

SECTION C

This document covers thermostabilized Cuban style garlic sauce with beef strips packaged in a polymeric tray for use by the Department of Defense as a component of operational rations.

C-1 ITEM DESCRIPTION

PCR-C-079, CUBAN STYLE GARLIC SAUCE WITH BEEF STRIPS, PACKAGED IN A POLYMERIC TRAY, SHELF STABLE

C-2 PERFORMANCE REQUIREMENTS

A. Product standard. A sample shall be subjected to first article (FA) or product demonstration model (PDM) inspection as applicable, in accordance with the tests and inspections of Section E of this Performance-based Contract Requirements (PCR) document. The approved sample shall serve as the product standard. Should the contractor at any time plan to, or actually produce the product using different raw material or process methodologies from the approved Product Standard, which result in a product non comparable to the Product Standard, the contractor shall arrange for a new or alternate FA or PDM approval. In any event, all product produced must meet all requirements of this document including Product Standard comparability.

B. Commercial sterility. The packaged food shall be processed until commercially sterile.

C. Shelf life. The packaged product shall meet the minimum shelf life requirement of 36 months at 80°F.

D. Appearance.

(1) General. The finished product shall be Cuban style garlic sauce with beef strips. The finished product shall be free from foreign materials.

(2) Beef. The beef strips shall be thin strips produced from whole muscle beef rib, blade meat, North American Meat Processors Association (NAMP) Item No. 109B. Chunking and forming shall not be allowed. The beef strip may have a maximum length of 2-1/2 inches and a width of 1/4 inch (range of 3/16 to 3/8 inches). The beef strips shall be free of bone or bone fragments, cartilage, coarse connective tissue, tendons or ligaments, and glandular material. The beef strips shall have a medium brown, cooked beef color with dark brown edges.

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(3) Sauce. The sauce shall have a red brown color and shall be semi-opaque and glossy with distinct visible specks of herbs, spices, and minced garlic. The sauce shall be moderately thick.

E. Odor and flavor. The packaged food shall have an odor and flavor of cooked beef in a peppery and slightly sweet sauce seasoned with herbs, spices and garlic. The packaged food shall be free from foreign odors and flavors.

F. Texture.

(1) Beef. The beef strips shall be slightly moist and slightly tender.

(2) Sauce. The sauce shall be moderately thick and smooth with soft bits of minced garlic.

G. Net weight. The average net weight shall be not less than 90 ounces (2551 grams). The net weight of an individual polymeric tray shall be not less than 88 ounces (2495 grams).

H. Drained weight. The average drained weight of the beef shall be not less than 40.0 ounces (1134 grams). No individual polymeric tray shall have a drained weight of less than 38.0 ounces (1077 grams).

I. Palatability and overall appearance. The finished product shall be equal to or better than the approved product standard in palatability and overall appearance.

J. Analytical requirements.

(1) Fat content. The fat content shall be not greater than 8.5 percent.

(2) Salt content. The salt content shall be not less than 0.7 percent and not greater than 2.2 percent.

C-3 MISCELLANEOUS INFORMATION

THE FOLLOWING IS INFORMATION ONLY TO PROVIDE THE BENEFIT OF PAST GOVERNMENT EXPERIENCE. THIS IS NOT A MANDATORY CONTRACT REQUIREMENT.

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A. Ingredients and formulation. Ingredients and formulation may be as follows:

<u>Sauce</u>	<u>Percent by weight</u>
Water	76.71
Cuban garlic seasoning mix <u>1/</u>	17.82
Modified food starch	3.63
Beef base, low sodium	1.84

1/ Ingredients: Distilled vinegar, aged cayenne red peppers, maltodextrin, Cuban garlic dry rub (dehydrated garlic and onion, spices, sugar, lime juice powder (corn syrup solids, lime juice solids, lime oil), parsley, turmeric and silicon dioxide), water, garlic powder, salt, high fructose corn syrup, sugar, molasses, citric acid, tomato paste, spices, corn syrup, natural flavors, modified food starch, mustard bran, caramel color, silicon dioxide, onion powder, lecithin, rosemary extract (soy lecithin, carrageenan gum and sodium benzoate (as preservative).

