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SUPERSEDING
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MILITARY SPECIFICATION

SWEEPER, ROTARY, TOWED, COMMERCIAL, BLOWER TYPE

This specification is approved for use by the Naval Facilities Engineering Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers a commercial towed type, blower equipped, rotary, snow and sand sweeper.

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).

SPECIFICATION

MILITARY

MIL-T-3351 - Tractor, Full Tracked, Low Speed; Tractor Wheeled, Agricultural, and Tractor Wheeled, Industrial, and Their Attachments, Packaging of.

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, Port Hueneme, CA 93043-5000, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 3825

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

STANDARDS

FEDERAL

FED-STD-595 - Colors.

MILITARY

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, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.2 Other Government documents. The following other Government document forms a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

DEPARTMENT OF TRANSPORTATION (DoT)

Federal Motor Carrier Safety Regulations.

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

(Copies of specifications, standards, and other Government documents required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.3 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 J534 - Lubrication Fitting.

SAE J537 - Storage Batteries.

SAE J551 - Performance Levels and Methods of Measurement of Electromagnetic Radiation from Vehicles and Devices (20-1000 MHz).

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

THE TIRE AND RIM ASSOCIATION, INC. (TRA)

TRA Yearbook.

(Application for copies should be addressed to the Tire and Rim Association, Inc., 3200 West Market Street, Suite 304, Akron OH 44313.)

(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.)

2.4 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 sweeper shall have a welded steel tricycle frame, adjustable power-driven broom of not less than 36 inches in diameter and not less than 166 inches long, high velocity air blower system, front wheel steer, diesel engine, tow bar, and all other parts and accessories to make a complete and serviceable unit.

3.2 First production vehicle. When specified (see 6.2), the contractor shall furnish a sweeper for first article inspection and approval (see 4.2.1 and 6.4).

3.3 Standard commercial product. The sweeper 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 sweeper 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 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. Unless otherwise specified, none of the above shall be interpreted to mean that the use of used or rebuilt products are allowed under this specification.

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. Deviations to the requirements of this specification shall not be permitted without advance written approval from the contracting office.

3.6 Ease of maintenance. Design of the sweeper shall permit ready accessibility to all parts for maintenance and repair by the use of tools commonly associated with equipment of this nature. Ease of maintenance provisions shall incorporate features insuring clearances between adjacent components to facilitate maintenance and servicing operations. Components containing liquids shall be provided with an accessible means for draining. Drainage of all liquids shall be by gravity onto the ground. Integral tubes or troughs may be used to convey the liquids from the drain outlet to the ground.

3.7 Safety. Parts subject to high operating temperatures, moving or rotating parts, including drums, 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 of the sweeper.

3.8 Performance.

3.8.1 Mobility. The sweeper shall be capable of being towed in the travel position (broom and air nozzle(s) raised) at not less than 35 miles per hour (mph). The snow broom shall be capable of sweeping a 12 foot wide swath at a angle of 30 degrees ($^{\circ}$) while traveling at a speed of 25 mph.

3.8.2 Angle of approach and departure. The sweeper, with the broom removed and air nozzle(s) raised, shall have a minimum angle of approach and departure of 20° .

3.8.3 Towing force. With the broom in the raised position and the sweeper on dry, level concrete, the force required to pull the sweeper shall be less than 50 pounds per ton of weight.

3.9 Chassis components.

3.9.1 Frame. The frame shall be of welded structural or tubular steel construction, of sufficient strength to withstand permanent distortion or damage under all operating conditions specified herein.

3.9.2 Engine. The sweeper shall be powered by a diesel engine having horsepower, torque, and speed characteristics to satisfactorily meet all sweeper performance requirements specified herein. The engine shall be equipped with cold starting aid, glow plugs or other types and shall start and operate at temperatures from -25 to 125 degrees Fahrenheit ($^{\circ}$ F). The engine shall be

complete with the accessories normally furnished with the sweeper, including at least the following:

- a. Fuel tank.
- b. Engine housing.
- c. Instrument panel.
- d. Lubricant oil pressure gage.
- e. Cooling liquid temperature indicator.
- f. Tachometer.
- g. Hour meter.
- h. Fuel quantity indicator.
- i. Battery charging indicator.
- j. Governor.
- k. A 12-volt electric cranking system, complete with maintenance free battery(s) with total reserve capacity rating and total cold cranking ratings at 0°F in accordance with SAE J537.

3.9.2.1 Air cleaner. A dry type engine intake air cleaner of adequate capacity for the engine furnished shall be provided. Means shall be provided to prevent snow from being blown into the air cleaner intake.

