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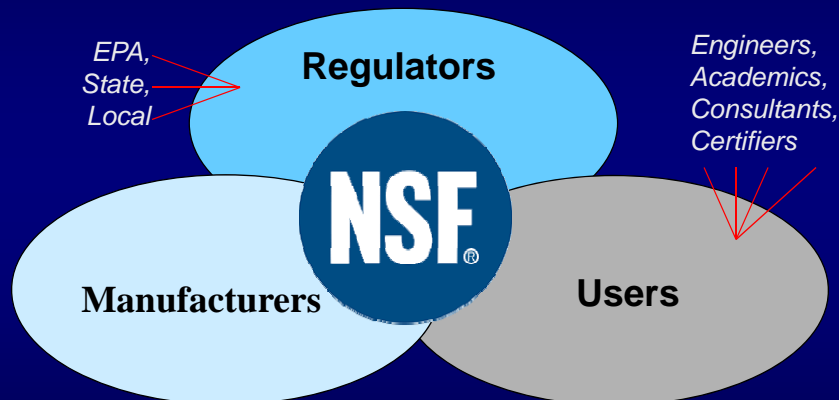
The NSF Wastewater Program: Standards Update

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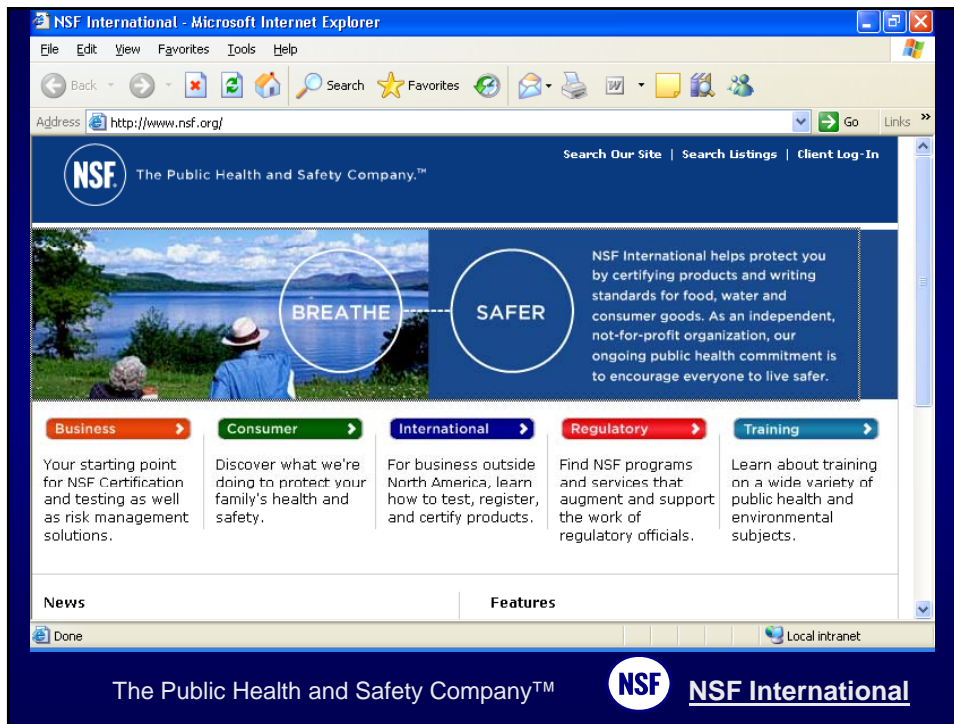
Consensus Standards: Key to Success – Stakeholder Involvement



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Home - NSF International - Microsoft Internet Explorer

Address: http://standards.nsf.org/home

NSF Live safer.™

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Home

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Welcome to the new online home of NSF balloting. Here you can view ballot materials for each committee and task group that works on NSF's standards and policies. Ballot materials include draft language up for approval; memos and other communication from NSF and among committee members; and other supporting documents relevant to the balloting process.

