	sion No. 88-NFPA 1917-2013 [ New Section after 7.14.4 ]		
NFPA			
	y warning lights shall not be used as brake lights, tail lights, or turn ney exceed the maximum candela output requirements in 49 CFR 571, b. 108.		
Supplemental Information			
<mark>File Nam</mark> A_7_14_5_tex			
Submitter Infor	Submitter Information Verification		
Submitter Ful	Submitter Full Name: [ Not Specified ]		
Organization:			
Street Addres	s:		
City: State:			
Zip:			
Submittal Dat	e: Fri Oct 18 14:18:43 EDT 2013		
Committee Sta	Committee Statement		
Committee Statement:	The committee has added this new text as they believe that safety concern where warning lights are being used as brake lights and causing a visual impairment of following motorists.		
	This is new text.		
Response Message:			
Public Input No	o. 57-NFPA 1917-2013 [New Section after 7.14.4]		

## A.7.14.5

Warning lights, even if meeting the height and candela requirements of this standard, would have to stop flashing to be used as auxiliary brake lights. However, once the warning lights stop flashing the zone flashing requirement would not be met. The purchaser must consider the loss of the flashing warning lights in each of these zones if they plan to use warning lights as auxiliary brake lights.

First Rev	First Revision No. 89-NFPA 1917-2013 [New Section after 7.14.4]		
NFPÅ			
	ghts that do not exceed the maximum candela rating in 49 CFR 571,		
FMVSS No. 108 and are used as primary or auxiliary brake lights shall not be mounted higher than 72 in. (1829 mm) above the ground nor lower than 15 in. (381 mm) from the ground.			
Submitter Info	ubmitter Information Verification		
Submitter Fu	Submitter Full Name: [ Not Specified ]		
Organization: [Not Specified]			
Street Addres City:	Street Address:		
State:			
Zip:			
Submittal Da	te: Fri Oct 18 14:19:51 EDT 2013		
Committee Sta	ommittee Statement		
Committee Statement:	The committee has added this new text as they believe that brake lights mounted over 72" are not permitted per FMVSS 108 and pose a visability safety concern for some following motorists such as semi's and RV's.		
	This is new text.		
Response Message:			
Public Input N	Io. 58-NFPA 1917-2013 [New Section after 7.14.4]		



Committee State	ment
Committee Statement:	The committee has made these changes as reflect commonly used terms.
Response Messa	age:

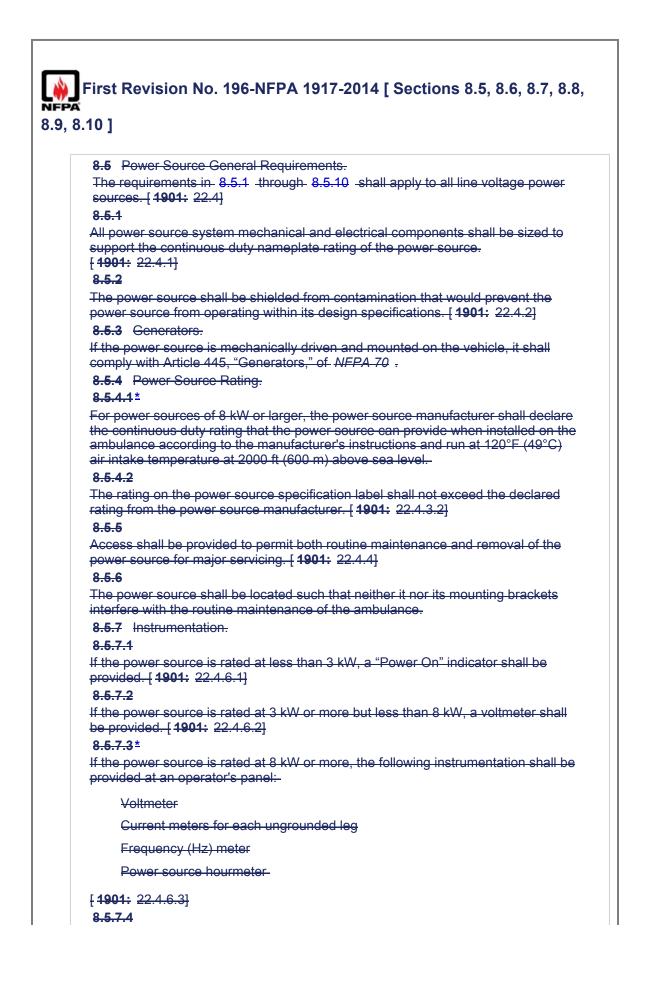
	oltage power source shall produce a maximum voltage output of no
more than <del>10</del> <u>11</u>	10 percent of the power source's full-rated voltage.
ubmitter Informat	ion Verification
Submitter Full Nar	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 31 14:57:58 EDT 2013
ommittee Statem	a má

	vision No. 92-NFPA 1917-2013 [ Section No. 8.3.1.7 ]
	VISION NO. 92-NFPA 1917-2015 [ Section No. 6.3.1.7 ]
8.3.1.7	
Any bond other sys conducto	ding- <u>Bonding</u> screws, straps, or buses in the distribution panelboard or in stem components between the neutral and <u>the</u> equipment-grounding or shall be removed and discarded. except for the ground-to-neutral bond booard electrical power source.
Submitter Inf	ormation Verification
Submitter F	ull Name: [ Not Specified ]
Organizatio	n: [Not Specified]
Street Addr	ess:
City:	
State:	
Zip: Submittal D	ate: Fri Oct 18 14:39:43 EDT 2013
_	
Committee St	tatement
Committee Statement:	The essential requirement here is that there must be one and only one point of connection between the neutral and ground. This connection normally occurs at the power distribution panel that supplies shorepower to the ambulance. However, when AC power is provided from an inverter or generator, it is imperative that the inverter or generator provide a bond between ground and neutral.
	An exception should be added to this section to clarify that the ground-to- neutral bond should not be removed from the inverter or generator.
Response Message:	
-	No. 511-NFPA 1917-2013 [Section No. 8.3.1.7]

