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* INCH-POUND *

OO-D-2842
October 29, 1993
SUPERSEDING
MIL-D-29224A(YD)
22 May 1989

FEDERAL SPECIFICATION

DISTRIBUTOR, WATER, ARTICULATED TRACTOR-SEMITRAILER, 7,000 GALLONS (26 500 LITERS) TANK CAPACITY, DED

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 low profile water distributors, articulated tractor-semitrailer, single axle tractor, 7,000 gallons (26 500 liters (L)) water tank capacity, diesel-engine-driven (DED).

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. The following specifications and standards form a part of this specification 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 Specification

W-B-131 - Battery Storage (Vehicular, Ignition, Lighting, and Starting)

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, *
*1000 23rd Avenue, Port Hueneme, CA 93043-4301, by using the Standardization *
*Document Improvement Proposal (DD Form 1426) appearing at the end of this *
*document or by letter. *

FSC 3825

Federal Standards

FED-STD-123 - Marking for Shipment (Civil Agencies)
FED-STD-595 - Colors Used in Government Procurement

Military Specifications

MIL-D-771 - Distributors, Bitumen and Water, Packaging of
MIL-T-3351 - Tractor, Full-Tracked, Low-Speed; Tractor Wheeled, Agricultural; and Tractor Wheeled, Industrial; and Their Attachments, Packaging of

Military Standards

MIL-STD-129 - Marking for Shipment and Storage
MIL-STD-209 - Slinging and Tiedown Provisions for Lifting and Tying Down Military Equipment

(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, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

Department of Labor (DoL)
Occupational Safety and Health Administration (OSHA)

Occupational Safety and Health Standards

(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 document(s) form a part of this specification 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 the documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2).

Society of Automotive Engineers, Inc. (SAE)

SAE J53 - Minimum Performance Criteria for Emergency Steering of Wheeled Earthmoving Construction Machines
SAE J276 - Steering Frame Lock for Articulated Loaders and Tractors
SAE J383 - Motor Vehicle Seat Belt Anchorages - Design Recommendations
SAE J386 - Operator Restraint Systems for Off-Road Work Machines
SAE J534 - Lubrication Fittings
SAE J925 - Minimum Service Access Dimensions for Off-Road Machines
SAE J994 - Alarm - Backup - Electric - Performance, Test, and Application

SAE J1040 - Performance Criteria for Rollover Protective Structures (ROPS) for Construction, Earthmoving, Forestry and Mining Machines
SAE J1164 - Labeling of ROPS and FOPS and OPS
SAE J1473 - Braking Performance - Rubber-Tired Earthmoving Machines

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

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, Copley, OH 44321).

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

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

3. REQUIREMENTS

3.1 Descriptions. The distributor consists essentially of a single axle tractor, water tank-trailer with a nondriven axle, gooseneck assembly, pressurized front and rear mounted spray bar/heads, rear mounted gravity spray bar/sprinkler, water pump, and operating controls.

3.2 First article. When specified in the contract or purchase order (see 6.2), a sample shall be subjected to first article inspection (see 4.2.1 and 6.3).

3.3 Standard commercial product. The distributor 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 distributor 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 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.

3.5 Materials. Materials used shall be free from defects which would adversely affect the performance or maintainability of individual components or of the overall assembly. 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. Unless otherwise specified, none of the above shall be interpreted to mean that the use of used or rebuilt products is allowed under this specification.

3.6 Safety. All moving parts, parts subject to high operating temperature, and parts energized electrically which are of such a nature or so located as to become a hazard to operating and maintenance personnel shall be insulated, enclosed, or guarded to the extent necessary to eliminate the hazard. Protective devices shall not impair the operating functions. Platforms, steps, steps, handholds, and rails shall be furnished and located where necessary, to assure safe, easy access by personnel to those areas requiring frequent maintenance of service. The unit shall comply with OSHA regulations in effect at the time of manufacture. The unit shall be provided with the following equipment:

a. Safety glass windshield with power operated windshield wiper
b. Horn
c. Backup alarm device conforming to SAE J994
d. Seat belt for operator’s seat
e. Roll-over protective structures (ROPS)
f. Adjustable air suspension seat
g. Instrument panel (vandalism) protective guard
h. Emergency steering system conforming to SAE J53

3.7 Dimensions, cubes, and capacity. The distributor shall conform to the dimensions, cubes, and capacities specified in table I.

