



General Requirements Update

The New 3-A Sanitary Standards
General Requirements

Streamlining & Modernizing the 3-A Program

Lyle W. Clem – Chair
3-A Steering Committee



Overview

- 3-A SSI is an ANSI accredited Standards Developer Organization.
- 3-A maintains over 80 Equipment Standards and Accepted Practices.
- A Strategy was needed to leverage the critical resources of the stakeholder participants who form the base of 3-A.
- 3-A SSI is also focused on expanding hygienic knowledge into new applications.



Work Group 14

- WG14 was formed to organize the 3-A General Requirements document
- A companion document was also created to provide guidance for creating new Standards
- Both documents are the result of development and consensus building among 3-A stakeholders.



WG 14 Leadership

- The WG14 General Requirements effort was led by Gabe Miller and Helen Piotter.
- The WG14 Guidance Document was led by Bryan Downer



The Development Effort

- Collective efforts represent several thousand hours of meetings and calls.
- Some calls included over 50 participants.
- Discussions, topic research, document and text reviews, and ad hoc committees all led to building consensus.



Gen. Reqmts. Architecture

- Follows the structure of all 3-A Standards.
- Scope, Normative References, Definitions, Materials Reqmts, Fabrication Criteria for Product Contact and Nonproduct Contact Surfaces.
- Supporting Appendices, i.e. CIP Cleaning, SS Materials & EHEDG Harmonization.



Architecture cont.

- Now includes all 3-A Standards and Accepted Practices as Normative References.
- 34 External Normative Reference Documents are included (examples PMO, Specific CFR's, ASTM docs, etc.)
- 51 Defined Terms are included.



Materials Criteria

- Expanded sections for metallic alloys.
- Defining acceptance criteria for Non-Metals
- Rubber and Plastics now include multiple methods for inclusion. i.e. FCN, specific CFR references, GRAS, Threshold of Regulations (TOR) exemption, Letter of No Objection, by present test methods in Standards 18 and 20, or by a prior sanction letter,



Materials Criteria cont.

- Coatings and application methods
- Lubricants used in supporting fabrication methods
- Adhesives by CFR References



Fabrication Criteria

- Welding and joining methods defined per AWS and EHEDG Guidelines.
- Defining Soldering and Brazing Techniques
- Define acceptable Coating performance
- Define Bonding performance
- Define Powdered Metal usages



Fabrication Criteria cont.

- Define Surface Treatments (mech. polishing, electropolishing, ion implantation, etc.)
- Define Nonpermanent joining methods and criteria
- Cleaning and Inspectability Sections for general performance and baseline conformities



Additional Fabrication Reqmts.

- Draining
- Defining Dead Ends
- Criteria for Gaskets, O-rings and Seals
- Baseline Radius Criteria
- Criteria for Exposed and Enclosed Threads
- Defining Acceptable Perforated Surfaces
- Defining Coil Springs and Design Details
- Define Criteria for Openings and covers

Summary



- The 3-A Program anticipates the General Requirements will find acceptance by a global marketplace.
- Standards maintenance is simplified
- Knowledge base experience is leveraged.
- New Standards Projects will benefit through time savings by referencing the General Requirements.

More information

The Symbol
of Assurance



- www.3-A.org
- <http://www.3-a.org/Standards/pdf/wg14generalstandards.pdf>
- <http://www.3-a.org/News/PressRelease.php?ReleaseID=1217&Title=3-A-SSI-Invites-Participation-in-Development-of-New-Food-Processing-Equipment-Design-Standard>