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 * SENSITIVE *

KKK-S-2806
 October 16, 1992
 SUPERSEDING
 MIL-S-29217A(YD)
 27 February 1987

FEDERAL SPECIFICATION

SEMITRAILER, BOTTOM DUMP, 18 CUBIC YARD MINIMUM CAPACITY

This specification is approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

1. SCOPE

1.1 Scope. This specification covers a commercial semitrailer of the air-operated, bottom dump-unloading type, having a minimum struck capacity of 18 cubic yards.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. The following specifications and standards form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

Federal Standards

FED-STD-297 - Rustproofing of Commercial (Nontactical) Vehicles
 FED-STD-595 - Colors

 Beneficial comments (recommendations, additions, deletions) and any pertinent
 *data which may be of use in improving this document should be addressed to: *
 *Commanding Officer (Code 156), Naval Construction Battalion Center, *
 *621 Pleasant Valley Road, Port Hueneme, CA 93043-4300, by using the *
 *Standardization Document Improvement Proposal (DD Form 1426) appearing at *
 *the end of this document or by letter. *

FSC 2330

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Military Specification

MIL-V-62038 - Vehicles, Wheeled, Preservation for Shipment and Storage of

Military Standards

- MIL-STD-209 - Slings & Tiedown Provisions for Lifting & Tying Down
Military Equipment
- MIL-STD-1223 - Nontactical Wheeled Vehicles Treatment, Painting,
Identification Marking & Data Plate Standards
- MS75021 - Connector, Receptacle, Electrical - 12 Contact,
Intervehicular, 24 Volt, Waterproof

(Unless otherwise indicated, copies of federal and military specifications and standards are available from the Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.1.2 Other Government documents and publications. The following other Government documents and publications form a part of this specification to the extent specified herein. Unless otherwise specified, the issues shall be those in effect on the date of the solicitation.

Department of Transportation (DoT)

- Federal Motor Vehicle Safety Standards and Regulations
- Federal Motor Carrier Safety Regulations

(Application for copies should be addressed to the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.)

2.2 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issues of the documents which are current on the date of the solicitation (see 6.2).

Society of Automotive Engineers, Inc. (SAE)

- SAE J318 - Air Brake Gladhand Service (Control), and Emergency (Supply)
Line Coupler-Truck, Truck-Tractor, and Trailers
- SAE J534 - Lubrication Fittings
- SAE J560 - Seven-Conductor Electrical Connector for Truck-Trailer Jumper
Cable
- SAE J588 - Turn Signal Lamps for Use on Motor Vehicles Less Than
2032 mm in Overall Width
- SAE J682 - Rear Wheel Splash and Stone Throw Protection
- SAE J700 - Upper Coupler Kingpin-Commercial Trailers and Semitrailers
- SAE J702 - Brake and Electrical Connection Location-Trucks-Tractor and
Truck-Trailer
- SAE J741 - Capacity Rating-Scraper, Open Bowl

(Application for copies should be addressed to the Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096.)

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Tire and Rim Association, Inc. (TRA)

TRA Yearbook

(Application for copies should be addressed to the Tire and Rim Association, Inc., 175 Montrose West Avenue, Suite 150, Copley, OH 44321.)

(Non-Government standards and other publications are normally available from the organizations which prepare or which distribute the documents. These documents also may be available in or through libraries or other informational services.)

American Society of Mechanical Engineers (ASME)

Boiler and Pressure Vessel Code Section VIII, Division 1 - Rules for Construction of Pressure Vessels

(Application for copies should be addressed to the American Society of Mechanical Engineers, United Engineering Center, 345 East 47th Street, New York, NY 10017.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein (except for associated detail specifications, specification sheets or MS standards), the text of this specification takes precedence. Nothing in this specification, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Description. The semitrailer shall consist of a tandem axle suspension system, high tensile steel body, pneumatic bottom discharge system with all necessary lines, controls, valves, landing supports, lights and wiring, and all other components and accessories to make a complete serviceable unit.

3.2 First article. Unless otherwise specified (see 6.2), the contractor shall furnish a semitrailer for first article inspection (see 4.2.1 and 6.4).