French's® Cuban garlic rub dry blend was used for this product.

B. Product preparation. Percentages for product preparation may be as follows:

<u>Ingredient</u>	<u>Percent by weight</u>
Sauce	51.5
Beef Steak Strips, pre-cooked <u>1/</u>	48.5

1/ Beef Steak Strips, pre-cooked, product code 1290, from Quantum Foods were used for this product.

SECTION D

D-1 PACKAGING

A. Preservation. Product shall be filled into polymeric trays and the trays with protective sleeves shall conform to the requirements of section 3 of MIL-PRF-32004, Packaging of Food in Polymeric Trays. Verification testing and inspection of trays, lids and sleeves shall be in accordance with Section 4 of MIL-PRF-32004 and the Quality Assurance Provisions of Section E of this Performance-based Contract Requirements document.

B. Polymeric tray closure. The filled, sealed, and processed tray shall be securely closed.

D-2 LABELING

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A. Polymeric tray body. The polymeric tray body shall be clearly printed or stamped, in a manner that does not damage the tray, with permanent ink of any contrasting color, which is free of carcinogenic elements. One end of the polymeric tray (see figure 1 of MIL-PRF-32004) shall be marked with the product name and number of portions. If the tray body end markings are not readily legible in low light conditions, a small, easily legible label shall be applied, but not over any existing tray markings. All other markings may be applied along the tray body side. To avoid erroneous marking of trays, the product name, lot number and filling equipment number shall be applied prior to processing. Additional tray marking may be applied before or after processing. 1/

Tray body markings shall include:

- (1) Product name. Commonly used abbreviations may be used.
- (2) Tray code includes: 2/
 - Lot Number
 - Filling equipment identification number
 - Retort identification number
 - Retort cook number

1/ As an alternate method, tray body markings may be clearly printed or stamped onto the polymeric tray lid prior to processing, in a manner that does not damage the lid, with permanent ink of any contrasting color, which is free of carcinogenic elements, provided that the required markings are applied onto the tray body after processing.

2/ The lot number shall be expressed as a four digit Julian code. The first digit shall indicate the year of production and the next three digits shall indicate the day of the year (Example, 14 February 2010 would be coded as 0045). The Julian code shall represent the day the product was packaged into the tray and processed. Sublotting (when used) shall be represented by an alpha character immediately following the four digit Julian code. Following the four digit Julian code and the alpha character (when used), the other required code information shall be printed in the sequence as listed above.

B. Polymeric tray lid. The lid shall be clearly printed or stamped in a manner that does not cause damage. Permanent ink of any contrasting color, which is free of carcinogenic elements, shall be used. As an alternate labeling method, a pre-printed self-adhering 0.002 inch thick clear polyester label printed with indelible contrasting color ink may be used.

Note: The font tested by Natick was Microsoft Helvetica. The font used shall be similarly clear/easy to read as Helvetica. The recommended font sizes are as follows: 22 for the product name, 14 for “yield” and “to heat in water.” If an additional note is required on the

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label, such as “fluff before serving,” it should also be in font size 14. All other information should be in font size 9.

- (1) Lid labeling shall include:
 - Product name
 - Ingredients
 - Net weight
 - Name and address of packer
 - Official inspection legend
 - “Nutrition Facts” label in accordance with the Nutrition Labeling and Education Act (NLEA) and all applicable USDA regulations.
- (2) Lid labeling shall also show the following statements:

YIELD: Serves 18 portions of approximately 2/3 cup each of Cuban garlic beef.

TO HEAT IN WATER: Submerge unopened tray in water. Bring water to a boil. Simmer gently 35-40 minutes. Avoid overheating (tray shows evidence of bulging).

WARNING: Do not heat tray in oven.

TO TRANSPORT AFTER HEATING: Insert tray back into protective sleeve to protect during transport. If sleeve is unavailable, stack trays lid-to-lid with fiberboard pads in between.

CAUTION: Use care when opening as pressure may have been generated within the tray.