3.9.2.2 Fuel system. The fuel system shall be a commercial standard, with the fuel tank having sufficient capacity for not less than 8 hours of continuous operation at maximum engine revolutions per minute. The tank shall be properly baffled to prevent surging. The tank shall be equipped with an easily accessible filler neck and drain plug. The filler opening shall permit easy filling from fuel cans or hose nozzle. An accessible fuel shutoff valve shall be provided at the tank outlet, if the outlet is at bottom of tank.

3.9.2.3 Fuel and oil filters. Commercial standard fuel and oil filters shall be provided as recommended by the engine manufacturer, for use under the conditions as specified herein. The filters shall be readily accessible and shall provide for easy removal and replacement.

3.9.2.4 Safety devices. The engine shall be equipped with safety devices that will automatically shut off the engine under conditions of low lubricating oil pressure; high engine coolant temperature; high hydraulic oil temperature; and engine overspeed.

3.9.3 Wheels and tires. The sweeper shall be equipped with at least three basic wheels (exclusive of broom casters), one front and two rear wheels, of the tricycle type. The front wheel assembly shall be attached to the tow bar and swivel mounted and so positioned that debris from sweeping is not thrown onto the wheel during sweeping operations. The three wheel and tire assemblies shall be identical. Tires, rims, and loadings shall be in accordance with TRA recommendations.

3.9.4 Tow bar. The tow bar shall be designed for towing by vehicles having a pintle hook height between 30 and 48 inches above ground level. The tow bar shall be equipped with a 3 inch inner diameter lunette ring. Safety chains shall be provided for securing the tow bars to the towing vehicle. Safety chains and the tow bar shall meet the requirements of DoT Federal Motor Carrier Safety Regulations.

3.9.5 Broom and blower drive. The broom and blower shall be driven either by means of mechanical (chain and sprocket) or by hydrostatic drive, powered from the sweeper engine. Drive shall be commercial standard type adequate for the intended purpose. The drive shall be arranged to operate the broom and blower independently or simultaneously. When a hydrostatic drive is supplied, it shall be of the hydraulic closed-loop system. When the drive is of the chain and sprocket type, it shall be enclosed in an oiltight case. Adequate means shall be provided for chain takeup to provide for chain and sprocket wear. All chains and sprockets shall be adequately guarded. The engine shall be equipped with a heavy duty over-center type clutch power takeoff or other adequate means for engagement and disengagement of the blower and rotary broom.

3.9.6 Rotary broom assembly. The rotary broom shall be 14 feet in minimum length and 36 inches in diameter and as an assembly shall consist of fillers and mounting devices mounted on a power driven core assembly. The diameter of the core shall be maintained for the full length around the true center within the specified tolerance of plus or minus 1/64 inch. The core shall be balanced in accordance with industry standard practice. Provisions shall be made to permit removal of one (or both) broom core and plate(s). Unless otherwise specified (see 6.2), the broom material shall be synthetic, mounted on the steel core.

3.9.6.1 Broom hood. The broom hood shall keep snow and debris picked up by the broom from being thrown back on the sweeper and swept area. The hood shall be constructed of sheet steel. The hood shall cover the upper section of the broom and incorporate a front deflector. The deflector shall be hinged and adjustable to assume the proper discharge of dirt and snow, and facilitate easy removal of the broom. The broom hood shall be automatically adjusted to maintain uniform broom clearance as broom wears. This adjustment shall be automatically accomplished with the adjustment for broom sweeping pattern as broom tufts wear.

3.9.6.2 Casters. Two heavy-duty casters with pneumatic tires shall be mounted on the broom frame in such a manner that they will always travel in the swept path. The vertical center line of the caster pin shall remain perpendicular to the ground thru the total broom adjustment. The caster wheels shall be free to swivel a full 360° and shall be equipped with anti-shimmy devices. The complete caster assembly shall be easily removable for replacement. The pneumatic tires and rims shall be in accordance with TRA recommendations.

3.9.6.3 Broom adjustment. Sweeper shall incorporate a hydraulic system for raising, lowering, and angling the broom. A crank-operated adjustable stopper be built into the broom lifting cylinder. It shall be possible to adjust the broom pattern hydraulically by means of push button controls on the control panel (see 3.9.10), and also by a control switch located on the main sweeper frame adjacent to the broom, then locked in position by the adjustable stopper. The adjustment shall be sufficient to allow up to 9 inches of broom wear. Raising and lowering the broom assembly shall not affect the preset broom pattern on the runway surface. The broom shall be capable of being angled right or left.

3.9.7 Hydraulic system. The hydraulic system shall consist of hydraulic cylinder, pump, reservoir, valves, controls, and required plumbing. The pump

shall be driven by the sweeper engine and shall have adequate capacity to provide satisfactory operation of the sweeper. A 10 micron paper element filter of the throwaway type shall be built in the return line. A manually operated hand pump shall be provided to operate the system when the engine is not running.