8.3.2.5         Cord-connected appliances shall be grounded by means of an approved cord with an equipment-grounding conductor and grounding attachment plug, <u>unless they are double-insulated tools or appliances supplied with an approved two-wire cord and plug</u> .         Submitter Information Verification         Submitter Full Name: [Not Specified ]         Organization:       [Not Specified ]         Organization:       [Not Specified ]         Street Address:       [City:         State:       [Submittal Date:         Fri Oct 18 14:41:11 EDT 2013         Committee       NEC section 250.114 provides an exception for double-insulated tools and appliances. It would be inappropriate for the ambulance standard to require modification of tools and appliances by installing a 3-wire cord and plug.         An exception should be added to make this section consistent with the NEC.	First Rev	vision No. 93-NFPA 1917-2013 [ Section No. 8.3.2.2.5 ]
Submitter Full Name: [Not Specified ]         Organization:       [Not Specified ]         Street Address:         City:         State:         Zip:         Submittal Date:       Fri Oct 18 14:41:11 EDT 2013         Committee Statement         McC section 250.114 provides an exception for double-insulated tools and appliances. It would be inappropriate for the ambulance standard to require modification of tools and appliances by installing a 3-wire cord and plug on devices that are legitimately and properly supplied with a 2-wire cord and plug.         An exception should be added to make this section consistent with the NEC.	Cord-con an equipr <u>double-in</u>	nected appliances shall be grounded by means of an approved cord with ment-grounding conductor and grounding attachment plug, unless they are
Organization:       [Not Specified]         Street Address:       [Not Specified]         City:       State:         Zip:       Submittal Date:       Fri Oct 18 14:41:11 EDT 2013         Committee Statement       NEC section 250.114 provides an exception for double-insulated tools and appliances. It would be inappropriate for the ambulance standard to require modification of tools and appliances by installing a 3-wire cord and plug on devices that are legitimately and properly supplied with a 2-wire cord and plug.         An exception should be added to make this section consistent with the NEC.         Response	Submitter Info	ormation Verification
Street Address:         City:         State:         Zip:         Submittal Date:       Fri Oct 18 14:41:11 EDT 2013         Committee Statement         Committee Statement:         NEC section 250.114 provides an exception for double-insulated tools and appliances. It would be inappropriate for the ambulance standard to require modification of tools and appliances by installing a 3-wire cord and plug on devices that are legitimately and properly supplied with a 2-wire cord and plug.         An exception should be added to make this section consistent with the NEC.         Response	Submitter F	ull Name: [ Not Specified ]
City: State: Zip: Submittal Date: Fri Oct 18 14:41:11 EDT 2013 Committee Statement NEC section 250.114 provides an exception for double-insulated tools and appliances. It would be inappropriate for the ambulance standard to require modification of tools and appliances by installing a 3-wire cord and plug on devices that are legitimately and properly supplied with a 2-wire cord and plug. An exception should be added to make this section consistent with the NEC. Response	Organization	n: [Not Specified]
State:         Zip:         Submittal Date:       Fri Oct 18 14:41:11 EDT 2013         Committee Statement:         NEC section 250.114 provides an exception for double-insulated tools and appliances. It would be inappropriate for the ambulance standard to require modification of tools and appliances by installing a 3-wire cord and plug on devices that are legitimately and properly supplied with a 2-wire cord and plug.         An exception should be added to make this section consistent with the NEC.         Response	Street Addre	ess:
Zip:         Submittal Date:       Fri Oct 18 14:41:11 EDT 2013         Committee Statement         MEC section 250.114 provides an exception for double-insulated tools and appliances. It would be inappropriate for the ambulance standard to require modification of tools and appliances by installing a 3-wire cord and plug on devices that are legitimately and properly supplied with a 2-wire cord and plug.         An exception should be added to make this section consistent with the NEC.         Response	City:	
Submittal Date:       Fri Oct 18 14:41:11 EDT 2013         Committee Statement       NEC section 250.114 provides an exception for double-insulated tools and appliances. It would be inappropriate for the ambulance standard to require modification of tools and appliances by installing a 3-wire cord and plug on devices that are legitimately and properly supplied with a 2-wire cord and plug.         An exception should be added to make this section consistent with the NEC.         Response	State:	
Committee Statement       NEC section 250.114 provides an exception for double-insulated tools and appliances. It would be inappropriate for the ambulance standard to require modification of tools and appliances by installing a 3-wire cord and plug on devices that are legitimately and properly supplied with a 2-wire cord and plug.         An exception should be added to make this section consistent with the NEC.         Response	Zip:	
Committee Statement:NEC section 250.114 provides an exception for double-insulated tools and appliances. It would be inappropriate for the ambulance standard to require modification of tools and appliances by installing a 3-wire cord and plug on devices that are legitimately and properly supplied with a 2-wire cord and plug.An exception should be added to make this section consistent with the NEC.Response	Submittal Da	ate: Fri Oct 18 14:41:11 EDT 2013
Statement:       appliances. It would be inappropriate for the ambulance standard to require modification of tools and appliances by installing a 3-wire cord and plug on devices that are legitimately and properly supplied with a 2-wire cord and plug.         An exception should be added to make this section consistent with the NEC.         Response	Committee St	atement
Response		appliances. It would be inappropriate for the ambulance standard to require modification of tools and appliances by installing a 3-wire cord and plug on devices that are legitimately and properly supplied with a 2-wire cord and
Response		An exception should be added to make this section consistent with the NEC.
Message:	Response Message:	
Public Input No. 512-NFPA 1917-2013 [Section No. 8.3.2.2.5]	Public Input	No. 512-NFPA 1917-2013 [Section No. 8.3.2.2.5]

First Revision No. 95-NFPA 1917-2013 [ Section No. 8.3.3.3.5 ]				
8.3.3.3.5 The ambulance body and exterior covering shall be considered bonded when the following criteria have been met: if the metal panels overlap or are welded to one another and are securely attached to the chassis frame by metal fasteners, metal straps, or welding.				
The metal panels overlap one another and are securely attached to the metal frame parts by metal fasteners or welding.				
The lower panel of the metal exterior covering is secured by metal fasteners at each cross member of the chassis, or the lower panel is bonded to the chassis by a metal strap.				
Submitter Information Verification				
Submitter Full Name: [ Not Specified ] Organization: [ Not Specified ] Street Address: City: State: Zip:				
Submittal Date: Fri Oct 18 14:46:32 EDT 2013				
Committee Statement				
<b>Committee</b> <b>Statement:</b> The intent of this section is to ensure proper electrical bonding. Because welding panels to one another provides a bond equal or superior to overlapping, the option of welding should be added to item (1) of this section.				
The intent of item (2) of this section is unclear, and the language is confusing. Ambulance exterior metal walls are typically one piece from top to bottom; there is not a separate lower panel. The cross members of the chassis (presuming that this is referring to the chassis frame cross members as opposed to the module support laterals) have no bearing whatsoever upon fastener location.				
Item (2) appears to have no clear relevance and therefore should be eliminated.				
Response Message: Public Input No. 513-NFPA 1917-2013 [Section No. 8.3.3.3.5]				

Ind-Fault Circuit Interrupters. age ac circuits <u>and receptacles</u> of the ambulance shall be protected by nd-fault circuit interrupters ( <u>GFCIs</u> ) in accordance with ANSI/UL 498, or Safety Attachment Plugs and Receptacles.
nd-fault circuit interrupters ( <u>GFCIs)</u> in accordance with ANSI/UL 498, or Safety Attachment Plugs and Receptacles. <b>mation Verification</b> I Name: [Not Specified ]
I Name: [ Not Specified ]
[Net Specified ]
[ Not Specified ]
s:
e: Fri Oct 18 14:43:31 EDT 2013
tement
Except for underwater pool lights, the NEC calls for GFCI protection only for receptacles. Because the intent of this ambulance standard is to comport compliance with the NEC, the NEC requirements should not be altered by this standard.
The language of this section should be revised to bring it into conformity with NEC section 210.8.



