UNITED STATES DEPARTMENT OF HEALTH AND HUMAN SERVICES
FOOD AND DRUG ADMINISTRATION

Petition for Rulemaking on Nutrition Labeling )
for Food and Beverages Sold in Single-Serving )
Containers )

Docket No. ______________
______________________________________)

Submitted by the

CENTER FOR SCIENCE IN THE PUBLIC INTEREST

October 28, 2004

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I. Introduction

This petition requests action by the Food and Drug Administration ("FDA") to improve the nutrition labeling of single-serve packages of three categories of food and beverage products. This petition is submitted pursuant to sections 403(a), 403(q), and 701(a) of the Federal Food, Drug, and Cosmetic Act, section 4(e) of the Administrative Procedure Act, 5 U.S.C. §553(e), and 21 C.F.R. §§10.25 and 10.30.

The trend of increasing sizes of snack foods and beverages makes the current Nutrition Facts label on some products a misleading source of information for the average consumer. Numerous companies label certain single-serving products as containing multiple servings, contrary to §403(a) of the Federal Food, Drug and Cosmetic Act ("the Act").1 Consumers are often led to believe that they are ingesting a fraction of the calories, fat, sodium, and cholesterol that the full-package serving actually contains. The Institute of Medicine of the National Academy of Sciences recently recommended that companies be required to more accurately label products that are consumed in a single serving.2

Under FDA’s current regulatory scheme, as restated in its March 12, 2004, Letter to Food Manufacturers, manufacturers have the discretion to label over-sized products as either single or


multi-serving products. FDA’s regulations must be revised to reflect realistic consumption patterns and to establish a more informative and less confusing labeling scheme for consumers.

II. Action Requested

The Center for Science in the Public Interest (“CSPI”) requests that the FDA promptly initiate rulemaking to change the definition of “single-serving container” within 21 C.F.R. §101.9(b)(6) for at least two categories of food products and adopt a new labeling scheme for snack foods.

- The cut-off for soft drinks/beverages and muffins/baked goods should be raised to include 300% of the applicable “reference amount customarily consumed” (“RACC”). 21 C.F.R §101.9(b)(6) should be amended by adding an additional provision defining the new cut-off for the two categories: “For soft drinks/beverages and muffins/pastries, packages sold individually that contain up to and including 300% of the applicable reference amount must be labeled as a single serving.” These packages would be labeled in the traditional format but would be required to list nutrition information for the entire package. Besides carbonated soft drinks, “beverages” should include bottled milk, fruit drinks, fruit juices, and other products.

- FDA should require manufacturers to label snack packages containing between 200% and up to and including 400% of the RACC as follows. If the product is usually consumed by one person, it should be labeled as a single-serving. If one person could consume the product, but the product is often consumed by multiple persons, the manufacturer should utilize dual-column labeling (labeling on a per-serving and per-package basis for the Nutrition Facts panel) and a front label declaring the number of (RACC) servings per package.
FDA should also consider whether cut-off levels for other categories of over-sized “single-serve” foods, such as candy bars, dried soups, frozen entrees, pizza crusts, and fruit cups, should be raised.

III. Statement of Factual Grounds


Single-serving packages of soft drinks, snack foods, and individually-wrapped baked goods have increased in size since 1993. The 20-oz. bottle of soda is now a ubiquitous item in supermarkets, delis, convenience stores, and vending machines and is even defined as a “single-serve” container by the vending industry.³ One packaging firm created the “Big Slam” 20-oz. bottle in response to Pepsi-Co’s request for a “single-serve vessel that conveyed Pepsi values and the cola consumption experience.”⁴ Coca-Cola markets 24-ounce bottles for people who “thirst for more.”

Increasing sizes of containers and larger serving sizes at restaurants have helped fuel increases in soft-drink consumption in the last 25 years.⁵ Yet, 16-oz., 20-oz., and 24-oz. bottles are labeled as containing multiple servings. Current nutrition labeling may mislead consumers who might not understand that the serving labeled on the Nutrition Facts panel as containing 100 calories actually contains 250 calories if the entire bottle (which is labeled as containing 2.5 servings) is consumed at a single sitting.⁶ Such labels also understate the amount of sugar


⁵ Nielsen SJ, Popkin BM. “Patterns and trends in food portion sizes, 1977-1998.” JAMA. 2003 Jan 22;289(4):450-3. Portion sizes are probably larger than what is reported in the study because the last data was collected in 1998.
consumed at one sitting (and in the case of snack and baked foods, discussed below, the amounts of fat and sodium as well). Such labels thereby present a much better nutritional profile for the food than is actually the case.