TABLE I. Dimensions, cubes, and capacities.

Capacity	7,000 gallons (26 500 L) minimum
Distributor width	12 feet (3.65 meters (m)) maximum
Distributor height	13 feet (3.96 m) maximum
Overall length of distributor	50 feet (15.24 m) maximum
Travel speed (fully loaded on level earth-haul road)	24 miles per hour (mph) or 38 kilometers per hour (kph)

3.8 Design and construction. As a minimum, the distributor shall be designed and constructed to meet the performance tests of 4.4.1.

3.8.1 Ambient temperature. The distributor shall be capable of being stored, started, and operated efficiently at ambient temperature from -20 to +120 degrees Fahrenheit (oF) or -29 to +49 degrees Celsius (oC).

3.8.2 Tractor. The tractor shall be of the single axle type and support or incorporate as integral parts, the bumper, towing hook(s), crankcase guard, oscillating hitch assembly, operator's station, full power steering, hydraulic system, cold starting aids, power plant, power train, and emergency steering system conforming to SAE J53. The tractor frame shall be mounted on two power driven, pneumatic-tired wheels. A crankcase guard shall protect the crankcase, flywheel housing, accessories, and other assemblies exposed to damage from projections and obstructions likely to be encountered during normal earthmoving operations. Crankcase guard shall be furnished with openings which shall provide easy access to points requiring periodic servicing and cleaning. The tractor shall have individual cab-located controls for operating the unit. Each control shall be clearly identified for the intended function with a corrosion-resistant nameplate. The tractor shall be capable of making a 90 degree turn with tank attached. Not less than two hooks or loops for towing the distributor shall be furnished on the front of the distributor. Mounting shall include reinforcement to transfer loads directly to the chassis rails.

3.8.3 Cab. The distributor shall be furnished with a fully enclosed or open canopy construction type cab as specified (see 6.2). The cab shall be single seat, metal construction and furnished with integral ROPS conforming to SAE J1040 and seat belt conforming to SAE J383 and SAE J386. The ROPS shall be labeled in accordance with SAE J1164. The cab shall be furnished with two doors or one door and a window opposite the door. The window shall be designed as an emergency exit sized in accordance with SAE J925. Both doors or the door and the window shall be provided with a means to hold them in an open position. The cab shall be equipped with windshield wipers, and the manufacturer's standard heater/defroster. When specified, the manufacturer shall provide his current air conditioning unit (see 6.2).

3.8.4 Brakes. The distributor shall be equipped with full air service, parking, and emergency brakes conforming to SAE J1473. Brake drum guards, or brake rotor guards shall be furnished.

3.8.5 Wheels, rims, and tires. Wheels, rims, and tires shall be demountable as an assembly, and shall have tires that are interchangeable front and rear. Tire and rim sizes, ply rating and load rating shall conform to TRA yearbook recommendations.

3.8.6 Transmission and torque converter. The distributor shall have a full torque power shift transmission. The transmission system shall provide not less than five forward speeds and one reverse speed. Torque converter oil coolers shall be furnished. Coolers shall maintain the oil entering the converters at a temperature not to exceed 240oF (115oC).

3.8.7 Electrical and starting systems. Engine starting shall be supplied from a 24-volt (V) electrical system by two batteries with 12-V potential. Primary batteries furnished shall be dry charged in accordance with W-B-131, without electrolyte, with sealed caps to prevent the intrusion of atmospheric moisture. When specified (see 6.2), the maintenance-free type battery shall be furnished. Battery total reserve capacity rating shall be not less than 1200 amperes. Battery box shall be painted with acid resistant paint. The alternator shall have not less than a 75-ampere rating. All wiring shall be

weatherproofed. A waterproof socket receptacle, with mating plug, connected to the starting system to facilitate emergency starting and battery charging shall be furnished.