The instrumentation shall be permanently mounted at an operator's panel. [ 1901: 22.4.6.4] 8.5.7.4.1 The instruments shall be located in a plane facing the operator. [ 1901: 22.4.6.4.1] 8.5.7.4.2 Gauges, switches, or other instruments on this panel shall each have a label to indicate their function. [ 1901: 22.4.6.4.2] 8.5.7.4.3 The instruments and other line voltage equipment and controls shall be protected from mechanical damage and not obstructed by tool mounting or equipment storage. [ 1901: 22.4.6.4.3] 8.5.8 An instruction plate(s) that provides the operator with the essential power source operating instructions, including the power-up and power-down sequence, shall be permanently attached to the ambulance at any point where such operations can take place. [ 1901: 22.4.7] 8.5.9 Operation. 8.5.9.1 Provisions shall be made for placing the generator drive system in operation using controls and switches that are identified and within reach of the operator while seated in the driver's seat or standing upright on the ground. 8.5.9.2 Where the generator is driven by the chassis engine and engine compression brakes or engine exhaust brakes are furnished, they shall be automatically disengaged for generator operations. [1901: 22.4.8.2] 8.5.9.3\* Any control device used in the generator system power train between the engine and the generator shall be equipped with a means to prevent unintentional movement of the control device from its set position in the power generation mode. [ 1901: 22.4.8.3] 8.5.10 If there is permanent wiring on the ambulance that is designed to be connected to the power source, a power source specification label that is permanently attached to the ambulance at the operator's control station shall provide the operator with the information detailed in Figure 8.5.10 -8.6 Power Source Type Specific Requirements. 8.6.1\* Direct Drive (PTO) Generators. If the generator is driven by any type of PTO, it shall meet the requirements of 8.6.1.1 through 8.6.1.3 -8.6.1.1 The transmission's PTO port and PTO, or the split shaft PTO, and all associated driveshaft components shall be rated to support the continuous duty torque requirements of the generator's continuous duty rating as stated on the power source nameplate. [ 1901: 22.5.1.1] 8.6.1.2 The direct drive generator shall be mounted so that it does not change the ramp breakover angle, angle of departure, or angle of approach as defined by other components, and it shall not extend into the ground clearance area. [**1901:** 22.5.1.4] 8.6.1.3 The direct drive generator shall be mounted away from exhaust and muffler areas or provided with a heat shield to reduce operating temperatures in the generator area. [ 1901: 22.5.1.5]

8.6.2\* Hydraulically Driven Generators.

8.6.2.1*	C C C C C C C C C C C C C C C C C C C
	ed to activate the hydraulic generator system.
{ <b>1901:</b> 22.5.2.1}	
<u>8.6.2.2</u>	
source specification label system shall be provided.	
8.6.2.3 Hydraulic Comp	ionents.
8.6.2.3.1 A hydraulic system filter a readily accessible area. [	and strainer shall be provided and shall be located in a <b>1901:</b> 22.5.2.4.1]
8.6.2.3.2	
for pressure, size, vacuur	t the hydraulic pump manufacturer's recommendations m, and abrasion resistance. [ <b>1901:</b> 22.5.2.4.2]
<del>8.6.2.3.3</del>	
	eet the hydraulic pump manufacturer's recommendations e type of hose used. [ <b>1901:</b> 22.5.2.4.3]
Where the hydraulic hose be protected from chafing	
8.6.3* Fixed Auxiliary E	Engine Driven Generators.
If the generator is driven of 8.6.3.1 -through 8.6.	by a fixed auxiliary engine, it shall meet the requirement 3.9.4 -
<del>8.6.3.1</del>	
The generator shall be in enter the driving or patier 8.6.3.2*	stalled so that fumes, vapors, heat, and vibrations do no at compartment.
Generators rated at 8 kW	<sup>I</sup> or more shall be equipped with a high temperature em and a low oil (pressure or level) automatic shutdown
<del>8.6.3.3</del>	
requirements for ventilation	stalled in accordance with the generator manufacturer's on and service accessibility. [ <b>1901:</b> 22.5.3.3]
8.6.3.4	d in a compartment and the compartment doors need to
be open during its operat system to prevent its ope	ion, the generator shall be equipped with an interlock ration if the doors are not open, or the compartment sha comperature alarm. [ <b>1901:</b> 22.5.3.4]
	d in a compartment on a slide tray and the slide tray
must be in the extended (	or out position during operation, an interlock shall be ation unless the tray is in the correct position, or the
	uipped with a high temperature alarm. [ <b>1901:</b> 22.5.3.5]
8.6.3.6	
	nerators shall have readily accessible engine oil drain emote location for oil changing. [ <b>1901:</b> 22.5.3.6]
If the generator is located	d in a position on the ambulance where the operator
cannot see the instrumer level or positioned at a s	ntation and operate the controls while standing at ground pecifically designated operator station, an operating pane ientation, start and stop controls, and other controls