TO OPEN: Using a clean knife, cut the lidding around the inside perimeter of the tray seals.

SUGGESTION: Cut lid along 3 sides and fold over uncut portion. Fold back to keep unused portions protected.

(3) The product shall be formulated and labeled in accordance with all USDA labeling regulations and policies. The lid shall be labeled with the following product name.

~~CUBAN STYLE GARLIC SAUCE WITH BEEF STRIPS~~ Cuban BRAND Garlic
Sauce with Beef Strips – MADE IN THE USA

Comment [RDNS-CFF1]: ES12-035 (DSCP-SS-52279), change 01, 21 May 12; p. 5, Section D-2 paragraph B(3), line 3: delete “CUBAN STYLE GARLIC SAUCE WITH BEEF STRIPS”; insert “Cuban BRAND Garlic Sauce with Beef Strips – MADE IN THE USA”.

D-3 PACKING

A. **Packing.** Four filled, sealed, processed and sleeved polymeric trays shall be packed in a fiberboard box conforming to style RSC-L of ASTM D 5118/D 5118M, Standard Practice for Fabrication of Fiberboard Shipping Boxes. The fiberboard shall conform to type CF, class D,

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variety SW, grade 275 of ASTM D 4727/D 4727M, Standard Specification for Corrugated and Solid Fiberboard Sheet Stock (Container Grade) and Cut Shapes. The sleeved trays shall be placed flat with the first two trays placed with the lids together and the next two trays with the lids together. The box shall be closed in accordance with ASTM D 1974, Standard Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Boxes.

D-4 UNITIZATION

A. Unit loads. Unit loads shall be as specified in DSCP FORM 3507, Loads, Unit: Preparation of Semiperishable Subsistence Items.

D-5 MARKING

A. Shipping containers and unit loads. Marking of shipping containers and unit loads shall be as specified in DSCP FORM 3556, Marking Instructions for Boxes, Sacks, and Unit Loads of Perishable and Semiperishable Subsistence.

SECTION E INSPECTION AND ACCEPTANCE

The following quality assurance criteria, utilizing ANSI/ASQ Z1.4, Sampling Procedures and Tables for Inspection by Attributes, are required. Unless otherwise specified, single sampling plans indicated in ANSI/ASQ Z1.4 will be utilized. When required, the manufacturer shall provide the Certificate(s) of Conformance to the appropriate inspection activity. Certificate(s) of Conformance not provided shall be cause for rejection of the lot.

A. Definitions.

(1) Critical defect. A critical defect is a defect that judgment and experience indicate would result in hazardous or unsafe conditions for individuals using, maintaining, or depending on the item; or a defect that judgment and experience indicate is likely to prevent the performance of the major end item, i.e., the consumption of the ration.

(2) Major defect. A major defect is a defect, other than critical, that is likely to result in failure, or to reduce materially the usability of the unit of product for its intended purpose.

(3) Minor defect. A minor defect is a defect that is not likely to reduce materially the usability of the unit of product for its intended purpose, or is a departure from established standards having little bearing on the effective use or operation of the unit.

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

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(1) Product standard inspection. The first article or product demonstration model shall be inspected in accordance with the provisions of this document and evaluated for overall appearance and palatability. Any failure to conform to the performance requirements or any appearance or palatability failure shall be cause for rejection of the lot. The approved first article or product demonstration model shall be used as the product standard for periodic review evaluations. All food components that are inspected by the USDA shall be subject to periodic review sampling and evaluation. The USDA shall select sample units during production of contracts and submit them to the following address for evaluation:

US Army Research, Development, and Engineering Command
Natick Soldier Research, Development, and Engineering Center
RDNS-CFF
15 Kansas Street
Natick, MA 01760-5056

One lot shall be randomly selected during each calendar month of production. Two (2) sample units of each item produced shall be randomly selected from that one production lot. The two (2) sample units shall be shipped to Natick within five working days from the end of the production month and upon completion of all USDA inspection requirements. The sample units will be evaluated for the characteristics of appearance, odor, flavor, texture and overall quality.

(2) Conformance inspection. Conformance inspection shall include the examinations and the methods of inspection cited in this section.