3.3 Standard commercial product. The semitrailer shall, as a minimum, be in accordance with the requirements of this specification and shall be the manufacturer's standard commercial product. Additional or better features which are not specifically prohibited by this specification but which are a part of the manufacturer's standard commercial product, shall be included in the semitrailer being furnished. A standard commercial product is a product which has been sold or is being currently offered for sale on the commercial market through advertisements or manufacturer's catalogs, or brochures, and represents the latest production model.

3.4 Construction. The semitrailer shall be designed and constructed to facilitate field maintenance. All adjustments and replaceable accessories shall be readily accessible. Conditions which can be hazardous to personnel or deleterious to equipment shall not be permitted.

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3.5 Interchangeability. All units of the same classification furnished with similar options under a specific contract shall be identical to the extent necessary to insure interchangeability of component parts, assemblies, accessories, and spare parts.

3.6 Materials. Materials used shall be free from defects which would adversely affect the performance or maintainability of individual components or of the overall assembly. Materials not specified herein shall be of the same quality used for the intended purpose in commercial practice. Unless otherwise specified herein, all equipment, material, and articles incorporated in the work covered by this specification are to be new and fabricated using materials produced from recovered materials to the maximum extent possible without jeopardizing the intended use. The term "recovered materials" means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. None of the above shall be interpreted to mean that the use of used or rebuilt products is allowed under this specification unless otherwise specified.

3.7 Dimensions, weights, and capacities. The semitrailer shall conform to the dimensions, weights, and capacities specified in table I.

TABLE I. Dimensions, weights, and capacities.

* Yardage ratings - SAE J741		*

* Struck	18 cubic yards minimum	*
* Payload	50,000 pounds minimum	*
* Overall length	Minimum practical	*
* Overall height	Minimum practical	*
* Overall width	8 feet maximum	*
* Kingpin location (+/-3 inches)	18 inches	*
* Kingpin height (+/-1 inch)	49 inches	*

3.7.1 DoT Federal Motor Vehicle Safety Standards. The semitrailer shall comply with the DoT Federal Motor Vehicle Safety Standards in effect at the time of manufacture.

3.8 Performance. The semitrailer, fully equipped and loaded with rated payload, shall show no evidence of part failure or permanent deformation when towed at speeds as great as 10 miles per hour (mph) over unimproved roads, and over reasonably hard, uneven terrain; and when towed at speeds as great as 55 mph over improved roads.

3.8.1 Turning ability. The semitrailer shall be capable of assuming a 90 degree angle to the coupled towing vehicle without cramping or damage to the semitrailer or the towing vehicle.

3.8.2 Tracking ability. The semitrailer shall conform to the tracking requirements of the DoT Federal Motor Carrier Safety Regulations, section 393.70(a).

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3.8.3 Brake performance. Service and parking brakes shall comply with the performance requirements of DoT Federal Motor Vehicle Safety Standard No. 121, FMCSR 393.52.

3.8.4 Ratings. Vehicle ratings shall be the manufacturer's published ratings. Component and vehicular ratings shall not be raised to meet the requirements of this specification.

3.9 Components.

3.9.1 Chassis frame and body structure. The semitrailer chassis frame and body shall be an electrically welded, all-steel construction, integral unit. The rated payload and the sprung weight of the semitrailer shall not impose a fiber stress greater than 50 percent of the yield strength of the material used when the semitrailer is operating under mobile operating conditions specified in 3.8. The chassis main frame members shall extend the full length of the body and shall be combined with sufficient number of cross-members to insure stability.

3.9.2 Push plate. A rear push plate shall be provided on the rear of the semitrailer. The push plate shall withstand the forces encountered, when pushing the fully loaded semitrailer, without breakage or permanent deformation of the plate or supporting members.

3.9.3 Suspension system. The semitrailer shall be furnished with the manufacturer's standard suspension system. Each component of the suspension system shall have a rated capacity at least equal to the load imposed, measured at the ground, when the semitrailer is loaded with its rated payload. Clearances shall preclude interference between tires and any other part of the semitrailer under the operating conditions specified herein.