Similarly, the introduction of Large Single-Serve (“LSS”) snacks in 1994 contributed to the proliferation of increasingly large snack packages. Bags of chips containing as much as 4.5 times the reference amount (1-oz.) for chips, are sold alongside 1-oz. bags at convenience stores, vending machines and by street vendors. It is clear that many consumers eat the entire contents of 2-oz., 3-oz., and 4 oz. bags (and those somewhere in between) at a single sitting or within a short period of time. One study reports that the average portion of salty snacks eaten at a single sitting increased from 1 ounce to 1.6 ounces between 1977-1998 and 1994-1996. Again, portion sizes are probably larger now than what is reported in the study because the last data analyzed were collected almost 10 years ago. One vending industry newsletter reports that the average salty-snack consumption is over 2-oz. per eating occasion for vending machines because such machines are now a midday meal source.9 Moreover, Kraft’s decision, as discussed below, to provide dual-column labeling for snack packages and beverages that contain between 200% and 400% of the reference amount, and are generally consumed by more than one person,

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6 Coca-Cola and PepsiCo have announced that they will use dual-column labeling on certain over-sized single-serving beverage containers. That represents some progress, but, voluntary labeling schemes by various companies likely will lead to inconsistencies and confusion.


reflects the obvious fact that many consumers eat entire super-sized bags of snacks at a single sitting.\(^{10}\)

Jumbo-sized 4-oz. and 5-oz. muffins, popular items in convenience stores, continue to be labeled as containing multiple servings. Most people will consume an entire muffin or breakfast pastry at a time, especially when the package looks like it contains one serving.\(^{11}\) FDA’s Working Group on Obesity reported that when participants in their study were presented with a mock-up label of a 20-oz. soda and a large packaged muffin, they thought it was misleading to list either product as having more than one serving.\(^{12}\)

Specific examples of over-sized “single-serving” products are given in our October 27, 2004, letter to the FDA, which we incorporate by reference into this Petition (Attachment A).

**B. Recent Scientific Evidence Suggests that Increased Soft-Drink Consumption Contributes Significantly to the Obesity Epidemic.**

Three recent studies link consumption of soft drinks with weight gain and obesity.\(^{13}\) One study of school children found that the chances of becoming obese increased significantly with each additional daily serving of a sugar-sweetened drink.\(^{14}\) The second found that the percentage

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\(^{10}\) Kraft’s labeling may be confusing because the number of grams or milligrams of nutrients for a single serving and the entire package are listed—separated by commas—just after the name of the nutrient. However, there is no explanation for why two numbers are given.

\(^{11}\) FDA itself stated in the Preamble to 21 C.F.R. §101.9 that “one unit products in discrete units such as muffins” are examples of products that are obviously intended to be consumed in one serving. 58 Fed. Reg. at 2233.


\(^{13}\) Another study limited to snack foods consumed at one point in time, as opposed to changes over the course of time, as was done in the other studies found no correlation between snack food intake and weight change among children and teens. Field, AE, Austin SB et al, “Snack food intake does not predict weight change among children and adolescents.” Int. J. Obes. Metab Disord. 2004 Oct; 28(10):1210-6. The usefulness of this study is limited as a result of the methodology used by its authors.

of overweight and obese children decreased in a group that was encouraged to, and did, consume fewer soft drinks than a control group.\textsuperscript{15} A third study correlated weight gain in adult women with increased consumption of soft drinks.\textsuperscript{16} In addition, overall obesity rates have risen in tandem with national per capita soft-drink consumption, and heavy consumers of such products have higher calorie intakes.\textsuperscript{17}

C. Some Snack-Food and Soft-Drink Companies have Announced they will Label Some of Their Products in Accordance with Real Consumption Patterns.

