2 July 2013

CHANGE NOTICES ARE NOT CUMULATIVE AND SHALL BE RETAINED UNTIL SUCH TIME AS THE STANDARD IS REVISED

Federal Specification for the Star-of-Life Ambulance
KKK-A-1822F
Dated 1 August 2007
Change Notice 5

The following changes, which form a part of FED-STD KKK-A-1822F, dated 1 August 2007, are approved by the General Services Administration, for use by all agencies.

If you have technical questions regarding this change notice, please contact John McDonald at jmcdonald@gsa.gov.

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For sections 3.1.3, 3.5.2, 3.10.8, 3.12 and 6.4 delete the existing text and replace with the text in this change notice.

For section 5.2.5 add the text in this change notice.

3.1.3 TYPE II AMBULANCE (10,000 and under GVWR).

Type II ambulance shall be a Van with Integral Cab-Body.

3.5.2 PAYLOAD CAPACITY.

The ambulance shall not be operated in an overloaded condition. EMSPs should determine that the actual load, to be placed on the vehicle, does not exceed the total usable payload as manufactured. Any additional items attached to, or carried on the vehicle by the EMSP will reduce the combined weight of occupants and Cargo/Equipment that comprise the total usable payload. Additional weight added, resulting from specified options, will reduce the available payload per vehicle.

Occupant weight shall be accommodated at 171 lbs. for each designated patient and seating position.

The required minimum payload (patients, passengers and cargo/equipment) per vehicle without optional permanently mounted equipment shall be as follows:

1. Single rear wheeled, van ambulances (Type II)—1500 lbs.
2. Dual rear wheeled, modular ambulances (Type I or III)—1750 lbs.
3. Additional duty modular ambulances (Type I AD or III AD)—2,250 lbs.

Each ambulance's payload capacity shall be determined by completing an NTEA UltraMod spreadsheet (available at www.ntea.com). A copy of the spreadsheet shall be included in the handbook of instructions. The following shall be shown on the spreadsheet:

1. Completed vehicle at curb weight
2. 171 pounds at the horizontal center of each patient location and at each seated position
3. The maximum remaining Cargo/Equipment capacity located at the horizontal center of the patient compartment that does not result in weights that exceed the vehicle's GVWR, front or rear GAWR

The total usable Cargo/Equipment capacity value of Figure 2, item 10 shall be displayed on the certification and payload signage as shown in Figure 1. The label shall be located in a conspicuous location in the ambulance.

FIGURE 1 – Certification & Payload Signage
The label shall be mounted on the body (module) interior in a conspicuous location.

- The label shown here is suggested format.
- Deviations in dimensions are acceptable.
- All text must be included.
- Exceptions, when taken, shall be documented in the handbook of instructions
- No text shall be added to this label

CERTIFIED "STAR OF LIFE" AMBULANCE

Date of Manufacture_____
Mfg By _____
Address _____
City_____State_____Zip _____

This ambulance conforms to Federal Specification KKK-A-1822 in effect on the date the ambulance was contracted for.

Exceptions taken? No_____ Yes_____

If exceptions are taken, they must be listed in the handbook of instructions and identified by Section Number.

Final Stage Ambulance Manufacturers ID Number_____
VIN _____
OEM Chassis Model, Year of Manufacture _____
Vehicle Type _____

NOTICE: THIS VEHICLE, AS MANUFACTURED, CONFORMS TO THE PAYLOAD REQUIREMENTS OF THE FEDERAL AMBULANCE SPECIFICATION KKK-A-1822. USERS SHALL NOT LOAD VEHICLES ABOVE THE GVWR, GAWRs OR EXCEED THE TOTAL USABLE PAYLOAD OR CAPACITY LISTED BELOW.

TOTAL USABLE CARGO/EQUIPMENT CAPACITY _____ lbs.
(Total remaining weight capacity of equipment and cargo evenly distributed in interior and exterior compartments the user may add.)

FIGURE 2 – Payload Calculation Form
The completed form shall be included in the handbook of instructions.

- The form shown here is suggested format.
- Deviations in dimensions are acceptable.
- All text must be included.
- No additions are permitted

CUSTOMER USABLE PAYLOAD INFORMATION
Final Stage Ambulance Manufacturer's Name: _____
OEM Chassis Year, Make, Model: _____
1) Ambulance Model, Type, Prod. #: _____
2) OEM GAWR – Front: _____ lbs
3) OEM GAWR – Rear: _____lbs
4) OEM GVWR: _____lbs
5) Minimum Payload Per KKK-A-1822: _____lbs
6) Curb Weight – AS BUILT – Front Axle: _____lbs
7) Curb Weight – AS BUILT – Rear Axle: _____lbs
8) Total Curb Weight – AS BUILT: _____lbs
9) Total Occupant Weight – 171 lbs. X number of designated seating positions: _____lbs
10) CUSTOMER USABLE Cargo/Equipment Capacity AS BUILT (From Ultramod): _____lbs

3.10.8 DOORS.

Two patient compartment door openings shall be provided. They shall not be on the same side of the vehicle.