3.9.4 Axles. Semitrailer shall be furnished with tandem axles. Axle ratings shall be at least equal to the load imposed on each axle, measured at the ground, with semitrailer loaded with rated payload. The wheel bearings and axle spindles shall be oil lubricated. The oil viscosity shall be in accordance with the manufacturer's recommendations. The hubcaps shall have a window for visual determination of oil level. The hubs shall be fitted with weatherproof seals. Provisions for venting or other method of withstanding internal pressure buildup, and for replenishing the oil supply, shall be incorporated.

3.9.5 Wheels, rims, tires, and tubes.

3.9.5.1 Wheels, rims, and tires. Semitrailer shall be equipped with dual wheels on each axle. Tires shall be tube or tubeless type with highway tread. The rims and tire ratings shall conform to TRA recommendations for the type and size of tires furnished. Tire and rim sizes shall be the same for all wheels of the semitrailer. Tires shall be of rated capacity at least equal to the load imposed on each tire, measured at each wheel at the ground, with semitrailer loaded with rated payload. Tires shall be of not less than 100 level quality and shall be of domestic manufacture.

3.9.5.2 Tire carrier. One tire carrier shall be provided and installed in a readily accessible location. Means shall be provided for securing the tire within the carrier to prevent accidental loss.

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3.9.5.3 Inner tubes. When tube type tires are furnished, inner tubes shall be of heavy-duty type, and shall be of proper size for tires furnished.

3.9.5.4 Spare wheel. When specified (see 6.2), a spare wheel or rim shall be mounted on the tire carrier.

3.9.5.5 Spare tire. When specified (see 6.2), a spare tire mounted on wheel shall be provided.

3.9.6 Brakes.

3.9.6.1 Service brakes. Service brakes shall be of the full air type, and shall conform to DoT Federal Motor Carrier Safety Regulations, sections 393.45 through 393.47, and as specified herein. The braking system shall include breakaway features, manual or automatic slack adjusters, piping, hose connections, gladhands, spring loaded dustcovers or dummy gladhands equipped with security chains, and all other components required for a complete air-brake system. The braking system shall be installed in a manner which provides road clearance for travel over uneven terrain and protection against damage caused by objects striking components. No part of the braking system shall extend below the bottom of wheel rims. Gladhands shall conform to SAE J318.

3.9.6.2 Parking brake. The semitrailer shall be equipped with a parking brake. The parking brakes shall be spring applied or air-diaphragm type. The brakes shall hold the semitrailer with rated payload on a 10 percent grade despite the depletion of the compressed air supply. The brakes shall be automatically applied upon discontinuation of the emergency air line and under emergency conditions.

3.9.7 Upper fifth wheel plate. The upper fifth wheel plate shall be designed for coupling to a full oscillating and fore and aft rocking fifth wheel; shall be of sufficient size to cover a fifth wheel 36 inches in diameter, and shall conform to DoT Federal Motor Carrier Safety Regulations, sections 393.70(b) and (ii). The kingpin shall be not less than 2 inches in diameter, shall be fabricated of heat treated alloy steel and shall conform to SAE J700.

3.9.7.1 Landing supports. Landing supports or stiff legs consisting of two legs of the gravity telescopic type mounted at the front of the semitrailer shall be furnished. Each leg shall be equipped with a steel support pad not less than 12 inches square. Landing support adjustment shall be not less than 2-inch increments. The range of the adjustment shall vary the upper fifth wheel plate height from 47 inches to not less than 53 inches from the ground. Minimum ground clearance with support pads retracted shall be not less than 14 inches.

3.9.8 Electrical system.

3.9.8.1 Lighting. The electrical lighting system shall be 12 volt (V) potential. The lighting system shall conform to DoT Federal Motor Carrier Safety Regulations, sections 393.14, 393.20, 393.22, 393.23, 393.25 through 393.29, 393.32, and 393.33. All lights and reflectors shall be protected from operational hazards by mounting in recessed or otherwise guarded locations. Lights and reflectors shall not be mounted on vertical surfaces of the rub rails. Clearance lights shall have replaceable lamps with twist or snap-on lenses. Turn signal lamps shall conform to SAE J588. The front of the

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semitrailer shall be equipped with a 12V, 7-contact receptacle conforming to SAE J560, with the receptacle located and the conductors connected and color coded as specified therein.