Not only do scientific evidence and consumption patterns support reforming single-serving labeling regulations, but one major snack-food company, Kraft, has recognized that more realistic labeling of single-serving products will “reflect changing perspectives on diet, activity and weight.”\textsuperscript{18} For products sold in amounts equal to 200\% to 400\% of the RACC, Kraft will label the packages as follows. Products typically consumed by one person at one time will constitute a single serving. If a product is sometimes consumed by one person, but usually by more than one person, Kraft will provide nutrition information for both the full package and per serving. Kraft will also state the number of servings on the front of the package.\textsuperscript{19} Thus, Kraft’s Ritz chips are labeled based on a serving size of 13 chips (29g) as well on the nutrition profile of the entire package. The front of the package states “About 2 Servings.”


\textsuperscript{17} Analyses by Environ. Data on consumption of soft drinks, milk, and calorie intake were obtained or calculated from USDA surveys, including the Continuing Survey of Food Intakes of Individuals (CSFII), 1994-96; 1987-88; Nationwide Food Consumption Surveys, 1977-78. See USDA web site: www.barc.usda.gov/bhnrc/foodsurvey/home.htm (accessed July 5, 2002).


The combination of a principal display panel (PDP) disclosure and dual labeling on the Nutrition Facts Panel will alert consumers to snack foods that are high in calories and may prompt them to make better dietary choices. Kraft’s efforts reflect only one company’s move in the right direction, and FDA should require the rest of the food industry to label their over-sized single-serving products in a consistent and non-misleading way.

A second major company, Coca-Cola, announced that it would provide dual-column labeling on certain over-sized containers of soft drinks that it considers single servings. However, the company has indicated that it does not plan to change the labeling of its 24-ounce bottles that are for people with a “big thirst.” Furthermore, CSPI believes that it is disingenuous and misleading to use dual-column labeling on products that are marketed and consumed as single servings. News accounts indicate that a third large food processor, PepsiCo, will follow Coca-Cola’s lead by changing the labeling of its beverages, as well as its Frito-Lay snack foods.

A prominent maker of baked goods, Interstate Brands Companies (Hostess, Marie Callender’s, Dolly’s, Drake’s, Sunbeam, and others), is also moving toward dual-column labeling. However, its labeling is slightly different from Kraft’s. While Kraft shows the amounts of various nutrients for both the RACC servings and the whole package, as well as both %DVs (Daily Values), Interstate is giving the calories and %DVs for both serving sizes, but only the amounts of fat, sodium, and other nutrients for the RACC servings. Some people might

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think that the numbers of milligrams and grams reflect the entire package, instead of one small serving.

Voluntary initiatives by individual companies are welcome, but CSPI fears that different companies will label their products in different ways, leading to labeling inconsistencies and consumer confusion. FDA regulations, based on focus groups and other research, would prevent those unintended, but perhaps inevitable, problems. In the Appendix, we present an alternative that shows the amounts and DVs of nutrients for both a RACC serving and the entire package.

IV. Statement of Legal Grounds

Our discussion of marketing data, scientific evidence, and consumer consumption patterns indicates that FDA must reform outdated single-serving labeling regulations to address the problem of misleading labels. Clearly, FDA has authority under the Act to require manufacturers to re-label their oversized single-serving products. Further, changed circumstances call for FDA to reconsider its position regarding dual-column labeling and front labels.

A. Manufacturers Should Not be Permitted to Misleadingly Label their Products in Violation of §403(a).

In a Letter to Food Manufacturers dated March 12, 2004, FDA stated that “current serving size regulations allow for [jumbo or over-sized] products to be sold as either one, or more than one, serving even if they are usually consumed at one time.” Although FDA encouraged manufacturers to label their over-sized products as single servings, many manufacturers will not re-label their products as long as FDA regulations (notwithstanding the Preamble), formally permit them to label them as containing more than one serving. Listing multiple servings results in unrealistically low levels of calories, fat, sugar, and other nutrients on
the Nutrition Facts panel and makes a large single-serving product appear more healthful than it really is.

As stated in our accompanying letter, the flexibility of 21 C.F.R §101.9(b)(6), which (if the Preamble is ignored) permits some products that are reasonably consumed at one eating occasion to be labeled as containing multiple servings, should not continue to undermine the intent of Section 403(a) of the Federal Food, Drug, and Cosmetic Act (FDCA): Foods bearing labels that are false or misleading in any particular are misbranded. The FDA explicitly stated in the Preamble to its serving size regulations:

regardless of the package size a product that is obviously intended to be consumed in one serving (e.g., one unit products in discrete units such as muffins, ice cream bars, and sandwiches; products bearing label descriptions that suggest a single serving such as “singles” or “the perfect size for one”) must be labeled as one serving. Otherwise, the labeling will be misleading under section 403(a) of the act.