8.6.3.7.1

A visual and audible warning shall be provided in the ambulance cab, visible from the operator's seat to do the following: Visually indicate that the generator engine is operating Visually and audibly indicate that the generator engine is in operation when the ambulance ignition is off 8.6.3.7.2 The audible warning shall be permitted to be equipped with an override function that resets automatically when the ignition is cycled on. 8.6.3.7.3 The generator engine shall shut down and be prevented from restarting automatically when connection to an external source of electrical power ("shore power") is established. 8.6.3.8 Fuel System. 8.6.3.8.1 Fuel lines shall be protected from chafing at all wear points. [ 1901: 22.5.3.8.1] 8.6.3.8.2 If the fuel source is shared with the ambulance engine, a separate fuel pickup system shall be provided that is arranged to ensure that the generator cannot utilize more than 75 percent of the fuel tank's capacity. 8.6.3.9 Exhaust System. 8.6.3.9.1\* The exhaust piping and discharge shall be located or shielded to prevent thermal damage to the ambulance or equipment. 8.6.3.9.2 The exhaust shall be piped to the exterior of the vehicle and discharged at a location away from any operator's position. [1901: 22.5.3.9.2] 863921 The exhaust system for the generator shall comply with Section 5.6 -8.6.3.9.3 Where parts of the exhaust system are exposed so that they can cause injury to operating personnel, protective guards shall be provided. [ 1901: 22.5.3.9.3] 8.6.3.9.4 Silencing devices shall be provided and shall not create exhaust backpressure that exceeds the limits specified by the engine manufacturer. [ 1901: 22.5.3.9.4] 8.6.4 Line Voltage Power Derived from the Ambulance Low Voltage Power Supply Systems. If the power source derives its input energy from the ambulance low voltage electrical system, it shall meet the requirements of 8.6.4.1 - and 8.6.4.2 -8.6.4.1 The low voltage power supply system shall be installed in compliance with the requirements of Chapter 7 -8.6.4.2\* The alternator and/or battery system shall be adequate to provide power for continuous operation for a minimum of 2 hours at full output. [ 1901: 22.5.5.2] 8.6.5 Power Sources Requiring Elevated Engine Speed. If the power source requires the chassis engine to be operating at a specific fixed speed or a specific speed range, it shall meet the requirements of 8.6.5.1 through 8.6.5.3 -8.6.5.1 The main propulsion engine shall have a governor capable of maintaining the engine speed within the limits required by the power source to meet the frequency control, voltage control, and power output specifications. [1901: 22.5.6.1] 8.6.5.2

An interlock shall prevent engagement of the generator unless the parking brake is engaged and the transmission is in neutral or not connected to the drive wheels. [ 1901: 22.5.6.2] 8.6.5.3\* Where the chassis engine drives the generator and electronic engine throttle controls are provided, an interlock shall prevent engine speed control from any other source that would interfere with the generator while the generator is operating. [ 1901: 22.5.6.3] 8.6.6\* Waveform Created Electronically. If the power output waveform is electronically created (as with invertors and some generators), the purchaser shall specify whether modified sine wave or pure sine wave output is required. 8.7\* Portable Generator Installations. The generator shall comply with Article 445, "Generators," of NFPA 70 -[1901: 22.6] 8.7.1 Any portable generator that can be operated while mounted on the ambulance shall be as follows: Installed so that fumes, vapors, heat, excessive noise, and vibrations do not enter interior driving or crew compartments or damage the generator during operation Have the exhaust outlet located so that exhaust is directed away from any operator station located on the ambulance and guarded to protect the operator Installed in a location that directs the exhaust and heat at least 12 in. (300 mm) away from the fuel fill, oxygen system, entry doors, and ventilation inlets 8.7.2 If the portable generator is remotely mounted, it shall have a remote operator's control station that shall provide a means for starting and stopping the generator and monitoring the same instrumentation as is required for fixed power sources. [ 1901: 22.6.2] 8.7.3 Wiring for Portable Generator Installations. Wiring installed for the purpose of facilitating the distribution of power from a portable generator installation to fixed wiring on the ambulance shall conform to the additional requirements of 8.7.3.1 through 8.7.3.5 -8.7.3.1 Circuit conductors shall be sized in relation to the power source specification label rating and shall be protected by an overcurrent device commensurate with their amperage capacities. [ 1901: 22.6.3.1] 8.7.3.2 There shall be a single output connector cord with all of the conductors in the cord sized to carry a minimum of 115 percent of the nameplate amperage. [ **1901:** 22.6.3.2] 8.7.3.3 If there is not an overcurrent protection device at the power source, the output connector cord shall not exceed 72 in. (1830 mm) in length and shall be connected to an overcurrent protection device. [1901: 22.6.3.3] 8.7.3.4 The rating of an external main overcurrent protection device shall equal the rated amperage on the power source specification label or the next larger available size overcurrent protection device where so recommended by the power source

manufacturer. [ 1901: 22.6.3.4]

8.7.3.5

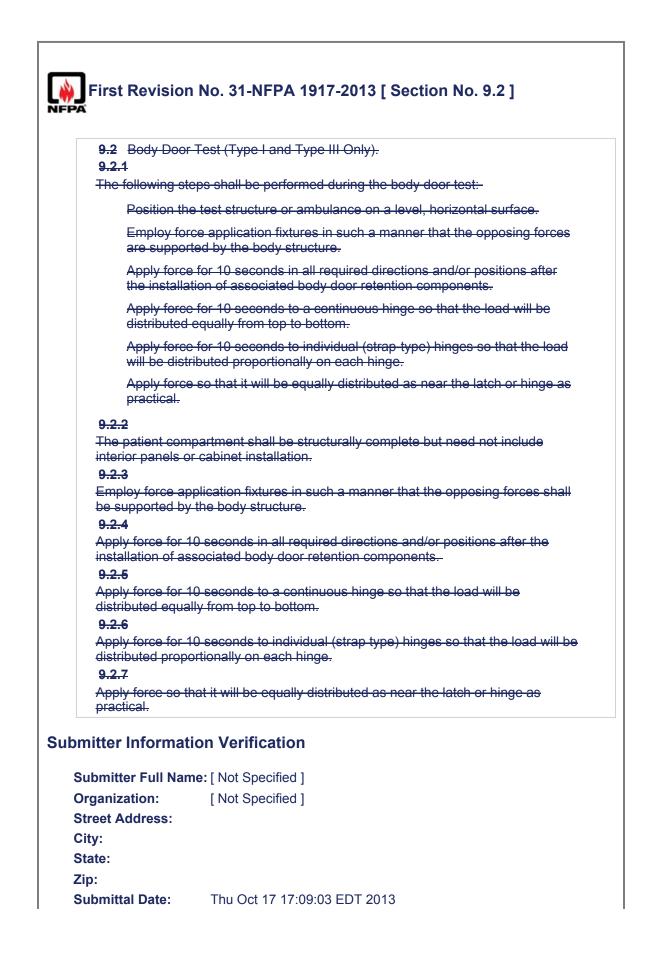
If a connecting plug is required, it shall be sized in relation to the system and conform to NEMA configurations for plugs. [ 1901: 22.6.3.5] 8.8 Transfer Switch Applications. 8.8.1 A transfer switch shall be required to isolate one power source from the other where a circuit(s) is intended to be supplied from more than one power source. [ **1901:** 22.7.2.1] 8.8.2 Transfer equipment, including transfer switches, shall operate such that all ungrounded conductors of one power source are disconnected before any ungrounded conductors of the second power source are connected. [ **1901:** 22.7.2.2] 8.8.3 The neutral conductor shall be switched through the transfer switch. [ **1901:** 22.7.2.3] 8.9 Power Supply Assembly. 8.9.1 The conductors used in the power supply assembly between the output terminals of the power source and the main overcurrent protection device shall not exceed 12 ft (4 m) in length. [ 1901: 22.8.1] 8.9.2 All power supply assembly conductors, including neutral and grounding conductors, shall have an equivalent amperage rating and shall be sized to carry not less than 115 percent of the amperage of the nameplate current rating of the power source. [ 1901: 22.8.2] 8.9.3\* If the power supply assembly connects to the vibrating part of a generator (not a connection on the base), the conductors shall be flexible cord or other finestranded conductors enclosed in metallic or nonmetallic liquidtight flexible conduit rated for wet locations and temperatures not less than 194°F (90°C). [ 1901: 22.8.3] 8.10 Overcurrent Protection. Manually resettable overcurrent devices shall be installed to protect the line voltage electrical system components. [ 1901: 22.9] 8.10.1 Power Source Protection. A main overcurrent protection device shall be provided that is either incorporated in the power source or connected to the power source by a power supply assembly. [ 1901: 22.9.1] 8.10.1.1 The size of the main overcurrent protection device shall not exceed 100 percent of the rated amperage stated on the power source specification label or the rating of the next larger available size overcurrent protection device, where so recommended by the power source manufacturer. [1901: 22.9.1.1] 8.10.1.2 If the main overcurrent protection device is subject to road spray, the unit shall be housed in a Type 4 rated enclosure. [1901: 22.9.1.2] 8.10.2 Branch Circuit Overcurrent Protection. Overcurrent protection devices shall be provided for each individual circuit and shall be sized at not less than 15 amperes in accordance with 240.4, "Protection of Conductors," of NFPA 70 . [ 1901: 22.9.2] 8.10.2.1 Any panelboard shall have a main breaker where the panel has six or more individual branch circuits or the power source is rated 8 kW or larger. [ **1901:** 22.9.2.1] 8.10.2.2