3.8.8 Lighting. The lighting system shall include, but not be limited to, the following:

a. Two headlamps
b. Instrument panel lamps
c. One rearward directed floodlamp
d. Taillights, stoplights, and running lights
e. Turn signals and emergency flashing lights

3.8.9 Panel instrument. Panel instruments shall be visible from the driver's location and shall include, but not be limited to, the following:

a. Engine hour meter
b. Voltmeter or charging indicator
c. Fuel gauge
d. Engine oil pressure gauge
e. Engine coolant temperature indicator
f. Torque converter oil temperature indicator
g. Tachometer
h. Air pressure gauge
i. Low air pressure warning buzzer
j. Air cleaner restriction indicator
k. Keyed ignition/starting switch

3.8.10 Accessories. Accessories shall include, but not be limited to, the following:

a. Two stage intake air cleaner with service indicator
b. Full flow oil filter with bypass
c. Primary and secondary fuel filters
d. Fuel tank with sufficient capacity for 8 hours operation
e. Heavy-duty radiator guard
f. Heater/defroster
g. Cold engine starting system (glow plug or measured shot heat sensing ether injection with not less than 12 ounces (0.35 L) reservoir)
h. 50 feet (15 m) of 1-1/2 inch (38 millimeters (mm)) hose with adjustable nozzle

3.8.11 Water tank-trailer. The water tank-trailer or semitrailer or tanker shall be of the low profile design that shall enable the operator to have an unobstructed view all around. The tank shall be of welded steel construction and after fabrication, shall be hydrostatically or air tested to not less than 5 pounds per square inch gauge (psig) or 35 kilopascals (kPa) for not less than 30 minutes. The tank interior shall be coated with corrosion protective materials. As a minimum, the tank-trailer shall include the surge baffles, top mounted manhole with not less than 24 inches (610 mm) diameter complete with hinged cover and accessible by ladder and non-skid catwalk, air vent not less than 3 inches (76 mm) in diameter, hydraulic motor driven pump with not less than 1,200

gallons (4540 L) per minute capacity, and push frame complete with towing hook(s). The tank and piping system shall be capable of being completely drained of water.

3.8.12 Spray heads and gravity sprinkler. The front and rear of the distributor shall be provided with remote controlled spray heads that are adjustable from 8 feet (2.5 m) to 30 feet (9 m) of spraying range. A remote controlled gravity spray bar/sprinkler shall be mounted at the rear. The front and rear mounted spray bar/spray heads shall be capable of delivering a width coverage of 50 feet (15 m) and 65 feet (20 m) respectively. The rear mounted gravity fed spray bar shall be not less than 8 feet (2.5 m) long. Each spray head and gravity spray bar/sprinklers shall be individually operated and controlled from the operator's normal driving position.

3.8.13 Articulation locks. Articulation frame locks shall be in accordance with SAE J276. The locks shall be designed for shipping, lifting, or lowering the tractor and water tanker as a total unit. An instruction plate shall be provided describing the locking procedure.

3.8.14 Push frame. The push frame shall incorporate a push plate or roller, and towing hook(s) and shall be mounted on the rear of the distributor. The push plate or roller and frame shall withstand the forces applied to it without deformation or breakage when the distributor is pushed with another tractor of equivalent size.

3.9 Toolbox. When specified (see 6.2), the distributor shall be provided with a lockable and weather protected metallic tool box that is securely fastened to the distributor in an accessible location. The tool box shall have hinged lid which shall open not less than 90 degree and a drawbolt or spring loaded latch of a type that will keep the lid closed when the tool box is subjected to vibration. The toolbox shall be of sufficient size to hold all the tools normally used for operation and maintenance.