3.9.8.2 Independent 24V direct current (DC) electric system. When specified (see 6.2), a 24 VDC lighting system, independent of the 12 VDC lighting system, shall be provided. Separate wiring and bulbs shall be provided for the 24 VDC system. The 24 VDC system shall also conform to the DoT Federal Motor Carrier Safety Regulations.

3.9.8.3 Receptacle for 24 VDC electric system. When an independent 24 VDC system is specified (see 6.2), the front of the semitrailer shall also be equipped with a 12-contact receptacle and cover conforming to MS75021, part number MS75021-1. The receptacle shall be located in accordance with SAE J702. The 24 VDC, 12-contact receptacle shall be connected to the lights as follows:

- Contact B - Connect to left-hand turn signal and stop lamp (yellow).
- Contact D - Connect to ground (white).
- Contact E - Connect to clearance, side marker, identification, and tail lamps (black and brown).
- Contact J - Connect to right-hand turn signal and stop lamp (green).
- Contact L - Connect to ground (white).

The remaining contacts shall not be connected. Circuits B and J on tactical (military design) trucks are combination stop and turn indicator circuits. On the interconnected 24 VDC system, the normal 12 VDC turn signal lights shall function both as turn signals and stop lights, and the normal 12 VDC stop lights will not be operational when the semitrailer is connected to a towing vehicle with 24 VDC power supply. Because of this condition, the stop light (red) circuit is not connected to the 24V, 12-contact receptacle.

3.10 Rear wheel splash and stone throw protection. Rear wheels shall have mud flaps at rear. Splash and stone throw protection shall be in accordance with SAE J682.

3.11 Body components.

3.11.1 Hopper body. The semitrailer shall be equipped with an air-operated bottom type dump. The body shall be of all-welded fabrication, utilizing high-tensile steel having a minimum yield point of 50,000 pound-force per square inch (psi) for all plates and reinforcing. Upper hopper interior sides and ends shall be smooth and slope into the lower dump hopper for smooth flow and complete cleanout of material. The hopper gate shall be windrow type, air-operated, clamshell, mounted on fully lubricated hinged bushings. Gate opening shall be large enough to allow complete unloading of the hopper body. Adjustable spreader chains shall be provided.

3.11.2 Air system. The semitrailer shall be equipped with a complete air system for gate operation including cylinder(s), air reservoir(s), air line lubricator, and all necessary hoses and couplings, for connection to the tractor air system. Air reservoir(s) shall be ASME coded for 125 pounds working pressure with not less than 9,000 cubic inch capacity. Cylinders, walls, and piston rod(s) shall be protected from corrosion.

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3.11.3 Gate control. The semitrailer gate control shall be an electrical solenoid air-operated system. The solenoid(s) shall be remotely operated, by switch, from the truck-tractor cab. A manual control air valve shall also be furnished on the left side of the hopper. A receptacle suitable for the electrical connection to the truck-tractor shall be installed on the front of the semitrailer.

3.11.4 Switch kit. A kit consisting of the following shall be furnished: a plug compatible with the receptacle in 3.11.3, a switch to be mounted on the truck-tractor instrument panel accessible to the driver, and connecting cable of sufficient length to reach the cab panel mounted switch.

3.12 Treatment, painting, and data plates. Treatment, painting, and data plates shall be in accordance with MIL-STD-1223, as specified for the Navy, except the exterior color shall be green No. 14064 of FED-STD-595.

3.12.1 Rustproofing. When specified (see 6.2), the semitrailer shall be rustproofed in accordance with FED-STD-297.

3.13 Marking. Marking and registration numbers shall be in accordance with MIL-STD-1223, as specified for the Navy. The gross weight shall be marked on each forward front side of the body.