Revision of 21 C.F.R. §109(b)(6) to include certain over-sized products within the definition of “single-serving container” would prevent future injury by requiring food manufacturers to re-label those packages as containing a single serving.


FDA regulations codified at 21 C.F.R. §101.9(b)(6) state that manufacturers may label products as a single serving if “the entire contents of the package can reasonably be consumed at a single-eating occasion.” By adding a provision to 21 C.F.R. §101.9(b)(6) that raises the cut-

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23 FDCAS §343(a), 21 U.S.C. §403(a).


25 The relevant provision reads “Packages sold individually that contain 200 percent or more of the applicable reference amount may be labeled as a single-serving if the entire contents of the package can reasonably be
off to 300% for two of the most problematic food and beverage categories, FDA would make it clear that manufacturers must re-label their packages to avoid enforcement action.

In another development, the two largest soft-drink companies have announced plans to provide dual column Nutrition Facts panels on some of their beverage containers listing calorie and nutrient content for the entire package, as well as the reference amount customarily consumed. However, Coca-Cola’s policy will not include its 24-ounce bottles that are clearly intended as single-serving products (for people who “thirst for more”). Also, it is disingenuous, inappropriate, and misleading to use dual-column labeling on a product that is normally not shared by 2.5 people. However, such labeling schemes adopted by various manufacturers will not be standardized and thus will likely be confusing to many consumers. The FDA needs to propose regulations to ensure that consistent information is provided in the marketplace.

C. Raising the “Single-Serving” Cut-off to 300 Percent for Certain Products is Justified by Current Marketing Practices.

As set forth above and in section II of our accompanying letter to the FDA, new consumption data, marketing evidence, and scientific studies linking soft drinks to obesity make it clear that FDA must act once again to address problems caused by the trend toward larger single-serving packages. Even though the FDA’s 1993 Preamble specifically rejected a request to change the definition of a single-serving container so that larger sizes of a selected class of products would be required to be labeled as a single serving, that request did not present any food consumption data or other scientific basis, as we do in this Petition and accompanying letter, that would justify the suggested changes.26 Moreover, marketing practices, consumption

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patterns, and obesity levels have changed since 1993. Clearly, the 200% cut-off for soft drinks, muffins, and other baked goods is obsolete in light of current conditions.


FDA should require manufacturers of snack foods containing up to and including 400% of the RACC to label their products as single-serving packages if the package is typically consumed by one person at one time. If, however, a product containing up to 400% of the RACC is arguably consumed either at one time by one person, or several occasions by the same person, or by multiple persons, the product should not be labeled solely as a single serving. Instead, such products should be required to bear labeling on a per-serving and a per-package basis, with an additional declaration on the PDP that the over-sized product may serve up to and including 4 persons.

1) Dual-Columns on the Nutrition Facts Panel

While the statute requires serving sizes to be based on the “amounts customarily consumed” or “other units of measure,” the quantity consumed often may be the whole package even though a “reasonable” (RACC) serving would constitute only a fraction of the package (emphasis added). In those cases, information should be provided on the Nutrition Facts panel for both the customary serving size and the entire package to make it easier for health-conscious consumers to make informed decisions about the amount consumed. The second column is permissible for Nutrition Facts based on consumption of the entire package under FDA’s authority to require the declaration of serving size in terms of “other units of measure.”

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FDA’s 1993 rejection of a dual-column Nutrition Facts panel should be reconsidered in light of current marketing trends and consumption patterns. As the FDA’s own Obesity Working Group Report concluded, comments should be solicited on “whether to require additional columns in the Nutrition Facts panel.”

FDA should not let concerns over space constraints prevent it from undertaking a rulemaking to adopt our suggested labeling scheme. The typical, flat rectangular snack-food packages that would be affected by a 200% to 400% rule generally provide enough space to accommodate a second column of nutrition information based on the entire package. FDA already permits dual labeling for metric declarations, for two or more forms of the same food -- e.g., both “as purchased” and “as prepared” -- and products promoted for a use that differs in quantity by two-fold or greater from the use upon which the reference amount is based (e.g., liquid creamer substitutes promoted for use with breakfast cereals). FDA should solicit comments from industry and the general public on the best way to format new labels and conduct appropriate consumer research.