3.9.8 Blower assembly. The blower assembly shall be a single inlet, double outlet, centrifugal blower rated at not less than 10,000 cubic feet per minute at manufacturer's recommended rpm. The blower assembly shall be mounted forward of the engine and directly the rear of the broom assembly to provide immediate air discharge across the broomed area.

3.9.9 Air discharge. Two air discharge ducts be provided that can be raised 6 inches to provide ground clearance in the traveling position. During the sweeping operation, one of the nozzles shall always be in line with the leading edge of the broom while the opposite discharge duct directs the air toward the trailing edge or window. The nozzles shall be positioned so that the air blast is 90° to the line of travel and in the direction of the broom discharge. High torque, low speed, hydraulic motors shall rotate nozzles through 180° when the broom is swung to the opposite working side. Hinged doors at the nozzle opening shall be provided to shut off the airflow when required. By means of a selector valve, it shall be possible to reverse the rotation of the nozzles relative to the broom. It shall be possible to close one nozzle to divert full airflow to the outside nozzle permitting high air blast for runway light cleaning. The air nozzles shall be designed to provide air discharge velocity of at least 200 mph effective on the swept area. Air discharge ducts, baffled to direct the flow of air and meeting the requirements and performance specified below, are acceptable in lieu of discharge nozzles.

3.9.10 Remote controls. A weatherproof remote control box for mounting in the cab of the towing vehicle shall be provided. The box shall contain a tachometer, emergency engine stop button, engine speed control switch, and a four-way toggle switch controlling the position of the broom and air nozzles. The panel or box shall have a handle and shall be so attached to a flexible electric cable that is can be easily placed or removed from the cab. The remote control cable shall have a breakaway connection at the towbar. The remote control box and cable shall be stored on the sweeper when not in use.

3.9.11 Lighting. The sweeper shall be equipped with the following lighting equipment:

- a. Taillights, clearance lights, and reflectors in accordance with DoT Federal Motor Carrier Safety Regulations. Stoplights shall be installed high on the rear air ducts.
- b. Floodlight(s) mounted at the front of the sweeper to light the area being swept and the air discharge nozzle area during runway light cleaning. This lighting shall be effective regardless of sweeping position.
- c. A warning light of the rotating or flasher type shall be installed on the highest point of the sweeper and shall be visible 360° around the sweeper.

3.9.12 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 pounds-force per square inch or higher, will damage grease seals or other parts, a suitable warning shall be affixed to the equipment in a conspicuous location.

3.9.13 Dimensions. The overall road dimensions of the sweeper, excluding the rotary broom, shall not exceed 130 inches in width and 100 inches in height. When the broom and nozzle assemblies are in the raised position, the ground clearance shall be not less than 8 inches for the nozzle and 4 inches for the broom.

3.9.14 Weight. The sweeper shall be of the minimum weight consistent with the requirements specified herein.

3.9.15 Servicing and adjusting. Prior to acceptance of the sweeper by the Government inspector, the contractor shall service and adjust the sweeper for immediate operational use.

3.10 Lifting and tiedown attachments. When specified (see 6.2), the sweeper 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 sweeper. 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 sweeper on the carrier when shipped.

3.11 Instruction plates. The sweeper shall be equipped with instruction plates suitably located, describing any special or important procedures to be followed in operating and servicing the equipment. Plates shall be securely affixed to the sweeper and be of a material which will last and remain legible for the life of the equipment.

3.12 Name plate. A name plate shall be furnished by the contracting officer for each unit. The contractor shall stamp all necessary data in the blank spaces provided for that purpose and securely affix it to each unit in a conspicuous place.

3.13 Radio noise suppressors. Electromagnetic radiation from the sweeper shall not exceed the limits recommended by SAE J551.

3.14 Cleaning, treatment, and painting. Surfaces normally painted in good commercial practice shall be cleaned, treated, and painted as specified herein. Surfaces to be painted shall be cleaned and dried to insure that they are free from contaminants such as soil, grease, welding slag and spatter, loose mill scale, water, dirt, corrosion product, or any other contaminating substances. As soon as practicable after cleaning, and before any corrosion product or other coating interfering can result, the surface shall be prepared or treated to insure the adhesion of the finish coat. The painting shall

consist of at least one coat of primer and one finish coat. The primer shall be applied to a clean, dry surface as soon as practicable after cleaning and treating. Painting shall be in accordance to manufacturer's current processes and materials with total dry film thickness not less than 2.5 mils over the entire surface. The paint shall be free from runs, sags, orange peel, or other defects. Color of the finish coat shall be as specified (see 6.2) and conform to FED-STD-595. The end item, allied equipment, and attachments shall be the same color.

3.15 Workmanship.

3.15.1 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.