E-5 QUALITY ASSURANCE PROVISIONS (PRODUCT)

A. Product examination. The finished product shall be examined for compliance with the performance requirements specified in Section C of this Performance-based Contract Requirements document utilizing the double sampling plans indicated in ANSI/ASQ Z1.4. The lot size shall be expressed in trays. The sample unit shall be the contents of one tray. The inspection level shall be S-3 and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 4.0 for major defects and 6.5 for minor defects. Defects and defect classifications are listed in table I below. The trays shall be heated in accordance with the heating instructions from the tray label prior to conducting any portion of the product examination. The samples for drained weight inspection shall be selected using the same sampling criteria as above.

TABLE I. Product defects 1/ 2/ 3/

Category		Defect
<u>Major</u>	<u>Minor</u>	
		<u>General</u>
101		Product not Cuban style garlic sauce with beef strips.
		<u>Appearance</u>
102		Bone or bone fragment measuring more than 0.3 inch in any dimension.
	201	Total weight of cartilage, coarse connective tissue, tendons or ligaments, and glandular material more than 2.0 ounces.
	202	Beef strips not medium brown cooked beef color or not dark brown edges.
	203	Sauce not a red brown color, or not semi-opaque or not glossy with distinct visible specks of herbs or spices or minced garlic.
	204	Sauce not moderately thick.
		<u>Odor and flavor</u>
103		Packaged food does not have an odor or flavor of cooked beef in a peppery and slightly sweet sauce seasoned with herbs, spices and garlic.
		<u>Texture</u>
	205	Beef strips not slightly moist or not slightly tender.
	206	Sauce not moderately thick or not smooth with soft bits of minced garlic.

TABLE I. Product defects 1/ 2/ 3/ continued

Category		Defect
<u>Major</u>	<u>Minor</u>	
		<u>Net weight</u>
	207	Net weight of an individual polymeric tray less than 88 ounces (2495 grams). <u>4/</u>
		<u>Drained weight</u>
	208	Drained weight of beef in an individual polymeric tray less than 38.0 ounces (1077 grams). <u>5/ 6/</u>

1/ Presence of any foreign materials such as, but not limited to dirt, insect parts, hair, glass, wood, or metal, or any foreign odors or flavors such as, but not limited to burnt, scorched, rancid, sour, stale, musty or moldy shall be cause for rejection of the lot.

2/ Finished product not equal to or better than the approved product standard in palatability and overall appearance shall be cause for rejection of the lot.

3/ NAMP Item No. 109B for beef strips shall be verified by a producer's Certificate of Conformance (CoC).

4/ Sample average net weight less than 90 ounces (2551 grams) shall be cause for rejection of the lot.

5/ Sample average drained weight less than 40.0 ounces (1134 grams) shall be cause for rejection of the lot.

6/ CoC required for beef strips prior to processing to verify that there shall be no more than 5.5 percent fines through a 3/8 inch sieve and 10 percent fines through a 1/2 inch sieve screen and no more than 5.0 percent sliver slices which are less than 3/16 inches thick at the thickest point.

B. Methods of inspection.

(1) Commercial sterility. Commercial sterility shall be verified in accordance with USDA/FSIS regulations.

(2) Shelf life. The contractor shall provide a Certificate of Conformance that the product has a 36 month shelf life when stored at 80°F. Government verification may include storage for 6 months at 100°F or 36 months at 80°F. Upon completion of either storage

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period, the product will be subjected to a sensory evaluation panel for appearance and palatability and must receive an overall score of 5 or higher based on a 9 point hedonic scale to be considered acceptable.

(3) Net weight. The net weight of the filled and sealed polymeric tray shall be determined by weighing each sample unit on a suitable scale tared with a representative empty tray and lid. Results shall be reported to the nearest 1 ounce or to the nearest 1 gram.