Door 1

There shall be a door opening for loading a patient on a backboard.

a) For modular bodies the door(s) shall provide a minimum clear opening of 30" wide and of 46" high

b) For Type II vehicles the OEM's standard door opening shall be furnished

Door 2

There shall be a door opening for loading a patient on a cot.

a) For modular bodies the door(s) shall provide a minimum clear opening of 44" wide and of 46" high

b) For Type II vehicles the OEM's standard door opening shall be furnished

3.12 OXYGEN, MAIN SUPPLY AND INSTALLATION.

The ambulance shall have a piped medical oxygen system capable of storing and supplying a minimum of 3,000 liters of medical oxygen. The installed medical oxygen piping shall be leak tested to 80 PSI. After the successful completion of piping test, the system shall be completely assembled and the flow rate of the outlets tested with the system pressurized at normal working pressure. The system shall be capped then tagged with date and signature of person and firm performing the tests.

The main oxygen supply shall be from a compressed gas cylinder(s) that the consignee will provide and install at the time the vehicle is placed in service.

A cylinder changing wrench shall be furnished. The wrench shall be chained and clipped within the oxygen cylinder compartment.

The cylinder controls shall be accessible from the inside the vehicle. A device shall be visible from the EMSP's seat that indicates cylinder pressure. The use of remote high pressure lines and gauges are not allowed. The oxygen cylinder(s) shall be accessible for changing from the exterior of the body.

The purchaser shall specify the type of quick disconnect, to be used. The FSAM shall install all other components and accessories required for the piped oxygen system which shall include as a minimum:

- A pressure regulator
- Low pressure, electrically conductive, hose and fittings approved for medical oxygen
- Oxygen piping shall be concealed and not exposed to the elements, securely supported to prevent damage, and be readily accessible for inspection and replacement.
- Oxygen shall be piped to a self-sealing duplex oxygen outlet station for the primary patient with a minimum flow rate of 100 LPM at the outlet.
- Outlets shall be marked and identified and not interfere with the suction outlet

3.12.1 OXYGEN PRESSURE REGULATOR.

Delete paragraph 3.12.1.
Replace it with the following paragraph:

The medical, oxygen pressure reducing, and regulating valve with inlet filter at the cylinder shall have line relief valve set at 200 psi maximum, and a gauge or digital monitor with a minimum range of 0 to 2,500 psi with the gauge or display scale graduated in not more than 100 PSI increments. The regulator shall be easy to connect and preset, with a locking adjustment, at 50 +/- 5 psi line pressure.

With the regulator set at 50 +/- 5 psi, a 100 LPM minimum flow rate shall be available at all oxygen outlets.

This regulator shall perform as required at an inlet pressure range from 150 psi to 2500 psi.

3.12.2 SUCTION ASPIRATOR, PRIMARY PATIENT.

An electrically powered suction aspirator system shall be furnished. The vacuum control, vacuum indicator and collection bottle or bag shall be located so that the EMSP can properly operate the device from the EMSP seat. The electric type aspirator system shall be connected per Figure 3.

The suction pump shall be located in an area that is accessible and vibration insulated from the patient compartment.

1) The pump shall be vented to the vehicle's exterior.
2) A vacuum control and a shut-off valve, or combination thereof, shall be provided to adjust vacuum levels.
3) A vacuum indicator gauge graduated at least every 100 mm Hg and a minimum total range of 0 to 760 mm Hg, shall be provided.
4) The collection bottle or bag shall be non-breakable and transparent with a minimum 1,000 ml capacity.
5) The minimum inside diameter for the suction tubing connectors shall be at least 1/4 in. The end user shall provide any suctioning catheters desired.
6) The suction aspirator system shall provide a minimum of 30 LPM flow at the catheter tip.

5.2.5 GOVERNMENT/PURCHASER RESPONSIBILITY.

41 CFR 102-34 requires the display of official U.S. Government license plates on the front and rear of all Government motor vehicles unless otherwise exempt, regardless of state motor vehicle requirements.

6.4 CERTIFICATE OF ORIGIN OR BILL OF SALE.

The manufacturer's Certificate of Origin or Bill of Sale for each vehicle procured shall be provided to the purchasing agency. The front of the document shall show the applicable RPN number shown on the Motor Vehicle Delivery Order. Non-OEM re-sellers must re-assign the document to the purchasing agency listed in the Consignee Mailing Address shown on the Motor Vehicle Delivery Order. The document shall be forwarded to the Consignee Mailing Address shown on the Motor Vehicle Delivery Order prior to shipment. Vehicle title/registration and safety/emission tests are the responsibility of the requisitioning agency.