3.14 Lifting and tiedown attachments. When specified (see 6.2), the semitrailer shall be equipped with lifting and tiedown attachments. Lifting and tiedown attachments shall conform to type II or type III of MIL-STD-209. A nonferrous transportation plate shall be provided and mechanically attached to the semitrailer. Transportation plates shall be inscribed with a diagram showing the lifting attachments and lifting slings, the capacity of each attachment, and the required length and size of each sling cable. A silhouette of the item furnished showing the center of gravity shall be provided on the transportation plate. Tiedown attachments may be identified by stenciling or other suitable marking. Tiedown marking shall clearly indicate that the attachments are intended for the tiedown of the semitrailer on the carrier when shipped.

3.15 Lubrication. Means for lubrication shall be in accordance with the manufacturer's standard practice. The lubricating points shall be easily visible and accessible. Hydraulic lubrication fittings shall be in accordance with SAE J534. Where use of high pressure lubricating equipment, 1,000 psi or higher, will damage grease seals or other parts, a suitable warning shall be affixed to the equipment in a conspicuous location.

3.16 Servicing and adjusting. Prior to acceptance of the semitrailer by the Government, the contractor shall service and adjust the semitrailer for immediate operational use as required in the operator's manual. The servicing and adjusting shall include at least the following:

- a. Inflation of all tires.
- b. Adjustment of brakes.
- c. Proper functioning of all lighting and electrical systems.

The semitrailer shall be conspicuously tagged to identify the lubricants and their temperature range.

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3.17 Workmanship.

3.17.1 Steel fabrication. The steel used in fabrication shall be free from kinks, sharp bends, and other conditions which would be deleterious to the finished product. Manufacturing processes shall not reduce the strength of the steel to a value less than intended by the design. Manufacturing processes shall be done neatly and accurately. All bends shall be made by controlled means to insure uniformity of size and shape.

3.17.2 Bolted connections. Boltholes shall be accurately punched or drilled and shall have the burrs removed. Washers or lockwashers shall be provided in accordance with good commercial practice, and all bolts, nuts, and screws shall be tight.

3.17.3 Riveted connections. Rivet holes shall be accurately punched or drilled and shall have the burrs removed. Rivets shall be driven with pressure tools and shall completely fill the holes. Rivet heads, when not countersunk or flattened, shall be of approved shape and of uniform size for the same diameter of rivet. Rivet heads shall be full, neatly made, concentric with the rivet holes, and in full contact with the surface of the member.

3.17.4 Welding. Welding procedures shall be in accordance with a nationally recognized welding code. The surface of parts to be welded shall be free from rust, scale, paint, grease, or other foreign matter. Welds shall be of sufficient size and shape to develop the full strength of the parts connected by the welds. Welds shall transmit stress without permanent deformation or failure when the parts connected by the weld are subjected to proof and service loadings.

3.17.5 Castings. All castings shall be sound and free from patching, misplaced coring, warping, or any other defect which reduces the casting's ability to perform its intended function.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.

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4.1.2 Component and material inspection. Components and materials shall be inspected in accordance with all the requirements specified herein and in applicable referenced documents.

4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.2.1).
- b. Quality conformance inspection (see 4.2.2).

4.2.1 First article inspection. The first article inspection shall be performed on the semitrailer when a first article is required (see 3.2 and 6.2).

This inspection shall include the examination of 4.2.1 and the tests of 4.4. The first article may be either a first production item or a standard production item from the supplier's current inventory provided the item meets the requirements of the specification and is representative of the design, construction, and manufacturing technique applicable to the remaining items to be furnished under the contract.

4.2.2 Quality conformance inspection. The quality conformance inspection shall include the examination of 4.2.1, the tests of 4.4, and the packaging inspection of 4.6. This inspection shall be performed on the samples selected in accordance with 4.3.

4.3 Examination. Each semitrailer shall be examined for compliance with the requirements specified in section 3 of this specification. Any redesign or modification of the contractor's standard product to comply with specified requirements, or any necessary redesign or modification following failure to meet specified requirements shall receive particular attention for adequacy and suitability. This element of inspection shall encompass all visual examinations and dimensional measurements. Noncompliance with any specified requirements or presence of one or more defects preventing or lessening maximum efficiency shall constitute cause for rejection.

4.4 First article tests. When first article is required, the first article shall be subject to the tests specified in 4.4.1 through 4.4.5. Failure to pass any phase of the required tests shall be cause for the Government to refuse acceptance of all semitrailers until corrective action has been taken.