(4) Drained weight. To determine drained weight, the contents shall be poured into a flat-bottom container. A minimum of three times the polymeric tray's volume of not less than 140° F water shall be added to the container so as to cover the contents. The contents and water shall be gently agitated so as to liquefy rendered fat and to remove sauce without breaking the beef strips. The contents shall then be poured into a U.S. Standard No. 7 sieve in a manner that will distribute the product over the sieve without breaking the beef strips. Sieve area shall be such that the distributed product does not completely cover all the openings of the sieve. The sieve shall be tilted at such an angle so as to assure complete drainage of liquid from the product. Drain product for two minutes before determining the drained weight by subtracting the sieve tare weight from the gross weight. The drained weight shall be reported to the nearest 0.5 ounce or to the nearest 1 gram.

(5) Analytical. The sample to be analyzed shall be a one-pound composite of three filled and sealed polymeric trays that have been selected at random from one production lot. The composite sample shall be prepared and analyzed in accordance with the following Official Methods of Analysis (OMA) of AOAC International.

<u>Test</u>	<u>Method Number</u>
Fat	985.15
Salt	935.47

Test results shall be reported to the nearest 0.1 percent. Government verification will be conducted through actual testing by a Government laboratory. Any result not conforming to the analytical requirements shall be cause for rejection of the lot.

E-6 QUALITY ASSURANCE PROVISIONS (PACKAGING AND PACKING MATERIALS, POLYMERIC TRAY)

A. Packaging and labeling.

(1) Polymeric tray testing. For purposes of clarification, the polymeric tray without the lid will be referred to as the "tray" and the polymeric tray with the lid shall be referred to as the "container". The polymeric tray with protective sleeve and polymeric tray material shall be examined for the characteristics listed in table I of MIL-PRF-32004, Packaging of

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Food in Polymeric Trays. The lot size, sample unit, and inspection level criteria are provided in table II below for each of the test characteristics. Any test failure shall be classified as a major defect and shall be cause for rejection of the lot. For rough handling survivability at frozen temperature, polymeric tray survival rate shall be at least 85 percent.

TABLE II. Polymeric tray quality assurance criteria
Prior to processing

Characteristic	Lot size expressed in	Sample unit	Inspection level
Tray configurations and dimensions	Trays	1 tray	S-1
Oxygen gas transmission rate of tray	Trays	1 tray	S-1
Oxygen gas transmission rate of lid	Yards	1/2 yard	S-1
Water vapor transmission rate of tray	Trays	1 tray	S-1
Water vapor transmission rate of lid	Yards	1/2 yard	S-1
Camouflage	Containers	1 container	S-1

After processing

Characteristic	Lot size expressed in	Sample unit	Inspection level
Processing	Trays	1 tray	S-2
Rough handling survivability	Test containers	1 container	S-2
Protective sleeve	Containers	1 container	S-1
Residual gas	Containers	1 container	S-1
Closure seal	Containers	1 container	S-1
Internal pressure	Containers	1 container	S-1
Lid opening	Containers	1 container	S-1

(2) Examination of container. The container with protective sleeve removed shall be examined for the defects listed in table II of MIL-PRF-32004 and the labeling defects listed in table III below. The lot size shall be expressed in containers. The sample unit shall be one

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processed and labeled container. The inspection level shall be I and the AQL, expressed in terms of defects per hundred units, shall be 0.65 for major A defects, 2.5 for major B defects and 4.0 for minor defects. Two hundred sample units shall be examined for critical defects. The finding of any critical defect shall be cause for rejection of the lot.

TABLE III. Container labeling defects

Category		Defect
<u>Major A</u>	<u>Minor</u>	
101		Polymeric tray lid or body labeling missing or incorrect or illegible.
	201	When a pre-printed self adhering label is used, the label not adhering to tray lid (for example, label raised or peeled back from edge to corner) or presence of any areas of gaps along the perimeter of the label where the label is not properly adhered.

(3) Label adhesive examination. When self-adhering labels are used, the adhesive shall be tested in accordance with ASTM D 3330/D 3330M, Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape. In lieu of testing, a CoC shall be provided.

B. Packing.

(1) Shipping container and marking examination. The filled and sealed shipping containers shall be examined for the defects listed in table IV below. The lot size shall be expressed in shipping containers. The sample unit shall be one shipping container fully packed. The inspection level shall be S-3 and the AQL, expressed in terms of defects per hundred units, shall be 4.0 for major defects and 10.0 for total defects.

