



**NSF International Standard /  
American National Standard /  
3-A SSI Standard**

# **NSF/ANSI/3-A SSI 14159-1 - 2014**

**Hygiene Requirements for the  
Design of Meat and Poultry  
Processing Equipment**





NSF International, an independent, not-for-profit, non-governmental organization, is dedicated to being the leading global provider of public health and safety-based risk management solutions while serving the interests of all stakeholders.



The 3-A Sanitary Standards, Inc. are a voluntary consensus standards development organization dedicated to protection of public health through development and promulgation of equipment standards applied to milk, milk products, and other comestibles. The tripartite 3-A Sanitary Standards, Inc. represent fabricators, users, and sanitarians.

*This Standard is subject to revision.  
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Users of this Standard may request clarifications and interpretations, or propose revisions by contacting:

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NSF/ANSI/3-A SSI 14159-1 – 2014

NSF International/  
American National/  
3-A SSI Standard  
for Food Processing Equipment

## **Hygiene requirements for the design of meat and poultry processing equipment**

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**NSF International**

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## Foreword<sup>2</sup>

The purpose of this Standard is to establish minimum hygienic design and construction requirements for meat and poultry processing equipment, excluding hand-held tools and mechanical belt conveyors.

This Standard and the accompanying text are intended for voluntary use by certifying organizations, regulatory agencies, users, and equipment manufacturers as a basis for providing assurances that adequate public health protection exists for products covered by the scope of this document.

This edition of the Standard contains the following revision:

Issue 4 - As required by ANSI, Standards must be reviewed at least every five years. In accordance with this requirement, the Joint Committee updated the normative references and boiler plate language.

NSF International and the 3-A Sanitary Standards, Inc. have collaborated to develop this American National Standard for food processing equipment. This Standard was developed by the NSF Joint Committee on Food Processing Equipment using the NSF consensus process as accredited by the American National Standards Institute. The Joint Committee membership includes a balanced representation of equipment manufacturers, food processors and producers, as well as federal, state, and local public health regulators who have food protection responsibility.

Suggestions for improvement of this Standard are welcome. This Standard is maintained on a Continuous Maintenance schedule and can be opened for comment at any time. Comments should be sent to Chair, Joint Committee on Food Processing Equipment at [standards@nsf.org](mailto:standards@nsf.org), or c/o NSF International, Standards Department, P.O. Box 130140, Ann Arbor, Michigan, 48113-0140, USA.

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<sup>2</sup> The information contained in this Foreword is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. As such, this Foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.

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### **NSF International<sup>3</sup>**

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### **3-A Sanitary Standards, Inc.**

The objectives of 3-A Sanitary Standards, Inc. (3-A SSI) is to formulate standards and accepted practices for equipment and systems used to process milk, milk products and other foods. These standards are developed through the cooperative efforts of local, state, and federal sanitarians, equipment manufacturers, and equipment users thereby gaining acceptability by those involved in the sanitary aspects of the dairy and other food industries. The ultimate goal is to protect dairy and food products from contamination and to ensure that all product contact surfaces can be mechanically cleaned or can be dismantled easily for manual cleaning, and when necessary, dismantled for inspection.

3-A SSI consists of representation from the International Association of Food Protection (IAFP), the United States Public Health Service/ United States Food and Drug Administration (USPHS/USFDA), the United States Department of Agriculture (USDA), the Food Processing Suppliers Association (FPSA), the International Dairy Foods Association (IDFA) and the European Hygienic Engineering and Design Group (EHEDG). The success of 3-A SSI is due to mutual cooperation and trust of manufacturers, users, and sanitarians in objectively meeting a need for specific hygienic standards and practices, which has resulted in the adoption of more than 85 voluntary Sanitary Standards and 3-A Accepted Practices. The value of this joint effort is evidenced in the effective application of these standards and practices within the dairy and food industries. 3-A SSI criteria are being used throughout North America and are gaining worldwide recognition through cooperative standards development with ISO and the International Dairy Federation.

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<sup>3</sup> The information contained in this section is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. As such, this section may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.

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## NSF/ANSI/3-A SSI Standard for Food Processing Equipment

# Hygiene requirements for the design of meat and poultry processing equipment

## 1 General

### 1.1 Purpose

This NSF/ANSI/3-A SSI Standard establishes minimum food protection and sanitation requirements for the materials, design, fabrication, and construction of meat and poultry processing equipment. This Standard does not contain operator safety requirements.

### 1.2 Scope

This NSF/ANSI/3-A SSI Standard applies to equipment intended for use in the slaughter, processing, and packaging of meat and poultry products, excluding hand held tools and mechanical belt conveyors. The requirements are to be applied by designers and manufacturers who in turn are to provide guidance to the users for the intended use of the equipment.

Excluded from this NSF/ANSI/3-A SSI Standard are requirements for the uncontrolled egress of microbiological agents from the equipment.

### 1.3 Measurement

Decimal and metric (SI) conversions provided parenthetically shall be considered equivalent. Metric conversions have been made according to IEEE/ASTM SI 10.

## 2 Normative references

The following documents contain provisions that, through reference, constitute provisions of this NSF/ANSI/3-A SSI Standard. At the time of publication, the editions indicated were valid. All referenced documents are subject to revision, and parties are encouraged to investigate the possibility of applying the most recent editions of the documents listed below.

3-A Accepted Practice, No. 604-05 – 2004, *Supplying air under pressure in contact with milk, milk products, and product contact surfaces*<sup>4</sup>

ANSI/ASME B46.1 - 2009, *Surface texture (surface roughness, waviness, and lay)*<sup>5</sup>

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<sup>4</sup> 3-A SSI, International Association of Food Industry Suppliers, 1451 Dolley Madison Boulevard, McLean, VA 22101-3850 <www.3-a.org>

<sup>5</sup> American Society of Mechanical Engineers (ASME), Three Park Avenue, New York, NY 10016-5990 <www.asme.org>