Please note that ballots and related documents are part of the NSF standards development process and are for NSF Committee use only. They shall not be reproduced, circulated, or quoted, in whole or in part, outside NSF activities except with the approval of NSF.

This site also gives you access to each group's shared calendars; shared email archives; action items; and a list of its associated task groups, as well as contact information for the group chair. If you'd like to contact NSF about anything you find (or can't find) on this page, click "Web Support" to the left. For a Help file on how to use this site, click the life preserver logo on any screen.

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Groups Upcoming Events - NSF International - Microsoft Internet Explorer

Address: http://standards.nsf.org/apps/group_public/calendar.php?month=2&year=2008#full_calendar

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February 2008 - US/Eastern Time

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|----------------------|------------------------------------|-------------------------------------|--|-------------------------------------|----------|
| | | | | | 01 2pm - Confere 2pm - DWA Le | 02 |
| 03 | 04 | 05 | 06 | 07 3pm - WWVT - C 4pm - Textiles | 08 | 09 |
| 10 | 11 | 12 | 13 3pm - Global In | 14 3pm - WWVT Ac 4pm - Textilec | 15 10am - FE Test | 16 |
| 17 | 18 4pm - Textiles | 19 11am - DWTU 1pm - BIFMA V | 20 2pm - DWA Le 3:30pm - WWVT | 21 10am - SPE Su | 22 | 23 |

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Joint Committee on Wastewater Treatment Units - NSF International - Microsoft Internet Explorer

Address: http://standards.nsf.org/apps/group_public/workgroup.php?wg_abbrev=wwt_jc

Joint Committee on Wastewater Treatment Units

Group Description
 No Description
 Sarah Kozanecki, Secretariat
 Michael Hoover, Joint Committee Chair

Upcoming Shared Events [View All](#)
 No publicly visible events found.


Recent Shared Documents [View All](#)
 No publicly visible documents found.

Recent Email [View All](#)
 No publicly visible messages found.

Open Shared Ballots [View All](#)
 No open ballots found.

Subgroups

- Service/Maintenance (not ac
- Tanks (not active)
- UV devices (not active)
- WWT Task Group on Acces
- WWT Task Group on Chlorir
- WWT Task Group on Comp
- WWT Task Group on Effluen

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WWT Task Group on Access Ports Public Documents - NSF International - Microsoft Internet Explorer

Address: http://standards.nsf.org/apps/group_public/documents.php?wg_abbrev=access_ports

Home > **All Groups**

Public Documents



Group Home Calendar Documents Ballots Email


WWT Task Group on Access Ports Public Documents 

Number of Documents Show last documents per workgroup

Document Descriptions Show document descriptions

WWT Task Group on Access Ports (Showing 2 of 2)

| Document Name | # | Size | State | Submitter | Date | Action |
|---|---|------|-------|------------------|------------|-------------------------|
|  40i19r4 | 1 | 58K | Draft | Kozanecki, Sarah | 2008-01-29 | Details |
|  40i19r2 | 0 | 54K | Draft | Kozanecki, Sarah | 2007-11-30 | Details |

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NSF/ANSI Wastewater Standards

- ☀ **Standard 40:** Residential Wastewater Treatment Systems
- ☀ **Standard 41:** Non-Liquid Saturated Treatment Systems
- ☀ **Standard 46:** Evaluation of Components and Devices Used in Wastewater Treatment Systems
- ☀ **Standard 245:** Wastewater treatment systems – Nitrogen reduction

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NSF/ANSI Standards 41 and 46

- ☀ **Standard 41**
 - compost toilets
- ☀ **Standard 46: Components**
 - Grinder pumps
 - Septic tank effluent filters
 - Chlorine disinfection devices
 - UV disinfection devices

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NSF/ANSI Standard 40 and 245

- ☀ **Scope 40:** Any residential system with a treatment capacity of 400-1500 gpd; CBOD₅ and TSS reduction.
- ☀ **Scope 245:** Any residential system with a treatment capacity of 400-1500 gpd; Nitrogen reduction.
 - Must also meet the requirements of Standard 40 Class I effluent.