	rrent protection device shall be marked with a label to identify the
	e circuit it protects. [ 1901: 22.9.2.2]
<u>8.10.2.3</u>	
60 percent of that circuit sh	reuits shall be provided for any large appliance or device that requires r more of the rated capacity of the circuit to which it is connected, and nall serve no other purpose. [ <b>1901:</b> 22.9.2.3]
8.10.3 Pan	
	ver sources shall be hardwired to a permanently mounted panelboard of the following conditions exists:-
	voltage power connections are made through receptacles on the source, and the receptacles are protected by integrated overcurrent <del>s.</del>
	ne circuit is hardwired to the power source, which is protected by an ted overcurrent device.
[ <del>1901:</del> <del>22.9</del> <b>8.10.3.1</b>	<del>.3]</del>
	nall be visible and located so that there is unimpeded access to the controls. [ <b>1901:</b> 22.9.3.1]
All panelboar { <b>1901:</b> 22.9. 8.10.3.3	rds shall be designed for use in their intended location. .3.2]
The panel(s)	shall be protected from mechanical damage, tool mounting, and torage. [ <b>1901:</b> 22.9.3.3]
ambulance n	ower source is 120/240 volts, and 120-volt loads are connected, the nanufacturer or line voltage system installer shall consider load the extent that it is possible.
Submitter Inform	nation Verification
Submitter Full N	Name: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Mon Jan 06 11:21:19 EST 2014
Committee State	ement
Committee Statement:	The committee is deleting these sections as they have developed new text in a new chapter to address the subject of generators.
	Please delete all associated annex material with these sections.
Response Message:	

8.12.5.2 Receptacles sh	all be near flush, vertically mounted.
nitter Informa	tion Verification
	ne: [Not Specified ]
Organization:	[Not Specified ]
Street Address:	
City:	
-	
City: State: Zip:	

8.6.5.9.2	is do or other than single phase, that information shall also be
	is dc or other than single phase, that information shall also be abel. [ <b>1901:</b> 22.11.5.5.2]
bmitter Informat	ion Verification
Submitter Full Nan	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Oct 31 15:05:11 EDT 2013
ommittee Statem	ent
Committee Statem	ent: This change was editorial in nature.
Response Messag	e:
Dublic Input No. 61	NFPA 1917-2013 [Section No. 8.12.5.10.2]

-	
First Revision	n No. 158-NFPA 1917-2013 [ Section No. 8.12.5.12 ]
8.6.5.11 Receptacles use	ed for dc voltages shall be rated for dc service. [1901:22.11.5.7]
ıbmitter Informat	ion Verification
Submitter Full Nan	ne: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip: Submittal Date:	Thu Oct 31 15:06:51 EDT 2013
ommittee Statemo	ent
Committee Statem	ent: These changes were editorial in nature.
Response Message	e:
Public Input No. 60-	NFPA 1917-2013 [Section No. 8.12.5.12]



Committee Statemer	it
Committee Statement: Response Message:	The committee has deleted this as it is no longer part of the requirements.

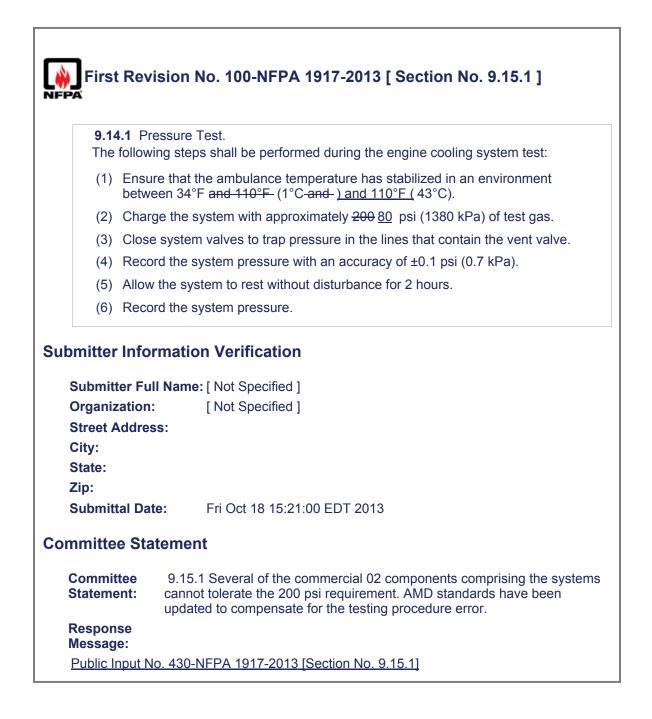
in.