3.10 Lubrication. Unless otherwise specified (see 6.2), 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 psig (6895 kPa) or higher, will damage grease seals or other parts, a suitable warning shall be affixed to the equipment in a conspicuous location. The unit shall be lubricated prior to delivery with the type of lubricant specified in the operator's manual and grade of lubricant recommended for ambient temperature at the delivery point. The unit shall be conspicuously tagged to identify the lubricants and their temperature range.

3.11 Servicing and adjusting. Prior to acceptance of the distributor by the Government, the contractor shall service and adjust the distributor 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
d. Adjustment of engine

e. Complete lubrication with grades of lubricants recommended for ambient temperature at the delivery point
f. Cooling system filled to capacity with a clean solution of equal parts by volume of water and antifreeze (ethylene glycol)

3.12 Lifting and tiedown attachments. The distributor 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 distributor. 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 indicate which attachments are intended for the tiedown of the distributor on the carrier when shipped.

3.13 Identification plate. An identification plate will be furnished by the contracting officer for each distributor. The contractor shall stamp all necessary data in the blank spaces of the plate provided for that purpose, and securely affix a plate to each distributor in a conspicuous place with nonferrous metal screws, rivets, or bolts not less than 1/8-inch (3.175 mm) in diameter. The applicable nomenclature contained in the contract item description shall be placed in the top blank.

3.14 Cleaning, treatment, and painting. Surfaces shall be painted in accordance with the manufacturer’s standard practice and shall be cleaned, treated, and painted with procedure and finish color as specified herein. Surfaces to be painted shall be cleaned and dried to insure that they are free from contaminants such as oil, grease, welding slag and spatter, loose mill scale, water, dirt, corrosion products, or any other interfering substances. As soon as practicable, after cleaning, and before any corrosion product or other coating interfering material can result, the surfaces shall be prepared or treated to insure the adhesion of the coating system. The painting shall consist of at least one coat of primer and one finish coat of acrylic-based enamel or polyurethane enamel. The primer shall be applied to a clean, dry surface as soon as practicable after cleaning and treating. Painting shall conform to manufacturer’s current factory level requirements for material and quality. The total dry film thickness shall be not less than 2.5 mils (0.0635 mm) over the entire surface. The paint shall be free from runs, sags, orange peel, or other defects. Unless otherwise specified (see 6.2), the color of the finish coat shall be green, number 14064, conforming to FED-STD-595. The end item, allied equipment, and attachments shall be the same color. Wheeled vehicles shall have the wheels and bumpers painted same color as body and cab. When repainting is required to provide the green, number 14064 finish coat, the base color shall not be visible at any location. The repaint coating material shall be compatible with the original paint material.

3.15 Workmanship.

3.15.1 Metal fabrication. Metal used in fabrication shall be free from kinks and sharp bends. The straightening of material shall be done by methods that will not cause injury to the material. Corners shall be square and true. Flame-cutting, using tips suitable for the thickness of the metal, may be used

instead of shearing and sawing. All bends shall be made by controlled means to ensure uniformity of shape and size. Precautions shall be taken to avoid overheating, and heated metal shall be allowed to cool slowly. External surfaces shall be free from burrs, sharp edges and corners, except when sharp edges or sharp corners are required by design, or where they are not detrimental to safety.

3.15.2 Bolted connections. Boltholes shall be punched or drilled within manufacturer's design tolerances and shall have the burrs removed. Washers or lockwashers shall be provided, and all bolts, nuts, and screws shall be tight.

3.15.3 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.

3.15.4 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.

3.15.5 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 (examinations and tests) 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 ensure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items shall 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 ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

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 a distributor when a first article is required (see 3.2 and 6.2). This inspection shall include the examination of 4.3 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. When a first article test is specified by the contract and the contractor desires to deliver the test unit as a contract item, it shall be delivered only after the contractor, at his own cost and expense, completely cleaned, devoid of any material in the tank or piping, reconditioned, and/or overhauled, making such replacements and modifications thereto as are required to make the unit acceptable as a contract item.