4.4.1 Vehicle weight. Semitrailer shall be weighed to determine net weight and distribution of net weight on fifth wheel and axles. The imposed loading of the fifth wheel and axle shall be computed using the net weight and the payload. Calculated imposed loads on fifth wheel and axles shall be utilized to ascertain that the suspension, axles, and tires furnished are of adequate capacity to meet contract requirements, and to determine conformance to 3.7.

4.4.2 Road test. Road test shall consist of coupling the semitrailer loaded with rated payload to a truck-tractor. The tractor combination shall be driven a distance of not less than 20 miles under the conditions specified in 3.8. At least 20 percent of the distance shall be over hard uneven terrain. Not less than five sudden stops shall be made from a speed of not less than 20 mph. Turning ability specified in 3.8.1 and tracking ability specified in 3.8.2 shall

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be observed to ascertain conformance to the specification. After the test, the semitrailer shall be examined for evidence of misalignment, binding, or other malfunction.

4.4.3 Landing support test. Landing support shall be tested to verify conformance to 3.9.7.1.

4.4.4 Dump test. The semitrailer shall be cycle tested three times, load and dump. Semitrailer shall show no malfunction, permanent deformation, leakage, or binding of the dumping mechanism. Air system shall be inspected for proper operation and conformance to 3.11.2. Gate controls shall be used from both the remote cab position, and the manual controls at the left side of the hopper.

4.4.5 Lifting and tying down attachments test. The lifting and tying down attachments shall be tested to verify conformance to 3.14.

4.5 Inspection of production semitrailer. The contractor's inspection system shall, as a minimum, assure that the semitrailer conforms to the physical and dimensional requirements and is capable of meeting performance requirements contained herein.

4.6 Packaging inspection. The preservation, packaging, and marking of the item shall be inspected to verify conformance to the requirements of section 5.

5. PACKAGING

5.1 Semitrailer processing. The equipment shall be preserved and packaged in accordance with the contractor's standard practice. When specified (see 6.2), equipment shall be preserved, packed, and marked in accordance with the mobile requirements of MIL-V-62038 with the level of preservation and packing as specified.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The semitrailer covered by this specification is intended for use in transporting and dumping material on construction job sites.

6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification
- b. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1 and 2.2)
- c. When first article is required for inspection and approval (see 3.2, 4.2.1, and 6.4)
- d. When spare wheel is required (see 3.9.5.4)
- e. When spare tire is required (see 3.9.5.5)
- f. When 24V electric system is required (see 3.9.8.2 and 3.9.8.3)
- g. When rustproofing is required (see 3.12.1)

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- h. When lifting and tying down attachments are required (see 3.14)
- i. When MIL-V-62038 and level of preservation and packing is required (see 5.1)

6.3 Data requirements. When this specification is used in an acquisition and data are required to be delivered, the data requirements shall be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved Contract Data Requirements List (CDRL), incorporated into the contract. When the provisions of DOD FAR Supplement, Part 27, Sub-Part 27.410-6 (DD Form 1423) are invoked and the DD Form 1423 is not used, the data shall be delivered by the contractor in accordance with the contract or purchase order requirements.

6.4 First article. When a first article inspection is required, the item will be tested and should be a first article sample or it may be a standard production item from the contractor's current inventory as specified in 4.2.1. The first article should consist of one unit. The contracting officer should include specific instructions in acquisition documents regarding arrangements for examination, test, and approval of the first article.

6.5 Definitions.

6.5.1 Improved road. An improved road is a smooth, hard surfaced road, such as a concrete or asphalt paved highway.

6.5.2 Unimproved road. An unimproved road is an unpaved, unstabilized road with an undulating surface having occasional chuckholes and exposed rocks.

6.6 Supersession data. This specification supersedes military specification MIL-S-29217A(YD) dated 27 February 1987.

6.7 Subject term (keyword) listing.

Bottom dump, air operated
Transporter, bulk material

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

PREPARING ACTIVITY:

Navy - YD

(Project 2330-0125)

Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See section 2 of this specification to obtain extra copies and other documents referenced herein.