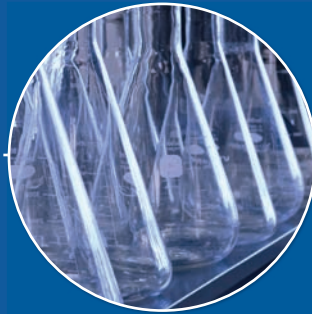




*NSF International Standard /
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NSF/ANSI 50 - 2010

Equipment for Swimming Pools, Spas,
Hot Tubs and Other Recreational
Water Facilities



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Chair, Joint Committee on Swimming Pool and Spa Equipment
c/o NSF International
789 Dixboro Road, P.O. Box 130140
Ann Arbor, Michigan 48113-0140 USA
Phone: (734) 769-8010 Telex: 753215 NSF INTL
FAX: (734) 769-0109
E-mail: info@nsf.org
Web: <http://www.nsf.org>

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American National Standard

**Equipment for Swimming Pools,
Spas, Hot Tubs and other
Recreational Water Facilities—**

Evaluation criteria for materials, components,
products, equipment and systems for use at
recreational water facilities

Standard Developer

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August 10, 2010

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Foreword²

The purpose of this Standard is to establish minimum materials, design and construction, and performance requirements for components, products, equipment and systems, related to public and residential recreational water facility operation.

If a value for measurement is followed by a value in other units in parenthesis, the second value may be only approximate. The first stated value is the requirement.

In this edition of NSF/ANSI 50 the following revisions were incorporated:

Issue 32 – DE Note

The purpose of this ballot was to remove an informational note about the use of hydrogen peroxide with DE filter/media. NSF/ANSI 50 contains an informational note in Section 11.1 regarding use of hydrogen peroxide with UV and DE (pre-coat type) filtration systems. The note first appeared in the 1985 version of NSF/ANSI 50. The note is not actionable, nor is it used in the testing or evaluation of products. There has been no submittal of technical substantiation or justification for this information note within this section of the standard. This issue was discussed during the 2005, 2006, 2007, 2008, and 2009 JC meetings to determine if evidence existed to support the note. This ballot removes the informational, non-actionable note.

Issue 55 – Section 12, 13, 16

The purpose of this ballot was to update the language relating to required levels of residual disinfectants for use with process equipment in section 12, 13, and 16. Levels of residual disinfectants are regulated by local jurisdictions, and the committee decided that it was inappropriate and unnecessary to include specific levels of specific residual disinfectants in this Standard, where they will never be read by any operator.

Issue 63 – Crypto, MS2 UV

The purpose of this ballot was to add a new requirement for UV Systems used to treat *Cryptosporidium parvum*. In 2009 NSF issued the NSF-ETV UV System test plan based upon the US EPA UV DGM, with fewer items open for interpretation. This ballot added criteria which enables test data from product evaluations for drinking water applications to be used in the evaluation of recreational water UV systems.

Issue 65 – Normative Reference and motor data plate

The purpose of this ballot was to make changes relating to normative references, motor data plate updates, and an editorial correction to the UV section (13).

Annex I (informational)

This annex was updated to provide guidance on sizing a chlorinator system. The new language was based on feedback received from the Joint Committee.

This Standard was developed by the NSF Joint Committee on Recreational Water Facilities using the consensus process described by the American National Standards Institute.

Suggestions for improvement of this Standard are welcome. Comments should be sent to Chair, Joint Committee on Recreational Water Facilities c/o NSF International, Standards Department, P.O. Box 130140, Ann Arbor, MI 48113-0140, USA.

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NSF/ANSI Standard

Equipment for Swimming Pools, Spas, Hot Tubs and other Recreational Water Facilities

Evaluation criteria for materials, components, products, equipment and systems for use at recreational water facilities

1 General

1.1 Scope

This Standard covers materials, components, products, equipment and systems, related to public and residential recreational water facility operation.

1.2 Variations in design and operation

A component varying in design and/or operation may qualify under this Standard. Appropriate tests and investigations shall indicate that the component performs as well as components conforming to this Standard. Such components shall meet the requirements for materials, finishes, and construction in this Standard.

1.3 Alternate materials

If specific materials are mentioned, other materials equally satisfactory from the standpoint of public health may be permitted.

1.4 Standard review

A complete review of this Standard shall be conducted at least every five years. These reviews shall be conducted by representatives from the industry, public health, and user groups, or agencies of the NSF Joint Committee on Swimming Pool Equipment.

1.5 Normative references

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