TABLE IV. Shipping container and marking defects

Category		Defect
<u>Major</u>	<u>Minor</u>	
101		Marking missing or incorrect or illegible.
	102	Inadequate workmanship. <u>1/</u>
	201	Arrangement or number of polymeric trays not as specified.

1/ Inadequate workmanship is defined as, but not limited to, incomplete closure of container flaps, loose strapping, inadequate stapling, improper taping, or bulged or distorted container.

C. Unitization.

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(1) Unit load examination. The unit load shall be examined in accordance with the requirements of DSCP FORM 3507, Loads, Unit: Preparation of Semiperishable Subsistence Items. Any nonconformance shall be classified as a major defect.

SECTION J REFERENCE DOCUMENTS

Unless otherwise specified, the issues of these documents are those active on the date of the solicitation or contract.

DSCP FORMS

DSCP FORM 3507 Loads, Unit: Preparation of Semiperishable Subsistence Items

DSCP FORM 3556 Marking Instructions for Boxes, Sacks, and Unit Loads of Perishable and Semiperishable Subsistence

MILITARY SPECIFICATIONS

MIL-PRF-32004 Packaging of Food in Polymeric Trays

GOVERNMENT PUBLICATIONS

Federal Food, Drug, and Cosmetic Act and regulations promulgated thereunder (21 CFR Parts 1-199) and (9 CFR Parts 1-391)

NON-GOVERNMENTAL STANDARDS

AMERICAN SOCIETY FOR QUALITY (ASQ) www.asq.org

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

ASTM INTERNATIONAL www.astm.org

D 1974 Standard Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Boxes

D 3330/D 3330M Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape

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D 4727/D 4727M Standard Specification for Corrugated and Solid
Fiberboard Sheet Stock (Container Grade) and Cut
Shapes

D 5118/D 5118M Standard Practice for Fabrication of Fiberboard
Shipping Boxes

AOAC INTERNATIONAL www.aoac.org

Official Methods of Analysis (OMA) of AOAC International

NORTH AMERICAN MEAT PROCESSORS ASSOCIATION(NAMP) www.namp.com

Meat Buyers Guide

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For DLA Troop Support Website Posting

RDNS-CFF

21 May 2012

TO: DLA Troop Support – Subsistence DSCP-FTRE

SUBJECT: ES12-035 (DSCP-SS-12-52279); Document change to PCR-C-079, Cuban Style Garlic Sauce with Beef Strips, Packaged in a Polymeric Tray, Shelf Stable; name change for subject item CUBAN BRAND GARLIC SAUCE WITH BEEF STRIPS – MADE IN THE USA

1. Contractor submitted the subject Performance-based Contract Requirements (PCR) name in label form to the USDA labeling division for approval. The submittal was approved as modified with the name changed to “Cuban BRAND Garlic Sauce with Beef Strips – MADE IN THE USA”.
3. PCR-C-079 Section D-2 paragraph B(3) states "The product shall be formulated and labeled in accordance with all USDA labeling regulations and policies. The lid shall be labeled with the following product name. CUBAN STYLE GARLIC SAUCE WITH BEEF STRIPS".
2. The USDA cited regulation was 9CFR317.8 in which was described the geographical name must be recognized in order to use “style” in the name. The reviewer said that Cuban was not a recognized style and the label would also need to state the country in which the product is manufactured in the name.
4. Natick recommends that subject document Section D-2 paragraph B(3) be changed and submits the following change to subject document for all current, pending, and future procurements until the document is formally amended or revised:

p. 5, Section D-2 paragraph B(3), line 3: delete “CUBAN STYLE GARLIC SAUCE WITH BEEF STRIPS”; insert “Cuban BRAND Garlic Sauce with Beef Strips – MADE IN THE USA”.
6. Attached is change 01, PCR-C-079, Cuban Style Garlic Sauce with Beef Strips, Packaged in a Polymeric Tray, Shelf Stable, dated 21 May 2012, with change highlighted.