🙀 First Revis	ion No. 99-NFPA 1917-2013 [ Section No. 9.5.3.1
Excluding any	Sub-Sections] ]
The three to in which the	ests defined in 9.4.3.2 through 9.4.3.4.4 shall be performed in the order y appear.
Submitter Inforr	nation Verification
Submitter Full	Name: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address	:
City:	
State:	
Zip:	
Submittal Date	: Fri Oct 18 15:11:44 EDT 2013
Committee State	ement
Committee Statement:	The committee has made this change to allow for a potential to increase the number of tests that need to be done, whereas the way the requirement is written now is restrictive to only three.
Response Message:	
Public Input No	422-NFPA 1917-2013 [Section No. 9.5.3.1 [Excluding any Sub-Sections]]

First Revisio	n No. 176-NFPA 1917-2013 [ Section No. 9.9.6.2 ]
FPA	
9.8.6.2	
results of the te	any power source greater than $38$ kW shall be witnessed, and the ests of the power source shall be certified by an independent third- on organization.
ubmitter Informa	tion Verification
Submitter Full Na	me: [ Not Specified ]
Organization:	[ Not Specified ]
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Dec 17 13:56:02 EST 2013
ommittee Statem	nent
Committee Statement:	This change was made based on the addition of Chapter 10 and is done for consistency.
Response Message:	

in.

First	Revision No. 189-NFPA 1917-2014 [ New Section after 9.9.6.3.9 ]
	7 Inverter Test. a ambulance has an inverter, then the ambulance inverter shall be tested as ws:
<u>(1)</u>	The ambulance engine shall be running during the inverter test.
<u>(2)</u>	The inverter shall be subjected to a load equal to the manufacturer's nominal listed power output for a minimum of 1 hour.
<u>(3)</u>	If the manufacturer has a specific full power output test, that test shall be performed.
<u>(4)</u>	A load bank shall be permitted to be used.
<u>(5)</u>	The test shall be considered a failure if the output of the inverter drops below the manufacturer's specifications or more than 10 percent of nominal listed output.
	Information Verification
	er Full Name: [Not Specified ]
Organiz Stroot A	ation: [Not Specified]
City:	
State:	
Zip:	
	Thu Jan 02 14:15:55 EST 2014
Committe	e Statement
Commit Stateme	
Respon Messag	



	apter 10 Line Voltage Power Source
<u>10</u> .	<u>1</u> Line Voltage Power Derived from an Inverter
	<u>.1.1</u>
	ne power source derives its input energy from an inverter, the power source
	Ill meet the requirements of <u>10.1.2</u> through <u>10.1.4</u> .
-	<u>1.2</u>
	e low voltage power supply system shall be installed in compliance with the
-	uirements of Chapter 7.
	1.3
	e alternator and the battery system shall be adequate to provide power for atinuous operation for a minimum of 1 hour at nominal listed power output.
	1.4
-	e inverter shall be tested to the requirements of 9.8.7
	2 Generators Rated Below 8 kW General Requirements.
	2.1
	ne power source is mechanically driven and mounted on the vehicle, it shall
	nply with <u>NFPA 70</u> , Article 445.
	2.2
	he generator is less than 8 kW, it shall meet the requirements of
	.2.2.1 through 10.2.2.8 .
<u>10</u> .	2.2.1
Acc	cess shall be provided to permit both routine maintenance and removal of the
<u>pov</u>	ver source for major servicing. [ 1901: 22.4.4]
-	.2.2.2
	e power source shall be located so that neither it nor its mounting brackets
	erfere with the routine maintenance of the ambulance.
	<u>2.2.3</u>
	ne power source is rated at less than 3 kW, a "Power On" indicator shall be vided. [1901: 22.4.6.1]
	<u>.2.2.4</u>
	he power source is rated at 3 kW or more but less than 8 kW, a voltmeter shall
	provided. [1901: 22.4.6.2]
	2.2.5
	e rating on the power source specification label shall not exceed the declared
	ng from the power source manufacturer. [ <b>1901:</b> 22.4.3.2]
10.	2.2.6
	instruction plate(s) that provides the operator with the essential power source
	erating instructions, including the power-up and power-down sequence, shall b
	manently attached to the ambulance at any point where such operations can
	<u>e place. [ 1901: 22.4.7]</u>
	2.2.7
	nere is permanent wiring on the ambulance that is designed to be connected to
the	power source, a power source specification label that is permanently attached

Power Source Specifications         Operational Category       Continuous Duty Rating         Rated voltage(s) and type (ac or dc)       Phase         Phase       Rated frequency         Rated amperage       Continuous rated watts         Power source engine speed       Power source engine speed
10.2.2.8
<ul> <li>10.2.2.8 The power source. at any load. shall not produce a noise level that exceeds 90 dBA in any driving compartment or patient compartment with windows and doors closed or at any operator's station on the ambulance. </li> <li>10.3 Power Sources of 8kW or Larger. Power sources of 8 kW or larger shall meet the requirements of NFPA 1901, 22.4.3.1. 10.3.1 Instrumentation shall meet the requirements of NFPA 1901, 22.4.6.3 through 22.4.6.4.3. 10.3.2 Operation shall meet the requirements of NFPA 1901, 22.4.8. 10.3.3 Power Source—Type Specific Requirements. 10.3.1 Direct-Drive (PTO) Generators. If the generator is driven by any type of power take-off (PTO), it shall meet the requirements of NFPA 1901, 22.5.1. 10.3.2. Hydraulically Driven Generators. If the generator is driven using hydraulic components, it shall meet the requirements of NFPA 1901, 22.5.2. 10.3.3 Fixed Auxiliary Engine—Driven Generators 8 kW and Larger. If the generator is driven by a fixed auxiliary engine, it shall meet the requirements of NFPA 1901, 22.5.3. 10.4 Wiring for Portable Generator.</li></ul>
Installations shall meet the requirements of NFPA 1901, 22.6.3.
Supplemental Information
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FR_197_Chapter_10_nw.kh.docx
Submitter Information Verification
Submitter Full Name: [ Not Specified ]
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Street Address:
City:
State:
Zip:
Submittal Date: Mon Jan 06 11:23:20 EST 2014
Committee Statement