2) Principal Display Panel Disclosure

In addition, the FDA should require that manufacturers of products containing 200% to 400% of the RACC that are often not consumed by just one person to state on the PDP of packages “Serves ____,” with the blank being filled in with a whole number indicating the

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29 See note 12 supra at 5.A.3.

30 If labels are, indeed, too small for dual-column labeling, the FDA should require at least the calorie content of the entire package to be listed. Also, the Principal Display Panel should state “Contains ___ servings.”

31 21 C.F.R. §101.9(b)(10).

32 21 C.F.R. §101.9(e).

33 21 C.F.R. §101.9(b).
customary number of RACC servings that could be provided. That statement on the PDP, together with a dual-column Nutrition Facts panel, would provide consumers with a useful comparison as to the number of calories, as well as the amounts of fat and other nutrients. Such action is appropriate in light of the fact that the FDA has failed to take enforcement action against misleading labeling of snack foods under §403(a), as it stated it would do in 1993 when it rejected comments favoring a PDP disclosure.34

VI. Conclusions and Recommendations

Despite FDA’s good intentions, consumers today are misled by labeling on larger-sized single-serving packages of beverages, snack foods and baked goods and still lack simplified, reliable information to gauge their intake of calories, fat, sodium, and cholesterol. FDA should reform obsolete and ambiguous labeling regulations and should, therefore, immediately initiate a rulemaking to revise the single-serve cutoffs as described above. The need for such a rulemaking is heightened by the voluntary labeling schemes being adopted by companies that could lead to inconsistent labeling and confusion in the marketplace.

VII. Environmental Impact

The action requested is subject to a categorical exclusion under 21 C.F.R. §25.30(h) and therefore does not require the preparation of an environmental assessment.

VIII. Economic Impact

No statement of the economic impact of the requested action is presented because none has been requested by the Commissioner.

IX. Certification

The undersigned certify that, to the best knowledge and belief of the undersigned, this Petition includes all information and views on which the petition relies, and it includes representative data and information known to the petitioner which are unfavorable to the petition.

Respectfully submitted,

Michael F. Jacobson, Ph.D.
Executive Director

Bruce Silverglade
Director of Legal Affairs

Emily Lee
Office of Legal Affairs
## Nutrition Facts

<table>
<thead>
<tr>
<th></th>
<th>Amount Per Serving</th>
<th>% Daily Value</th>
<th>Nutrients for Entire Package</th>
<th>% Daily Value</th>
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<tbody>
<tr>
<td><strong>Calories</strong></td>
<td>150</td>
<td></td>
<td>525</td>
<td></td>
</tr>
<tr>
<td><strong>Total Fat</strong></td>
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<td>14%</td>
<td>32 g</td>
<td>49%</td>
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<tr>
<td><strong>Saturated Fat</strong></td>
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<td>13%</td>
<td>9 g</td>
<td>46%</td>
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<tr>
<td><strong>Cholesterol</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sodium</strong></td>
<td>260 mg</td>
<td>11%</td>
<td>910 mg</td>
<td>39%</td>
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<tr>
<td><strong>Total Carbohydrate</strong></td>
<td>16 g</td>
<td>5%</td>
<td>56 g</td>
<td>18%</td>
</tr>
<tr>
<td><strong>Dietary Fiber</strong></td>
<td>&lt; 1 g</td>
<td>2%</td>
<td>2 g</td>
<td>7%</td>
</tr>
<tr>
<td><strong>Sugars</strong></td>
<td>&lt; 1 g</td>
<td></td>
<td>2 g</td>
<td></td>
</tr>
<tr>
<td><strong>Protein</strong></td>
<td>2 g</td>
<td>4%</td>
<td>7 g</td>
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<tr>
<td><strong>Vitamin A</strong></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Vitamin C</strong></td>
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<td></td>
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</tr>
<tr>
<td><strong>Calcium</strong></td>
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<td></td>
<td></td>
<td>0%</td>
</tr>
<tr>
<td><strong>Iron</strong></td>
<td>0%</td>
<td></td>
<td></td>
<td>0%</td>
</tr>
</tbody>
</table>

*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs.