

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

NSF/ANSI/3-A 14159-2 - 2014

Hygiene Requirements for the Design of Hand Held Tools Used in Meat and Poultry Processing









NSF International, an independent, not-forprofit, 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.

This Standard is subject to revision.

Contact NSF to confirm this revision is current.

Users of this Standard may request clarifications and interpretations, or propose revisions by contacting:

Chair, Joint Committee on Food Processing Equipment c/o NSF International
789 North 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

NSF/ANSI/3-A SSI 14159-2 - 2014

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

Hygiene requirements for the design of hand held tools used in meat and poultry processing

Standard Developer

**NSF International** 

**NSF International** 

Designated as an ANSI Standard

December 22, 2014

American National Standards Institute

NSF/ANSI/3-A SSI 14159-2 - 2014

Recommended for Adoption by
The NSF Joint Committee on Food Processing Equipment
The NSF Council of Public Health Consultants

Adopted by NSF International May 2003

Revised January 2010 Revised December 2014

Published by

NSF International PO Box 130140, Ann Arbor, Michigan 48113-0140, USA

For ordering copies or for making inquiries with regard to this Standard, please reference the designation "NSF/ANSI/3-A SSI 14159-2-2014."

Copyright 2014 NSF International Previous editions © 2010, 2003

Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from NSF International.

Printed in the United States of America.

#### Disclaimers<sup>1</sup>

NSF, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. The opinions and findings of NSF represent its professional judgment. NSF shall not be responsible to anyone for the use of or reliance upon this Standard by anyone. NSF shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Standard.

NSF Standards provide basic criteria to promote sanitation and protection of the public health. Provisions for mechanical and electrical safety have not been included in this Standard because governmental agencies or other national standards-setting organizations provide safety requirement.

Participation in NSF Standards development activities by regulatory agency representatives (federal, local, state) shall not constitute their agency's endorsement of NSF or any of its Standards.

Preference is given to the use of performance criteria measurable by examination or testing in NSF Standards development when such performance criteria may reasonably be used in lieu of design, materials, or construction criteria.

The illustrations, if provided, are intended to assist in understanding their adjacent standard requirements. However, the illustrations may not include **all** requirements for a specific product or unit, nor do they show the only method of fabricating such arrangements. Such partial drawings shall not be used to justify improper or incomplete design and construction.

Unless otherwise referenced as *normative*, the annexes are not considered an integral part of NSF Standards. They are provided as general guidelines to the manufacturer, regulatory agency, user, or certifying organization.

<sup>&</sup>lt;sup>1</sup> The information contained in this Disclaimer 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 Disclaimer 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.

This nage is intentionally left blank	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	

This is a preview of "NSF/ANSI/3-A SSI 141...". Click here to purchase the full version from the ANSI store.

## Contents

1	1.1 Pur 1.2 Sco	lposeppe	.1 .1
2		ive references	
3	Definitio	ons	. 1
4		ls of constructionneral	
		duct contact surfacesn-product contact surfaces	
5		and construction	
	5.2 Nor	duct contact surfacesn-product contact surfaces	. 6
6		ion handbook, maintenance, and cleaning	
		ruction handbookintenance and cleaning	
Anı	nex A		۱٦
Anı	nex B		31
Anı	nex C		21
Anı	nex D		)1
Anı	nex E	E	Ξ1
Anı	nex F		=1

This nage is intentionally left blank	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	
This page is intentionally left blank.	

This is a preview of "NSF/ANSI/3-A SSI 141...". Click here to purchase the full version from the ANSI store.

### Foreword<sup>2</sup>

The purpose of this Standard is to establish minimum public health and sanitation requirements for hand held tools used in meat and poultry processing.

This edition of the Standard includes the following revision:

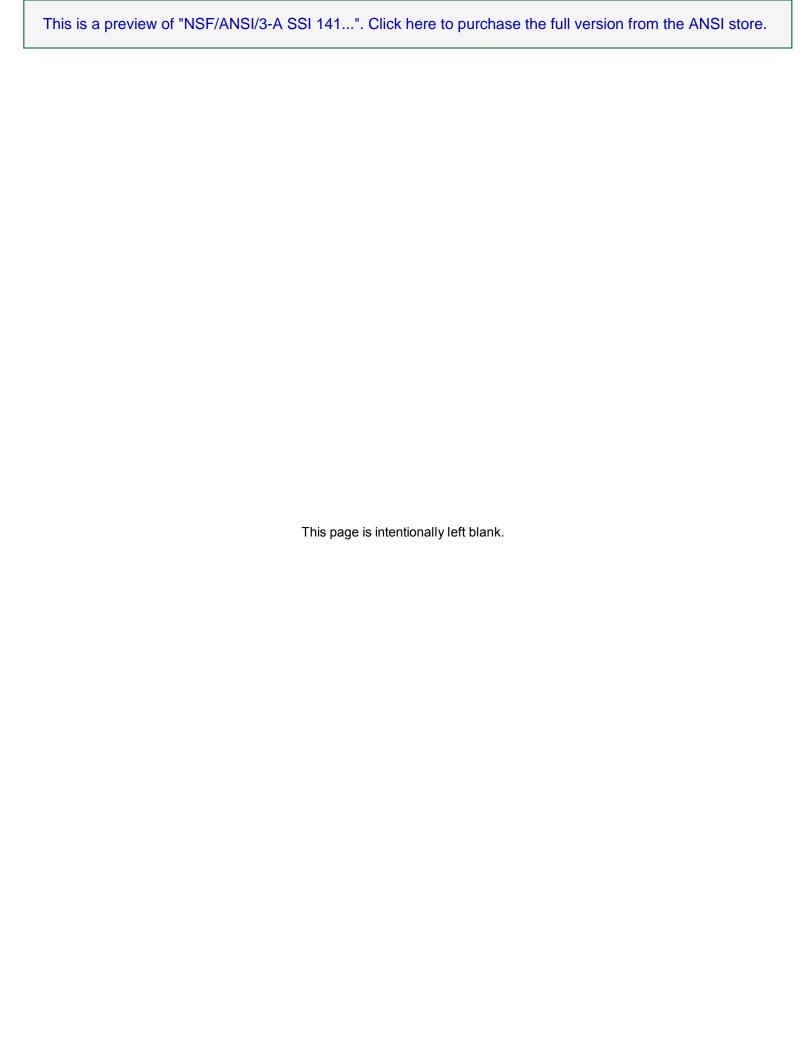
<u>Issue 5</u> - As required by ANSI, Standards must be reviewed at least every five years. In accordance with this requirement, the Joint Committee updated the normative references and the boiler plate language.

This Standard was developed by the NSF Joint Committee on Food Processing Equipment using the consensus process described by the American National Standards Institute.

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, or c/o NSF International, Standards Department, PO Box 130140, Ann Arbor, Michigan 48113-0140, USA.

-

<sup>&</sup>lt;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.



© 2015 NSF

NSF/ANSI/3-A SSI 14159-2 - 2014

# NSF/ANSI/3-A SSI Standard 14159-2 For Food Processing Equipment

# Hygiene requirements for the design of hand held tools used in meat and poultry processing

#### 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 hand held tools intended for use in the slaughter, processing, and packaging of meat and poultry products.

#### 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>3</sup>

ANSI/ASME B46.1 – 2009, Surface texture (surface roughness, waviness, and lay)<sup>4</sup>

Code of Federal Regulations, Title 21, (21 CFR) Parts 170-199, Food and Drugs<sup>5</sup>

Federal Food, Drug, and Cosmetic Act of 1938, as amended<sup>6</sup>

<sup>3</sup> 3-A, International Association of Food Industry Suppliers, 1451 Dolley Madison Boulevard, McLean, VA 22101-3850 <a href="https://www.3-a.org">www.3-a.org</a>

<sup>&</sup>lt;sup>4</sup> American Society of Mechanical Engineers (ASME), Three Park Avenue, New York, NY 10016-5990 <www.asme.org>

<sup>&</sup>lt;sup>5</sup> U.S. Government Printing Office, Washington, DC 20402 <www.gpo.gov>

<sup>&</sup>lt;sup>6</sup> Superintendent of Documents, U.S. Government Printing Office, Mailstop SSOP, Washington, DC 20402-0001 <a href="https://www.gpo.gov">www.gpo.gov</a>