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New Standards Activity

- ☀ **Recent changes to existing standards:**
 - Addition of bottomless systems (40 & 245)
 - Added primarily for peat systems
 - Testing with closed bottom if available
 - Septic tank effluent filter bead size (46)
 - From 3/16 to two options; 1/8 and 1/16
 - Chlorine disinfection minimum gpd (46)
 - From 400 gpd down to 200 gpd

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New Standards Activity

- ☀ Proposed changes to existing standards:
 - Addition of open top systems (40 & 245)
 - Include impermeable membrane to prevent precipitation intrusion
 - Septic tank effluent filters (46)
 - New challenge to be more representative of septic tank effluent waste solids
 - Chlorine disinfection (46)
 - Changes to temperature and ammonia to account for chlorine demand
 - Access ports (40, 245, 41 and 46)

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New Standards Activity

- ☀ **New draft standard: Gravelless trench products (NSF 240)**
 - Alternatives to traditional stone/gravel
 - One year test; comparison to stone/gravel trench performance; hydraulic failure (ponding)
 - Five replicates of each
 - Same size trench; loading of control at 1.48 gal/ft²/day; test units adjusted to match reduction claim

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New Standards Activity

☀ Field performance

- Same systems as covered under 40/245
- Field evaluation of 20 systems minimum
 - North/South geography
 - Operating for 6 months, current maintenance contract
 - Grab vs. composite sampling (?)
 - Data only; no pass/fail criteria (?)
 - Who collects them, who analyzes them?
- Not a new concept, but there is no national approach currently.

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New Standards Activity

☀ Onsite Wastewater Treatment tanks; Quality Control Assurance Process

- All tank materials
- On-lot evaluation
 - Water tightness testing
 - Audit of manufacturing process

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New Standards Activity

☀ Recycle/Reuse

- Increasing need as potable water becomes a more precious resource.
- Some of this already exists – spray irrigation in Texas and elsewhere.
- What are the possibilities, and what standards are needed to show proper treatment.
- Variable influents and variable effluents.

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New Standards Activity

☀ Recycle/Reuse; source waters

- Rainfall
- Storm runoff
- Cooling water/condensate
- Graywater
- Blackwater
- Treated wastewater

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New Standards Activity

☀ Water Quality Associated with Reuse Risks

| Risk Category | Fecal Coliform cfu/100 mL | BOD ₅ (mg/L) | TSS (mg/L) | Total N (mg/L as N) | Turbidity (NTU) |
|----------------|---------------------------|-------------------------|------------|---------------------|-----------------|
| Very low | < 100,000 | < 30 | < 30 | NR | NR |
| Low | < 200 | 5 – 30 | 5 – 30 | NR | NR |
| Moderate | 2.2 – 100 | 5 – 30 | 5 – 30 | NR | NR |
| High | ND | 5 – 10 | 5 – 10 | 10 | 2 – 10 |
| Drinking water | TBD | TBD | TBD | TBD | TBD |

NR – Not required
ND – Non detect

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Get Involved!

- ☀ Standards impact your business – know what is happening, and even better, get involved with their development.
- ☀ The process is open if you want to contribute.
- ☀ At a minimum, monitor what is on the horizon to know the direction standards are moving.
- ☀ Your best resource:

<http://standards.nsf.org/home>

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Contact Information

- Tom Bruursema
General Manager
(734) 769-5575
bruursema@nsf.org
- Sharon Steiner
Business Unit Manager
(734) 827-6846
steiner@nsf.org
- Paul Jackson
Program Manager
(813) 907-2590
prjackson@nsf.org
- NSF Web Site:
www.nsf.org
- Toll free 800-673-6275

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