Committee Statement:	The committee has developed new text for this chapter to address the subject of generators.
	Please see attached document for new text.
Response Message:	
Public Input No	<u>. 59-NFPA 1917-2013 [Section No. 8.6.4.2]</u>
Public Input No	. 130-NFPA 1917-2013 [New Section after 8.5.3]
	. 131-NFPA 1917-2013 [Sections 8.5.4, 8.5.5, 8.5.6, 8.5.7, 8.5.8, 8.5.9,
<u>8.5.10,]</u>	
	. 132-NFPA 1917-2013 [Section No. 8.6]
Public Input No	<u>. 133-NFPA 1917-2013 [Section No. 8.7]</u>
Public Input No	. 135-NFPA 1917-2013 [Section No. 8.8]
Public Input No	. <u>136-NFPA 1917-2013 [Section No. 8.9]</u>
Public Input No	<u>. 137-NFPA 1917-2013 [Section No. 8.10]</u>
Public Input No	. 208-NFPA 1917-2013 [Section No. 8.5.11]
Public Input No	<u>. 360-NFPA 1917-2013 [Section No. 8.5]</u>
Public Input No	. 361-NFPA 1917-2013 [Section No. 8.6]
Public Input No	<u>. 362-NFPA 1917-2013 [Section No. 8.7]</u>
Public Input No	. 363-NFPA 1917-2013 [Section No. 8.8]
Public Input No	<u>. 364-NFPA 1917-2013 [Section No. 8.9]</u>
Public Input No	<u>. 365-NFPA 1917-2013 [Section No. 8.10]</u>
	. 480-NFPA 1917-2013 [Sections 8.5.3, 8.5.4, 8.5.5, 8.5.6, 8.5.7, 8.5.8,
<u>8.5.9, 8]</u>	
Public Input No	<u>. 481-NFPA 1917-2013 [Section No. 8.6]</u>
Public Input No	. 482-NFPA 1917-2013 [Section No. 8.7]
Public Input No	<u>. 483-NFPA 1917-2013 [Section No. 8.8]</u>
Public Input No	. 484-NFPA 1917-2013 [Section No. 8.9]
Public Input No	. 485-NFPA 1917-2013 [Section No. 8.10]

#### **Chapter 10 Line Voltage Power Source**

#### **10.1 Line Voltage Power Derived from an inverter**

**10.1.1** If the power source derives its input energy from an inverter, it shall meet the requirements of 10.1.2 through 10.1.4

**10.1.2** The low voltage power supply system shall be installed in compliance with the requirements of Chapter 7.

**10.1.3** The alternator and battery system shall be adequate to provide power for continuous operation for a minimum of 1 hour at nominal listed power output.

10.1.4 The inverter shall be tested to the requirements of section 9.9.7

#### 10.2 Generators rated below 8 KW general requirements.

**10.2.1** If the power source is mechanically driven and mounted on the vehicle, it shall comply with Article 445, "Generators," of *NFPA 70*.

**10.2.2** If the generator is less than 8 kw it shall meet the requirements of sections 10.2.2.1 through 10.2.2.8

**10.2.2.1** Access shall be provided to permit both routine maintenance and removal of the power source for major servicing. [**1901**:22.4.4]

**10.2.2.2** The power source shall be located such that neither it nor its mounting brackets interfere with the routine maintenance of the ambulance.

**10.2.2.3** If the power source is rated at less than 3 kW, a "Power On" indicator shall be provided. **[1901**:22.4.6.1]

**10.2.2.4** If the power source is rated at 3 kW or more but less than 8 kW, a voltmeter shall be provided. **[1901**:22.4.6.2]

**10.2.2.5** The rating on the power source specification label shall not exceed the declared rating from the power source manufacturer. [**1901**:22.4.3.2]

**10.2.2.6** An instruction plate(s) that provides the operator with the essential power source operating instructions, including the power-up and power-down sequence, shall be permanently attached to the ambulance at any point where such operations can take place. **[1901**:22.4.7]

**10.2.2.7** If there is permanent wiring on the ambulance that is designed to be connected to the power source, a power source specification label that is permanently attached to the ambulance at the operator's control station shall provide the operator with the information detailed in Figure 10.2.2.7

## \*\*\*\*INSERT FIGURE HERE\*\*\*\* FIGURE 10.2.2.7 Power Source Specification Label. [1901:Figure 22.4.9]

**10.2.2.8** The power source, at any load, shall not produce a noise level that exceeds 90 dBA in any driving compartment or patient compartment with windows and doors closed or at any operator's station on the ambulance.

**10.3** Power sources of 8 kW or larger shall meet the requirements of NFPA 1901 Section 22.4.3.1

**10.3.1** Instrumentation shall meet the requirements of NFPA 1901 section 22.4.6.3-22.4.6.4.3 **10.3.2** Operation shall meet the requirements of NFPA 1901 section 22.4.8

# **10.3.3 Power Source–Type Specific Requirements.**

**10.3.3.1** Direct Drive (PTO) Generators. If the generator is driven by any type of PTO, it shall meet the requirements of NFPA 1901 section 22.5.1

**10.3.3.2** Hydraulically Driven Generators. If the generator is driven using hydraulic components, it shall meet the requirements of NFPA 1901 Section 22.5.2

**10.3.3.3** Fixed Auxiliary Engine Driven Generators 8 kw and larger. If the generator is driven by a fixed auxiliary engine, it shall meet the requirements of NFPA 1901 22.5.3

10.4 Wiring for Portable Generator Installations shall meet the requirements of NFPA 1901 section 22.6.3.

# **Chapter 10 Line Voltage Power Source**

# 10.1 Line Voltage Power Derived from an Inverter

# 10.1.1

If the power source derives its input energy from an inverter, the power source shall meet the requirements of 10.1.2 through 10.1.4.

# 10.1.2

The low voltage power supply system shall be installed in compliance with the requirements of Chapter 7.

# 10.1.3

The alternator and the battery system shall be adequate to provide power for continuous operation for a minimum of 1 hour at nominal listed power output.

# 10.1.4

The inverter shall be tested to the requirements of 9.9.7.

## 10.2 Generators Rated Below 8 kW General Requirements.

## 10.2.1

If the power source is mechanically driven and mounted on the vehicle, it shall comply with *NFPA 70*, Article 445.

# 10.2.2

If the generator is less than 8 kW, it shall meet the requirements of 10.2.2.1 through 10.2.2.8.

# 10.2.2.1

Access shall be provided to permit both routine maintenance and removal of the power source for major servicing. [**1901**:22.4.4]

## 10.2.2.2

The power source shall be located so that neither it nor its mounting brackets interfere with the routine maintenance of the ambulance.

## 10.2.2.3

If the power source is rated at less than 3 kW, a "Power On" indicator shall be provided. **[1901**:22.4.6.1]

## 10.2.2.4

If the power source is rated at 3 kW or more but less than 8 kW, a voltmeter shall be provided. [**1901**:22.4.6.2]

## 10.2.2.5

The rating on the power source specification label shall not exceed the declared rating from the power source manufacturer. **[1901**:22.4.3.2]

## 10.2.2.6

An instruction plate(s) that provides the operator with the essential power source operating instructions, including the power-up and power-down sequence, shall be permanently attached to the ambulance at any point where such operations can take place. [1901:22.4.7]

## 10.2.2.7

If there is permanent wiring on the ambulance that is designed to be connected to the power source, a power source specification label that is permanently attached to the ambulance at the operator's control station shall provide the operator with the information detailed in Figure 10.2.2.7.