3.15.2 Bolted connections. Bolt holes 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.

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

3.15.5 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.

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 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 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.

4.1.2 Material inspection. The contractor is responsible for insuring that supplies and materials are inspected for compliance 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. When required (see 3.2 and 6.2), a first article inspection shall be performed on one sweeper. 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.

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 packaging inspection of 4.5.

4.3 Examination. Each sweeper 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. The first article sweeper shall be tested for compliance with 4.4.1 through 4.4.7. Each production sweeper shall be tested for compliance with 4.4.7. Failure to pass any test shall constitute cause for rejection.

4.4.1 Sweeping performance test.

4.4.1.1 Snow. The sweeper shall efficiently remove new fallen snow (5 pounds per cubic foot) 2 inches deep, or reduce depth of proportionately higher density snow, from a paved surface not less than 12 feet wide and 1,000 feet long. Removal shall be in a single pass at a sweeping speed of 25 mph with the broom angled 30° either right or left, at the contractor's option. Upon completion, the paved surface shall be examined. There shall be no evidence of excessive broom bounce or caster shimmy as evidence by failure to maintain clean pavement over the entire swept areas.

4.4.1.2 Alternate sweeping test. In the absence of snow, sand shall be evenly distributed at a depth of 1/4 inch over a rectangular paved area 12 feet wide and 500 feet long. The sweeper shall remove not less than 90 percent of the sand, with the blower assistance, in a single pass at a sweeping speed of 15 mph.

4.4.2 Mobility. The sweeper, with broom and nozzle in the raised position, shall be towed at speeds not less than 35 mph over paved roads or runways and for not less than 50 miles without damage to determine conformance to 3.8.1.

4.4.3 Towing. The force required to tow the sweeper on dry level concrete, with broom in the raised position, shall be measured and shall not exceed 50 lb per ton of weight to determine conformance to 3.8.3.

4.4.4 Angle of approach and departure. The sweeper, with the broom removed and air nozzle raised, shall enter, negotiate, and leave a ramp which has a slope of 20°. The length of the ramp shall be not less than the overall length of the sweeper.

4.4.5 Lifting and tiedown attachments tests. When furnished, the lifting and tiedown attachments shall be tested to determine conformance to 3.10.

4.4.6 Measurements of electromagnetic radiation. When furnished, to determine conformance to 3.13, electromagnetic radiation shall be measured in accordance with SAE J551. The manufacturer may, upon approval of the contracting officer, furnish a certification in lieu of the test requirements, together with a list of the suppression devices installed. The list shall be sufficiently detailed to allow visual determination that the devices are installed.

4.4.7 Operational test. Operational test on the sweeper shall cover all controls, broom, blower, and maneuverability. The engine shall be operated through the complete speed range. The broom shall be lowered, engaged, and operated for not less than 5 minutes each in the straight ahead position and in maximum angle position both right and left, to determine conformance to 3.9.6.3. Blower shall be operated and air flow switched back and forth to opposite directions to determine conformance to 3.9.8 and 3.9.9. At the conclusion of these tests, the sweeper shall be carefully examined for defects.

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

5. PACKAGING

5.1 Preservation, packing, and marking. The sweeper shall be preserved in accordance with the contractor's standard practice in a manner to prevent deterioration and damage and insure arrival at destination in a satisfactory condition. Preparation for delivery shall comply with applicable carrier rules and regulations. When specified (see 6.2), preservation, packing, and marking shall be in accordance with MIL-T-3351, type II (unboxed/mobile) with the level of preservation and level of packing as specified (see 6.2).

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 sweeper covered by this specification is intended for all season snow and sand sweeping of airport runways, taxiways, ramps, and other airfield paved areas.

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 2.3).
- c. When first article is required for inspection and approval (see 3.2, 4.2.1, and 6.4).
- d. When broom material shall be other than specified (see 3.9.6).
- e. When lubrication is other than manufacturer's standard lubricant (see 3.9.12).
- f. When lifting and tiedown attachments are required (see 3.10).
- g. Color of finish coat (see 3.14).
- h. When preservation, packing, and marking in accordance with MIL-T-3351 is required, with the level of preservation and level of packing 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 should be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved Contract Data Requirements List (GDRL), incorporated into the contract. When the provisions of DOD FAR Supplement, Part 27, Sub-Part 27.475-1 (DD Form 1423) 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.

6.4 First article. When a first article inspection is required, the item will be tested and should be a first production item consisting of one sweeper 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. The contracting officer should include specific instructions in acquisition documents regarding arrangements for examination, test, and approval of the first article.

6.5 Subject term (key word) listing.

Runway
Street cleaner
Snow blower

6.6 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Preparing Activity:
Navy - YD

(Project 3825-N197)