TO: NSF Joint Committee on Residential Equipment
FROM: Steve Tackitt, Chairperson of the Joint Committee
DATE: September 24, 2014
SUBJECT: Proposed revision to NSF/ANSI 184 – Residential Dishwashers (184i5r1)

Draft 1 of NSF/ANSI 184, issue 5 is being forwarded to the Joint Committee on Residential Equipment for consideration. Please review the changes proposed to this standard and submit your ballot by October 15, 2014 via the NSF Online Workspace (http://standards.nsf.org).

When adding comments, please identify the section number/name for your comment and add all comments under one comment number whenever possible. If you need additional space, please upload a word or pdf version of your comments online via the browse function.

Purpose
The proposed revision is to update the normative references of NSF/ANSI 184 to reflect recent revisions specifically to ANSI/AHAM DW-1-2005 Household Electric Dishwashers and the FDA Food Code.

Background
Issue paper RE-2013-1 for normative reference updates highlighted the need for updating all sections referring to ANSI/AHAM DW-1-2005 Household Electric Dishwashers, since it was recently revised.

The Joint Committee convened on September 22, 2014 to discuss the new language. Additional Normative References language updates were also identified and are reflected in this ballot.

Public Health Impact:
The proposed changes have no negative impact on public health.

If you have any questions about the technical content of the ballot, you may contact me in care of:

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c/o Joint Committee Secretariat
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NSF/ANSI Standard for Residential Equipment —

Residential dishwashers

2 Normative references

The following documents contain provisions that, through reference, constitute provisions of this Standard. At the time this Standard was balloted, the editions listed below were valid. All documents are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated.

ANSI/AHAM, DW-1-2005 2010 Household Electric Dishwashers sections 4.2, 4.3, 4.6, 4.7, 4.8.1, and 4.8.2.

ANSI/ASSE 1006/AHAM DW-2PR-1992 Plumbing Requirements for Household Dishwashers

FDA 2009 2013 Food Code

NSF/ANSI 2, Food equipment

Rationale: The ANSI/AHAM DW-1 and the FDA Food Code have been revised

3 Definitions

Terms used in this Standard that have special technical meaning are defined here.

3.18 residential dishwashing machine: A machine designed and constructed to wash and sanitize dishes by means of a spray wash and a sanitizing rinse and having an intended use in a private home or other location that is not a food establishment as defined by section 1.201-10 (36) in the 2009 2013 FDA Food Code.
6 Performance

6.1.2 Test method

The soil removal efficacy of a residential dishwasher shall be evaluated by observing its ability to remove test soil from dishes, glasses, and utensils. The test soil used to assess the soil removal of the residential dishwashing equipment shall be cultured buttermilk with 1% milk-fat content.

The residential dishwasher shall be conditioned and operated according to sections 4.2, 4.3, 4.6, 4.7.1, and 4.7.2 of ANSI/AHAM DW-1. Water hardness shall be between 4 and 200 ppm. Where necessary a cation exchange water softener may be used to maintain water hardness at this level.

6.2 Sanitization efficacy

6.2.1 Performance requirement

To ensure adequate sanitization, the rinse portion of one complete sanitizing wash cycle of a dishwasher shall deliver a minimum of 3600 HUEs at the surface of dishes.

6.2.2 Test method

The HUEs delivered by a dishwasher shall be quantified by continuously monitoring the temperature at the surface of three dinner plates in the lower rack and three glasses in the upper rack over the course of a complete dishwashing cycle. The residential dishwasher shall be conditioned and operated according to sections 4.2, 4.3, 4.6, and 4.7, 4.8.1, and 4.8.2 of ANSI/AHAM DW-1. The machine tub shall return to room ambient temperature before beginning the test. After verifying proper dishwasher functioning, the lower rack shall contain the three monitored plates distributed as shown in figure 6.1. The rest of the lower rack shall be filled with unmonitored plates.