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UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

SPECIFICATION FOR

CASE, BELT WEATHER KIT

Beneficial comments (recommendations, additions, deletions) and any pertinent data that may be used in improving this document should be addressed: via electronic mail <wo_mtdc_webmaster@fs.fed.us> or U.S. mail to the U.S. Department of Agriculture, Forest Service, National Technology and Development Program, 5785 Highway 10 West, Missoula MT 59808.

FSC 8465

RECORD OF REVISIONS

This is a complete revision. Numbered sections and appendixes may no longer correspond to those in the previous revision. Major changes are listed below. Minor changes that do not modify the intent of the specification are not listed.

Change	Reason
Update formatting	More readable to reading software
Numerous grammatical and typographical errors corrected	Ease of reading

CONTENTS

1. SCOPE

1.1. Scope.

This specification covers the requirements for a nylon case to carry field weather instruments.

1.2. Interpretations and Definitions.

1.2.1. Interpretation.

To carry out the provisions of this document, the word “shall” is understood to be mandatory.

1.2.2. Definitions.

Nonconformity: A departure of a quality characteristic from its intended level or state that occurs with severity sufficient to cause an associated product or service not to meet a specification requirement (per ANSI/ASQ Z1.4).

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 in effect on the date of the solicitation.

Specifications

Federal

A-A-59826 - Thread, Nylon

Military

MIL-W-4088 - Webbing, Textile, Woven Nylon

MIL-DTL-32075 - Label: For Clothing, Equipage, and Tentage, (General Use)

MIL-PRF-5038 - Tape, Textile and Webbing, Textile, Reinforcing, Nylon

MIL-F-10884 - Fasteners, Snap

MIL-W-27265 - Webbing, Textile, Woven Nylon, Impregnated

NASM27980 - Fastener, Snap, Style 2 (Regular Wire Spring Clamp Type)

Standards

Federal

FED-STD-123 - Marking for Shipment (Civil Agencies)

FED-STD-376 - Preferred Metric Units for General Use By the Federal Government

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

2.1.2. Other Government documents.

The following other Government documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those in effect on the date of the invitation for bids or request for proposals.

Drawings

USDA Forest Service

MTDC-505 - Case, Belt Weather Kit

Copies of Forest Service drawings are available from the Preparing Activity (6.5).

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 these documents are those in effect on the date of the invitation for bids or request for proposals.

American Society for Quality (ASQ)

ANSI/ASQ Z1.4 - Sampling Procedures and Tables for Inspection by Attributes

Copies of ANSI/ASQ documents are available online at www.asq.org, or in hard copy from the American Society for Quality, P.O. Box 3005, Milwaukee, WI 53201-3005.

ASTM International

D 1974 - Standard Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Shipping Containers

D 3951 - Standard Practice for Commercial Packaging

D 5118 - Standard Practice for Fabrication of Fiberboard Shipping Boxes

D 6193 - Standard Practice for Stitches and Seams

Copies of ASTM specifications and standards are available online at www.astm.org, or in hard copy from ASTM International, 100 Barr Harbor Dr., West Conshohocken, PA 19428-2959.

National Motor Freight Traffic Association, Inc., Agent

National Motor Freight Classification

Copies are available online at www.nmfta.org, or in hard copy from National Motor Freight Traffic Association, Inc., 1001 North Fairfax Street, Suite 600, Alexandria, VA 22314.

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

3. REQUIREMENTS

3.1. First article.

Unless otherwise specified (see 6.2), the item shall be subjected to first article inspection (see 6.4) in accordance with 4.3. During the term of the contract the contractor shall be required to notify the contracting officer in writing when a component, or the component supplier, changes in any way; when a major manufacturing process changes in any way; and when a manufacturing location changes. The contracting officer may at any time require the contractor to submit a new first article sample when substantive changes occur during the term of the contract.

3.2. Materials and components.

Materials and components shall be as specified herein and in MTDC-505.

3.2.1. Polyurethane coated nylon cloth.

The cloth shall meet the requirements of table 1. The cloth shall be bright red to match the color sample (see 6.3). The yarn shall be continuous filament, nominal 400 denier, nylon, for both warp and filling.

Table 1. Physical requirements, polyurethane coated nylon cloth.

Characteristic	Requirement	Test
Weave	Plain	Visual
Weight (coated)	6.1 oz./sq. yd., minimum	5041
Urethane back coat weight	0.50 to 0.75 oz./sq. yd.	1/
Grab strength (coated)		
Warp	275 pounds, minimum	5100
Fill	225 pounds, minimum	5100
Yarn count		
Warp	58 minimum	5050
Fill	36 minimum	5050
Face finish	DWR	Visual

1/ Unless otherwise specified, a certificate of compliance shall be submitted and will be acceptable for the stated requirement.

3.2.2. Webbing, 2-1/4 inch.

The 2-1/4 inch webbing shall conform to Type VIIIc of MIL-W-4088. The color shall be black. The webbing shall be resin impregnated conforming to class R treatment of MIL-W-27265.

3.2.3. Binding tape.

The binding tape shall be type III MIL-PRF-5038, 1 inch width, color black.

3.2.4. Fasteners, snap.

The snap fasteners shall conform to style 2, finish 2, 24 line, size 1 of MIL-F-10884, and shall be part numbers -1B (button), -6B (socket), -7B (stud), and -8B (eyelet) of NASM27980.

3.2.5. Thread, nylon.

The thread shall conform to type II, class A of A-A-59826. The thread for all stitching shall be size E. The color for all thread shall be black.

3.2.6. Keeper with slide.

The keeper with slide shall conform to type X MIL-H-9890. The color shall be black.

3.2.7. Markings.

The identification label and contents label shall be silk-screen imprinted on the fabric. The pocket numbers shall be silk-screen imprinted on the fabric. The silk-screen imprinting shall be in conformance with type IV, class 9 of MIL-DTL-32075 with the fastness as specified for class 5 markings, the cloth color shall not be visible under the markings.

3.2.7.1. Identification label.

The size of inscription characters shall be 1/4 (-0, +1/8) inch. The identification label shall be in the following format:

CASE, BELT WEATHER KIT

NSN 8465-00-521-3057

USFS SPEC. 5100-450D

CONTRACT NO.: [Contract no.]1/

[Manufacturer's name]1/

DATE OF MANUFACTURE: [mm/yy]1/

1/ The contractor shall insert the applicable information indicated.

3.2.7.2. Pocket contents label.

The size of inscription characters shall be 1/4 (-0 +1/8) inch. The contents label shall be in the following format:

POCKET	CONTENTS
1	WRITING BOARD
	HUMIDITY TABLES
2	ANEMOMETER
3	PSYCHROMETER
4	NOTEBOOKS
5	WATER BOTTLE
6	PENCILS
7	COMPASS

3.2.7.3. Pocket numbers.

The silk-screened pocket numbers shall be in the locations shown on MTDC-505. The numbers shall be 1/4 (-0, +1/8) inch.

3.3. Construction.

The construction shall conform in all respects to drawing MTDC-505.

3.3.1. Stitches, seams, and stitchings.

All stitching, except bartacking, shall conform to type 301 of ASTM D 6193, 6 to 8 stitches per inch.

3.3.1.1. Type 301 stitching.

Ends of stitching shall be backstitched or overstitched not less than 1 inch (1/2 inch for box-x) except where ends are turned under or caught in other seams or stitching. Thread tension shall be maintained so there will be no loose bobbin or top thread or excessively tight stitching resulting in puckering of the materials sewn. The lock shall be imbedded in the materials sewn.

3.3.1.1.1 Repairs of type 301 stitching.

Repairs of type 301 stitching shall be as follows (when making the following repairs, the ends of the stitching are not required to be backstitched):

a. When thread breaks or bobbin runouts occur during stitching, except presewing, the stitching shall be repaired by restarting the stitching a minimum of 1 inch (1/2 inch for box-x) back of the end of the stitching.

b. Except for prestitching, thread breaks or two or more consecutive skipped or runoff stitches noted during inspection of the item (inprocess or end item) shall be repaired by overstitching. The stitching shall start a minimum of 1 inch in back of the nonconforming area (1/2 inch on box-x), continue over the nonconforming area to a minimum of 1 inch into existing stitching. Loose or excessively tight stitching shall be repaired by removing the nonconforming stitching, without damaging the materials, and restitching in the required manner.

3.3.1.2. Bartacking.

Bartacking shall be free from thread breaks and loose stitching.

Length	Width	Length Tolerance	Width Tolerance	Stitches Per Bartack
½ inch	1/8 inch	1/16 inch	1/32 inch	28

3.3.1.3. Automatic stitching.

Automatic machines may be used to perform any of the stitch patterns provided the requirements for the stitch pattern, stitches per inch, size, and type of thread are met; and at least three or more tying, overlapping, or backstitches are used to secure the ends of the stitching.

3.3.1.4. Thread ends.

All thread ends shall be trimmed to 1/4 inch maximum length.

3.3.1.5. Lubrication of thread.

There shall be no lubrication of the thread by any means, before or during sewing (see 4.3.2).

3.3.1.6. Stitching margins.

Unless otherwise specified, all stitching margins shall be 1/8 inch.

3.3.2. Setting of snap fasteners.

A hole shall be prepunched to receive the button and eyelet components of the snap fasteners. The hole shall be smaller than the outside diameter of the button and eyelet barrels so that the barrel must be forced through the hole. The hole shall not be punched in the setting operation with the button or eyelet barrel. The fasteners shall be securely clinched without cutting the adjacent materials and no more than three splits shall occur in the button or eyelet barrels.

3.3.3. Fusing of ends of nylon cord and webbing.

All webbing ends shall be fused before being assembled for stitching. The apparatus used to fuse the webbing and cord ends shall provide enough heat to create a smooth edge with the cut ends of all webbing and cord yarns fused together.

3.3.4. Location marks.

Location marks may be drilled, providing the drill diameter does not exceed 0.076 inch. All drill holes shall be covered on the finished item. Printed markings shall be no more than 1/32 inch in width.

3.3.5. Repairs.

Repairs such as mends, darns, patches, or splices are not permitted on any component of the belt weather kit case.

3.3.6. Piecing.

No piecing or splicing of materials is allowed.

3.3.7. Replacement of nonconforming components.

During the spreading, cutting, and manufacturing process, components having material nonconformities or damages that are classified as nonconformities in 4.3.4.1 shall be removed from production and replaced with conforming and properly matched components.

3.3.8. Coated cloth surface.

The coated side of the main panel shall face the front of the case so that with the case closed, the coated side is face to face. The coated side of all other components shall face the back of the case.

3.4. Dimensions.

All dimensions except pattern sizes are finished dimensions, unless otherwise specified.

3.5. Patterns.

Standard patterns for textile components other than tape or webbing are shown full scale on drawings and provide allowances for all seams and shall be used for making working patterns. The working patterns shall be identical to Government standard patterns, which shall not be altered in any way. All parts shall be within 1/8 inch of the location(s) shown on the pattern(s).

3.6. Workmanship.

All items shall conform to the quality of product established by this document. The occurrence of nonconformities shall not exceed the applicable acceptable quality levels. There shall be no nonconformities that affect use, appearance, or serviceability.

3.7. Metric products.

Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch/pound units, provided they fall within the tolerances specified using conversion tables contained in the latest revision of FED-STD-376, and all other requirements of this specification are met.

3.8. Recovered materials.

The contractor/offeror is encouraged to use recovered materials to the maximum extent possible in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

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/her 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 or tests set forth in this specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements. Inspection records of the examination and tests shall be kept complete and available to the Government.

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 nonconforming material, either indicated or actual, nor does it commit the Government to accept nonconforming material.

4.1.2. Responsibility for dimensional requirements.

Unless otherwise specified in the contract or purchase order, the contractor is responsible for ensuring that all specified dimensions have been met. When dimensions cannot be examined on the end item, inspection shall be made at any point or at all points in the manufacturing process necessary to ensure compliance with all dimensional requirements.

4.1.3. Certification of Conformance.

Unless otherwise specified, certificates of conformance (COC) supplied by the manufacturer of the item, component, or material, listing the specified test method and test results obtained, may be furnished in lieu of actual lot by lot testing performed by the contractor (see 4.2.3). When certificates of compliance are submitted, the Government reserves the right to check test such items to determine the validity of the certification. In addition, when the contractor changes component or material suppliers, a new certification based on actual test results shall be required.

4.2. Inspections and tests.

Sampling for inspections and tests shall be made in accordance with ANSI/ASQC Z1.4. The inspection level and acceptable quality level (AQL) shall be as specified. All belt weather kits manufactured at one time shall be considered a lot for purposes of acceptance inspection and test. A sample unit shall be one complete belt weather kit case.

4.2.1. Classification of Inspection.

The inspection requirement specified herein are classified as follows:

a. First article inspection (4.2.4).

b. Quality conformance inspections (4.2.5).

4.2.2. Component and material inspection.

In accordance with 4.1, components and materials shall be inspected in accordance with all the requirements of referenced documents, drawings, and standards unless otherwise excluded, amended, modified, or qualified in this specification or applicable purchase document.

4.2.3. Certification.

Unless otherwise specified (see 6.2), as part of first article presentations and lot inspections, it shall be acceptable for the contractor to provide certificates of compliance for all materials and components in lieu of actual lot by lot testing. In addition, when the contractor changes component or material suppliers, a new certification based on actual test results shall be required. The contractor shall also furnish a certificate of compliance for the requirement of 3.3.1.5 prohibiting use of thread lubricants before or during sewing.

4.2.3.1. Component certification

Unless otherwise specified (6.2), as part of first article presentations and lot inspections, it shall be acceptable for the contractor to provide certificates of conformance for all materials and components in lieu of lot by lot testing. The contractor shall furnish a certificate of conformance for the requirements of 3.3.5 verifying that thread lubricants have not been used before or during sewing. All certificates shall include as a minimum:

a. Specification, type, class, form, etc. as applicable

b. Quantity purchased

c. Purchase source, address, and telephone number

d. Purchase date

e. Lot number traceable to materials used in production

f. Contract number

4.2.3.2. Certificates of conformance required:

a. Polyurethane nylon cloth (3.2.1)

b. Webbing (3.2.2)

c. Binding tape (3.2.3)

d. Snap Fastener (3.2.4)

e. Nylon thread (3.2.5)

f. Slide keeper (3.2.6)

4.2.4. First article inspection.

When first articles are required, they shall be inspected and approved under the appropriate provisions of Federal Acquisition Regulation 52.209. Unless otherwise specified, the first article inspection samples submitted in accordance with 3.1 shall be visually and dimensionally inspected as specified in 4.2.5.2.1 and 4.2.5.2.2, grading of the inspections shall be as shown in Table 2. The presence of any nonconformity, whether major or minor or failure to pass any test shall be cause for nonacceptance of the first article submission. All Government inspection of the first article sample(s) shall stop upon a single failure. The contractor shall be informed as to the nature of the failure, but the Government is not obligated to continue testing an item once it is known to be noncompliant or when it is considered in the best interest of the Government.

Table 2. First Article Inspection

Nonconformance	Section	Classification	
		Major	Minor
1. Certificates of conformance missing or incomplete	4.2.4.2	X	
2. End item visual examination not as specified	4.2.5.2.1	X	
3. End item dimensional examination not as specified	4.2.5.2.2	X	

4.2.4.1. First Article Inspection Package.

The contractor shall submit to the Government—along with first articles selected in accordance with 4.2.4.2—copies of:

a. All certificates of conformance (4.2.3).

b. Company inspection records (4.1).

c. All test results for the first article samples.

d. All other information necessary to perform the inspections identified in 4.2.4.

4.2.5. Quality Conformance Inspection

4.2.5.1. In-process inspection.

Inspection shall be made at any point or during any phase of the manufacturing process to determine whether cut lengths, cut parts, markings for location of components, and location of assembled component parts are in accordance with specified requirements. Inspection shall be made to determine that holes drilled for location marking do not exceed 0.076 inch diameter and are placed in such a manner that each shall be covered in the finished item

(see 3.3.4). Whenever nonconformance is noted, corrections shall be made to the parts affected and lot in process. Components that cannot be corrected shall be removed from production.

4.2.5.2. End item examination.

4.2.5.2.1. End item visual examination.

The end items shall be examined for the nonconformities list in table 3 on a lot by lot basis. The lot size shall be expressed in units of complete belt weather kit case. The inspection level shall be S-3, and the acceptable quality level (AQL), expressed in terms of nonconformities per hundred units, shall be 4.0 for major nonconformities and 15.0 for combined major and minor nonconformities. Unless otherwise specified, nonconformities shall be scored on an individual basis, i.e., each seam, each stitching end, each dimension, etc.

Table 3. End item visual nonconformities.

Examine	Nonconformity	Major Classification	Minor Classification
Nylon duck cloth	Not type specified	X	
	Any hole (except location marks), cut or tear	X	
	Any abrasion mark, smash, slub, broken or missing yarn, multiple floats, or open place, clearly visible at normal inspection distance of 3 feet		X
	Needle chew	X	
	NOTE: Needle holes visible as the result of broken or skipped stitching or stitching that has been removed shall not be considered as needle chews, providing that the holes are spaced as in normal stitching.		
	Color not as specified	X	
	Shade bar, fine or coarse filling bar		X
	Coating nonconforming or partially omitted		X
	Coated side facing wrong way		X
Webbing	Size or type not as specified	X	
	Color not as specified	X	
	Any hole, cut, tear, or smash	X	
	Abrasion mark, slub, broken end, or pick		X
	Cut ends not fused or not fused as specified	X	
	Not firmly and tightly woven	X	
	Edges frayed or scalloped	X	
	Multiple floats		X
Binding Tape	Size or type not as specified	X	
	Color not as specified	X	
Thread	Type, class, or size not as specified	X	
	Any thread lubricated		X
	Color not as specified		X

Examine	Nonconformity	Major Classification	Minor Classification
Open seam	NOTE: A seam shall be classified as open when one or more stitches joining a seam are broken or when two or more consecutive skipped stitches or run-offs occur. On double stitched seams, a seam shall be considered open when either one or both sides of the seam are open.		
	1/2 inch or less		X
	More than 1/2 inch	X	
Raw Edge (on edge required to be finished)	More than 1/2 inch when securely caught in the stitching	X	
	Note: Raw edge not securely caught in stitching shall be classified as an open seam.		
Run-off	See open seam		
Seam and stitch type	Seam or stitch type not as specified	X	
Bartacks	One or more bartacks omitted	X	
	Any bartack not as specified or not in the specified location		X
	Stitching loose, incomplete, or broken		X
Stitch tension	NOTE: Non-conformities to be scored only when the condition exists for a continuous 4 inches or more, or in several areas with an accumulated distance of 8 inches or more. Applicable to individual seams.		
	Loose, resulting in loose bobbin or top thread		X
	Excessively tight, resulting in puckering of material		X

Examine	Nonconformity	Major Classification	Minor Classification
Stitches per inch	NOTE: Variation in the number of stitches per inch caused by the operator speeding up the machine and pulling the cloth in order to sew over heavy places or in turning corners shall be classified as follows: Within the minor non-conformity classification - no non-conformity Within the major non-conformity classification - minor non-conformity Non-conformities to be scored only when a condition exists on any one seam for a length of 6 inches or more or when the combined length of several areas exceeds 10 inches.		
	Up to two stitches less than minimum specified		X
	Three or more stitches less than minimum specified	X	
	Two or more stitches in excess of the maximum specified		X
Stitching margin (not otherwise specified)	NOTE: Non-conformities to be scored only when the condition exists for 4 inches or more or in several areas with an accumulated distance of 8 inches or more. Applicable to individual seams.		
	Exceeds specified tolerance up to 1/16 inch		X
	Exceeds specified tolerance over 1/16 inch	X	
Stitching ends	Not secured as specified		X
Thread breaks, skipped stitches or run-offs (unless otherwise classified herein)	NOTE: Thread breaks or two or more consecutive skipped stitches or run-offs not overstitched shall be classified as open seams.		
	Not overstitched as specified		X
Rows of stitching	Any row missing except on box-x stitching	X	
	One row of stitching on box-x is omitted		X
	Two or more rows of stitching on box-x omitted	X	

Examine	Nonconformity	Major Classification	Minor Classification
Components and assembly	Any component part omitted or not as specified or any operation omitted or not as specified (unless otherwise classified herein)	X	
	Needle chews	X	
	Any mend, darn, patch, splice, or other unauthorized repair	X	
	Any material pleated or caught in stitch line where not specified		X
Piecing	Any piecing or splicing except as specified	X	
Keeper with slide	Slide portion of keeper jams failing to effect a secure closure		X
	Not inserted through channels in hanger as indicated on drawings		X
Snap fasteners	Any fastener not functioning properly, i.e., fails to snap closed, provide a secure closure, or open freely	X	
	NOTE: The fasteners shall be snapped and unsnapped twice to determine whether parts of fastener separate freely and also effect a secure closure.		
	Clinched excessively tight, cutting adjacent material	X	
	Clinched loosely, permitting any component to rotate freely but not to the degree that any component can be expected to become detached during use.		X
	Clinched loosely to the degree that components can be expected to become detached during use.	X	
	NOTE: Incomplete roll of end of button or eyelet barrel is evidence of improper and insecure clinching.		
	Incorrect style.	X	
	More than three splits in eyelet or button barrels.	X	

Examine	Nonconformity	Major Classification	Minor Classification
Cleanness	Grease, oil, dirt, ink, or other stains clearly noticeable	X	
	Thread ends not trimmed to 1/4 inch or less		X
Labels	Type or class not as specified	X	
	Incorrect type, size, or information	X	
	Not in the location specified	X	

4.2.5.2.2. End item dimensional examination.

End items shall be examined for the nonconformities listed in table 4 on a lot by lot basis. Only those dimensions that can be evaluated without damaging or disassembling the end items shall be examined. The inspection level shall be S-3. An AQL, expressed in terms of nonconformities per hundred units, shall be 6.5 major nonconformities and 15.0 for combined major and minor nonconformities.

Table 4. End item dimensional non-conformity.

Examine	Nonconformity	Major Classification	*Minor Classification*
Dimensions (overall)	Smaller than nominal dimensions less applicable minus tolerance indicated on drawings, but not smaller than nominal dimensions less twice the applicable minus tolerances		*X*
	Smaller than nominal dimensions less twice the applicable minus tolerance	X	
	Larger than nominal dimensions and applicable plus tolerance		*X*
Component and location dimensions (not otherwise classified herein)	Not within the specified tolerance		*X*
Box-x stitching	Dimensions not as specified		*X*
Stitch margin and gauge	*Not within the specified tolerance*		*X*

4.2.5.3. Packaging inspection.

An examination shall be made to determine that packing and marking comply with the section 5 requirements. Non-conformities shall be scored in accordance with Table 5. The sample unit shall be one shipping container fully packaged except that it shall not be palletized and it need not be closed. Shipping containers fully packaged that have not been palletized shall be examined for non-conformities in closure.

Table 5 —Packaging inspection

Examine	***Nonconformity***
Markings	*Omitted; incorrect; illegible; of improper size, location, sequence, or method of application.*
Materials	*Any component missing or not as specified.*
	Any component damaged, affecting serviceability.
Workmanship	*Inadequate application of components, such as incomplete closure of container flaps, improper taping, loose strapping, inadequate stapling or bulged or distorted container..*
Contents	*Number of items per container is more or less than required.*

5. Preparation For Delivery

5.1. Preservation.

Preservation shall be in accordance with ASTM D 3951 and as specified in the contract or purchase order.

5.1.1. Unit pack.

Each belt weather kit case shall be inserted in a snug-fitting clear polyethylene film bag. Bag closure shall be effected by heat-sealing with the seal made as close as possible to the open end, with excess air within the bag being expelled during the final heat-sealing closure operation.

5.2. Packing.

Twenty five (25) belt weather kit cases, packaged as specified, shall be packed in close-fitting fiberboard boxes, minimum burst strength 125 psi, meeting the requirements of the latest version of ASTM D 5118. Boxes shall be in compliance with the National Motor Freight Classification. Each box shall be closed in accordance with the latest version of ASTM D 1974, except that the inspection shall be in accordance with 4.4.

5.3. Marking.

In addition to any special marking required by the contract or purchase order, shipping containers and unit packs shall be marked in accordance with FED-STD-123. Bar code marking is required. The National Fire Equipment System (NFES) number "NFES 1154" shall be inserted below the NSN on the shipping container.

6. NOTES

6.1. Intended use.

The belt weather kit case is intended to hold and transport the essential components needed to make field weather observations.

6.2. Ordering data.

Documents utilizing this material should specify the following:

a. Title, number and date of this specification.
b. When first article samples are not required (see 3.1, 4.3, and 6.4).
c. When lot by lot testing is required in lieu of certificates of compliance (see 4.3.2).
d. Preservation, packing, and marking required in addition to specification requirements (see section 5).

6.3. Standard shade sample.

Color shade samples for the bright red cloth may be obtained from the preparing activity (see 6.5).

6.4. Notice.

When Government drawings, specifications or other data are used for any other purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever.

6.5. Preparing Activity.

USDA Forest Service, National Technology and Development Program, 5785 Hwy 10 West, Missoula, Montana 59808.