

## **State Laws requiring the GSA KKK specifications**

### Chapter 401.26, Florida Statutes

Vehicle permits for basic life support and advanced life support services.--

(1) Every licensee shall possess a valid permit for each transport vehicle, advanced life support nontransport vehicle, and aircraft in use....A permit is not required for an advanced life support nontransport vehicle that is intended to be used for scene supervision, incident command, or the augmentation of supplies.

(2) To receive a valid permit, the applicant must submit a completed application form for each vehicle or aircraft for which a permit is desired, pay the appropriate fees established as provided in s. 401.34, and provide documentation that each vehicle or aircraft meets the following requirements as established by rule of the department; the vehicle or aircraft must:

- (a) Be furnished with essential medical supplies and equipment which is in good working order.
- (b) Meet appropriate standards for design and construction.
- (c) Be equipped with an appropriate communication system.
- (d) Meet appropriate safety standards.
- (e) Meet sanitation and maintenance standards.
- (f) Be insured for an appropriate sum against injuries to or the death of any person arising out of an accident.

### Chapter 64J-1.007, Florida Administrative Code,

(3)All transport vehicles permitted to licensed services must meet the vehicle design specifications, except for color schemes and insignias, as listed in United States General Services Administration (GSA)-KKK-1822, Federal Specifications for Ambulances as mandated by Section 401.35(1)(d), F.S., applicable to the year of the manufacture of the vehicle.

### GSA KKK 1822, Federal Specifications for Ambulance

#### 1.1.2 PURPOSE.

The purpose of this document is to describe ambulances which are authorized to display the "Star of Life" symbol. It establishes minimum specifications, test parameters, and essential criteria for ambulance design, performance, equipment, appearance, and to provide a practical degree of standardization. The object is to provide ambulances that are nationally recognized, properly constructed, easily maintained, and, when professionally staffed and provisioned, will function reliably in pre-hospital or other mobile emergency medical service.

#### 3.1.1 DESIGN.

The ambulance and the allied equipment furnished under this specification shall be the manufacturer's current commercial vehicle of the Type, Class, and Configuration specified. The ambulance shall be complete with the operating accessories, as specified herein. It shall be furnished with such modifications and attachments as may be necessary to enable the vehicle to function reliably and efficiently in sustained operation. The

design of the vehicle and the specified equipment shall permit accessibility for servicing, replacement, and adjustment of component parts and accessories with minimum disturbance to other components and systems. The term “heavyduty”, as used to describe an item, shall mean in excess of the standard quantity, quality, or capacity and represents the best, most durable, strongest, etc., part, component, system, etc., that is commercially available on the OEM chassis.

***Please find below the GSA Specifications staff found when considering an ambulance with an alternative or hybrid fuel source.***

### 3.4 VEHICLE OPERATION, PERFORMANCE, AND PHYSICAL CHARACTERISTICS.

#### 3.4.1 OPERATION AND PERFORMANCE.

Unless otherwise specified by the purchaser, all requirements in Section 3.4 shall be met with the ambulance loaded to meet or exceed the minimum specified payload including all specified equipment and devices installed and operating at the maximum power-consuming condition, i.e., air conditioning, lights, radio(s), etc., with the chassis performing in accordance with the specified chassis manufacturer’s technical data. The vehicle shall be capable of operating safely and efficiently under environmental conditions outlined herein or as specified in the invitation for bid, contract, or order.

#### 3.4.2 TEMPERATURE CONDITIONS.

The ambulance, including all required systems, equipment, and permanently installed medical devices (except when medical devices are regulated by another agency) furnished inside the ambulance, when serviced and maintained in accordance with the OEM manufacturer’s recommendations (4.4), shall be capable of being stored without damage or deterioration in ambient temperatures of -34° C to 52° C (- 30° F to 125° F). Testing shall be in accordance with AMD Standard 011.

1) The ambulance and ambulance equipment shall be cold soaked for 6 hours at -34° C (-30° F) followed by a 1 hour cold soak at -18° C (0° F). All of the vehicle’s non-engine powered equipment systems shall then be tested and operated at the -18° C (0° F) temperature. The engine shall then be started and all remaining chassis and ambulance systems shall be tested.

2) The ambulance and ambulance equipment shall be heat soaked at 53° C (125° F) for 6 hours followed by 1 hour heat soak at 43° C (110° F). All the vehicles non-engine powered systems shall then be tested and operated at the 43° C (110° F) temperature. The engine shall then be started and all remaining chassis systems and equipment shall be tested.

Medical devices, such as resuscitation and suctioning apparatus, shall be cold tested for the required flow performance on 12 volt DC vehicle power and 115 volt AC power modes (see 3.12.1.1).

Type certification from medical and other equipment manufacturers is acceptable.

#### 3.4.3 NOISE AND SOUND LEVEL LIMITS, EXTERIOR.

Unless more stringent sound levels are regulated by the states and municipalities where the ambulance will be based, the exterior noise level produced by the vehicle, except siren, shall not exceed Federal regulations.

#### 3.4.4 VEHICLE PERFORMANCE.

The ambulance shall provide a smooth, stable ride, with minimum noise and without abnormal vibration. The ambulance to be certified shall be tested under conditions in paragraph 4.4.4.

#### 3.4.5 BRAKES.

The ambulance braking system as delivered to the user shall comply to performance values required by Federal Motor Vehicle Safety Standards (FMVSS), and when available from the chassis manufacturer shall include ABS.

#### 3.4.6 SPEED.

The vehicles shall be capable of a sustained speed of not less than 105 km/hr (65 mph) over dry, hard surfaced, level roads, at sea level, and passing speeds of 113 km/hr (70 mph) when tested under normal ambient conditions.

#### 3.4.7 ACCELERATION.

Vehicle shall have a minimum average acceleration, at sea level, of 0-88 km/hr (0-55 mph) within 25 seconds. Test shall be performed under normal ambient conditions. Test under 4.4.4.

#### 3.4.8 GRADEABILITY.

At full payload, the vehicle shall be capable of meeting the following requirements. The determination shall be made by actual test or chassis manufacturer's certified computer prediction or chassis manufacturer's certification.

##### 3.4.8.1 GRADEABILITY AT SPEED.

Minimum gradeability at speed shall be 89 km/hr (55 mph) on a 3% (1.72 degrees) grade.

##### 3.4.8.2 MINIMUM LOW SPEED GRADEABILITY.

The minimum low speed gradeability of 8 km/hr (5 mph) on a 35% (19.3 degrees) grade is required for Class I (4x2) vehicles and 45% (24.2 degrees) grade for Class 2 (4x4) vehicles in the low 4x4 range.

#### 3.4.9 FUEL RANGE.

Unless otherwise specified (see 6.2-e), the ambulance shall be capable of being driven for at least 402 km (250 miles) without refueling under the conditions in 4.4.4.

#### 3.4.10 FORDING.

The vehicle shall be capable of three fordings, without water entering patient and equipment compartments while being driven through a minimum of 20 cm (8 in.) of water, at speeds of 8 km/hr (5 mph), for a distance of at least 30.5 m (100 feet). Test under 4.4.4.