## \*\*\*\*INSERT FIGURE HERE\*\*\*\*

## FIGURE 10.2.2.7 Power Source Specification Label. [1901: Figure 22.4.9]

## 10.2.2.8

The power source, at any load, shall not produce a noise level that exceeds 90 dBA in any driving compartment or patient compartment with windows and doors closed or at any operator's station on the ambulance.

## 10.3 Power Sources of 8kW or Larger

Power sources of 8 kW or larger shall meet the requirements of NFPA 1901, 22.4.3.1.

## 10.3.1

Instrumentation shall meet the requirements of NFPA 1901, 22.4.6.3 through 22.4.6.4.3.

# 10.3.2

Operation shall meet the requirements of NFPA 1901, 22.4.8.

# 10.3.3 Power Source–Type Specific Requirements.

# 10.3.3.1 Direct-Drive (PTO) Generators.

If the generator is driven by any type of power take-off (PTO), it shall meet the requirements of NFPA 1901, 22.5.1.

# 10.3.3.2 Hydraulically Driven Generators.

If the generator is driven using hydraulic components, it shall meet the requirements of NFPA 1901, 22.5.2.

# 10.3.3.3 Fixed Auxiliary Engine–Driven Generators 8 kW and Larger.

If the generator is driven by a fixed auxiliary engine, it shall meet the requirements of NFPA 1901, 22.5.3.

# **10.4 Wiring for Portable Generator.**

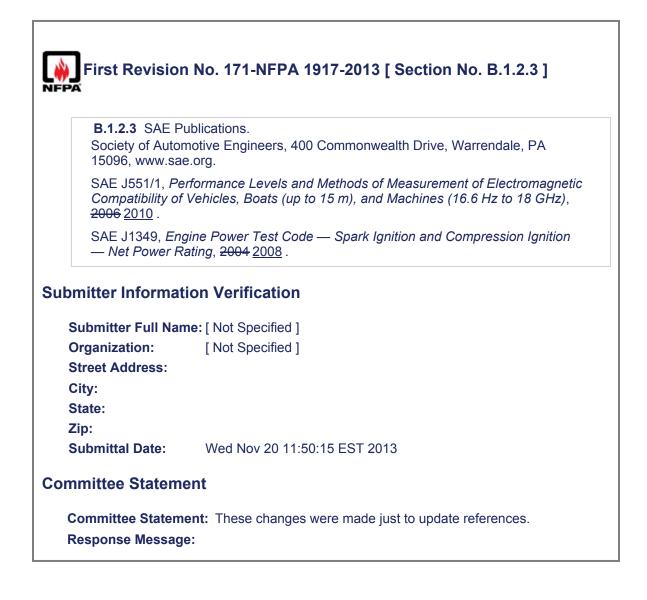
Installations shall meet the requirements of NFPA 1901, 22.6.3.

A.4.12.3	Global FR-109 Hide Delete
	Global FR-178 Hide Delete
their ambulance ambulance ope ambulance cra published by th standard recog speed while tra fast the ambula Where the ambula rear axle, an au of these might	ght want to specify a speed limitation feature as a tool to augment e driver safety policy. Information and recommendations on eration training can be found in NFPA 1451. Information on sh statistics can be found in <u>Analysis of Ambulance Crash Data</u> . The NFPA Fire Protection Research Foundation. Although this prizes the need for the ambulance to be able to accelerate to a high aveling on public roads, caution should be taken with regard to how ance can travel. Dulance has to operate off paved roads, all-wheel drive, a two-speed uxiliary transmission, an automatic transmission, or any combination enhance the ambulance's off road capability.
	me: [ Not Specified ]
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First Revision No. 161-NFPA 1917-2013 [Section No. A.5.14]	
A.5.14	
Purchasers might want to consider specifying that all mirror head faces be independently adjustable from the driver's position (if this feature is available from the OEM). Medium- and heavy-duty vehicles (>14,400 GVW) should be equipped with a camera at the rear of the vehicle that can be seen and monitored by the driver when the vehicle is in reverse.	
Submitter Information Verification	
Submitter Full Name: [ Not Specified ]	
Organization: [Not Specified]	
Street Address:	
City:	
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Submittal Date: Wed Nov 13 15:09:52 EST 2013	
Committee Statement	
<b>Committee</b> <b>Statement:</b> The committee has made this change as with larger ambulances, when in reverse, it is near impossible to see what is immediately behind the vehicle However, when in the reverse position the ambulance camera automaticall activates and the person is easily visible to the driver. The committee agree with the submitters intent but have chosen to add it as an annex item instead.	y
Response Message:	
Public Input No. 313-NFPA 1917-2013 [New Section after 5.14]	
4	

	e container <u>meeting 29 CFR 1910.1030 (OSHA)</u> should be a fixed container capable of withstanding a moderate crash without
	ontents into the patient compartment.
	<b>ne:</b> [ Not Specified ] [ Not Specified ]
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Committee Stateme	
City: State: Zip: Submittal Date:	Wed Nov 13 12:05:12 EST 2013
Submitter Full Nam Organization: Street Address:	ne: [ Not Specified ] [ Not Specified ]
ubmitter Informat	on Verification
<u>NFPA 1981 . St</u> (SCBA) for Eme	andard on Open-Circuit Self-Contained Breathing Apparatus rgency Services, 2013 edition.
NFPA 1901, Sta	ndard for Automotive Fire Apparatus, <del>2009</del> 2016 edition.
<u>NFPA 1451 . Sta Training Program</u>	andard for a Fire and Emergency Service Vehicle Operations n . 2013 edition.
NFPA 70 <sup>®</sup> , Natio	onal Electrical Code <sup>®</sup> , <del>2011</del> 2014 edition.
Analysis of Amb	ulance Crash Data , 2011.
<b>B.1.1</b> NFPA Pu National Fire Pro 7471.	blications. otection Association, 1 Batterymarch Park, Quincy, MA 02169-



	overnment Publications. nt Printing Office, Washington, DC 20402.
	f Federal Regulations, Part 1910.1030, "Bloodborne Pathogens,"
Title 49, Code o	of Federal Regulations, Part 571, <del>Subpart B,</del> "Federal Motor Vehicle Is" (FMVSS) <del>, No. 210, "Seat belt assembly anchorages," 2012.</del>
<u> </u>	
bmitter Informat Submitter Full Nan	ne: Michael Beady
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