4.2.1.1 Certificate of compliance. The contractor may submit for the approval of the contracting officer or his authorized representative a certificate of compliance to the first article test requirements cited in 4.4.4 and 4.4.5. The Government reserves the right to examine and require a retest to determine the validity of the certification.

4.2.2 Quality conformance inspection. The quality conformance inspection shall include the examination of 4.3, the test of 4.4.7, and the preparation for delivery inspection of 4.5.

4.3 Examination. Each distributor 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 Tests. Failure to pass any test shall constitute cause for rejection.

4.4.1 Performance tests. The distributor shall be subjected to the tests as specified below. The distributor shall be cycled not less than two times. The tank shall be loaded to a capacity of not less than 7,000 gallons (26 500 L) and each load shall be dumped without assistance from auxiliary equipment.

4.4.2 Preliminary tests. The distributor shall be generally examined and inspected to determine acceptability on the basis of conformance to contract requirements.

4.4.3 Load-haul-dump test. The hauling distance for each cycle shall be not less than 1,500 feet (460 m).

4.4.4 Gradability test. The distributor, loaded to the specified capacity shall negotiate an approximately 100-foot (30 m) long, well compacted earth grade, having a minimum slope of 20 percent. The distributor shall travel up and down this slope three times.

4.4.5 Side hill slope test. Without any payload, the distributor shall traverse longitudinally along a grade having a slope of not less than 30 percent. The grade shall be of compacted earth, having a minimum length of approximately 100 feet (30 m).

4.4.6 Travel and speed test. The distributor loaded to the specified capacity shall have travel speed of not less than 24 mph (38 kph) on a dry, level, earthen haul road. After completion of the test, the entire distributor shall be examined for evidence of excessive heating, failure, slippage, malfunction, or deformation.

4.4.7 Production unit test. Fill each distributor with water and operate for a run-in period of one hour. Check for leaks, demonstrate operation of all controls, and make any adjustments. Any leak or malfunction of any component that cannot be corrected by adjustment shall constitute failure of this test.

4.5 Preparation for delivery inspection. The preservation, packaging, packing, and marking shall be inspected to verify conformance to the requirements of section 5.

5. PREPARATION FOR DELIVERY

5.1 Preservation, packaging, and packing. Preservation, packaging, and packing shall be in accordance with the requirements of MIL-D-771 and MIL-T-3351, with the level of preservation, packaging and the level of packing as specified (see 6.2).

5.2 Marking.

5.2.1 Military agencies. Shipments to military agencies shall be marked in accordance with MIL-STD-129.

5.2.2 Civil agencies. Shipments to civil agencies shall be marked in accordance with FED-STD-123.

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 distributor is intended for use in soil stabilization, soil compaction, and dust alleviation.

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)
d. When a fully enclosed or open canopy type cab is required (see 3.8.3)
e. When a manufacturer's standard air conditioning unit is required (see 3.8.3)
f. When maintenance-free type battery shall be furnished (see 3.8.7)
g. When tool box is required (see 3.9)
h. When lubrication is other than as specified (see 3.10)
i. When color of finish coat is other than as specified (see 3.14)
j. Level of preservation, packaging, and level of packing required (see 5.1)

6.3 First article. When a first article inspection is required, the item will be tested and should be a first production item, 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, approval of the first article, and approval of certificate of compliance.

6.4 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 (DD Form 1423) incorporated into the contract. When the provisions of DOD Federal Acquisition Regulations (FAR) Supplement, Part 27, Sub-Part 27.475-1 are invoked and the DD Form 1423 is not used, the data should be delivered by the contractor in accordance with the contract or purchase order requirements.

6.5 Supersession data. This specification replaces military specification MIL-D-29224A(YD) dated 22 May 1989.

6.6 Subject term (key word) listing

Gooseneck
Spraybar
Sprayhead
Tanker

MILITARY INTERESTS:

Custodian

Navy - YD1

CIVIL AGENCY COORDINATING ACTIVITIES:

GSA - FSS

PREPARING ACTIVITY:

Navy - YD1

(Project 3825-0223)