

## Plumbing and POWTS Winter 2003-4 Education Classes

**Code Update I** - 3 credit hours - Explaining the code revisions to Comm 81, 82 & 84 that became effective on May 1, 2003. How can your business benefit by knowing the revisions? Approved for MP, JP, MPRA, JPRA, MPRS, JPRS, UDC Plumbing Inspector. 8:30 - 11:30 a.m. Course #5894

**Code Update II** - NEW! - 3 credit hours - "Plumbing Bloopers" - a slide show of drain and vent installation errors. Talk with the state staff about issues you've encountered. Also, ADA requirements for bathrooms. The latest information on accessibility requirements. 12:30 - 3:30 p.m. Approved for MP, JP, UDC Plumbing Inspector. Course #5895

**POWTS Trade I** - Spring Rerun - 3 credit hours - Introduction to storm water, water service sizing, POWTS electrical, plumbing products update, and component manual trivia. Approved for MP, JP, MPRS, JPRS, POWTS Inspector, CST, POWTS Maintainer. 8:30 - 11:30 a.m. Course #5281.

**POWTS Trade II** - Spring Rerun - 3 credit hours - Reporting and recording soil and site conditions. Approved for MP, JP, MPRS, JPRS, POWTS Inspector, CST, POWTS Maintainer. 12:30 - 3:30 p.m. Course #5282.

**POWTS Trade III** - NEW! - 3 credit hours - POWTS product update and use, and POWTS electrical requirements. Approved for MP, JP, MPRS, JPRS, POWTS Inspector, CST, POWTS Maintainer. 8:30 - 11:30 a.m. Course #5885

**POWTS Trade IV** - NEW! - 3 credit hours - System freeze-up problems, pressure distribution design, and small system drip dispersal theory, operation, and design. Approved for MP, JP, MPRS, JPRS, POWTS Inspector, CST, POWTS Maintainer. 12:30 - 3:30 p.m. Course # 5886

**Cross Connection Control** - 3 credit hours - Learn about new requirements for registration of cross connection control assemblies and how to recognize an approved device or assembly. Refresh your knowledge on assigning the correct cross connection device, assembly, or method for various situations. 6 - 9 p.m. Approved for JP, MP, JPRA, MPRA, UDC Plumbing Inspector. Course #5897.

**POWTS Inspector III** - NEW! - 3 credit hours - Code update, products, POWTS electrical, and more! Approved for JP, MP, JPRS, MPRS, POWTS Inspector, CST, POWTS Maintainer. 8:30 - 11:30 a.m. Course #5887.

**POWTS Inspector IV** - NEW! - 3 credit hours - Back-to-basics for POWTS inspectors. Approved for JP, MP, JPRS, MPRS, POWTS Inspector, CST, POWTS Maintainer. 12:30 - 3:30 p.m. Course #5888.

**Water Reuse** - 3 credit hours - Reuse of storm water and wastewater is a recent option for plumbing systems. Learn about the requirements and opportunities for reuse in Wisconsin. 6 - 9 p.m. Approved for MP, JP, UDC Plumbing Inspector, MPRS, JPRS, POWTS Inspector, MPRA, JPRA and POWTS Maintainer. Course #5902.

**Restricted Service** - NEW! - 3 credit hours - Examination preparation or refresher. Products, tank sizing, component manuals, pressure distribution, conventional, mound, and at-grade design. Approved for MP, JP, MPRS, JPRS, POWTS Inspector, CST, POWTS Maintainer. 6 - 9 p.m. Course #5884.

**Restricted Appliance** - NEW! - 6 credit hours - Examination preparation or refresher. A review of water sizing, products, water treatment theory, and appliance and water treatment device installation, including cross connection control, and more! 8:30 a.m. - 3:30 p.m. Approved for MP, JP, MPRA, JPRA, UDC Plumbing Inspector. Course #5899.

**UDC Plumbing Inspector** - NEW! - 6 credit hours - This could be an examination preparation course or a refresher for currently-licensed individuals. Review of drain and vent systems, cross connection control, plumbing products, and water supply systems. 8:30 a.m. - 3:30 p.m. Approved for MP, JP, UDC Plumbing Inspector. Course #5900.

**Multipurpose Piping Systems (MPP)** - Review or introduction to Comm 82 and NFPA 13-D in reference to sizing MPP systems. Appropriate choice of materials and the effect of material choices on system performance. 6 - 8 p.m. first day and 8:30 a.m. - 3:30 p.m. second day. Approved for 12 credit hours MP, JP, MPRA, JPRA, 9 credit hours UDC Plumbing Inspector. Course #5896.

**Utility Contractor** - NEW! - 3 credit hours - Learn or review the code compliant design of water services and building sewers including choice of materials, water supply and building sewer sizing, and installation, including storm. 6 - 9 p.m. Approved for MP, JP, MPRS, JPRS, UDC Plumbing Inspector. Course #5898.

**Storm** - 12 credit hours or 6 hours for one day - New storm requirements for DNR that will take effect on October 1, 2004 make this course the choice for plumbing contractors interested in learning how plumbing systems design can be used to comply with storm water management plans. Plumbing requirements for the installation of storm water piping and treatment devices. Infiltration and detention system design. 8:30 a.m. - 3:30 p.m. on consecutive days. Approved for MP, JP, MPRS, JPRS, CST, UDC Plumbing Inspector. Day 1 Course #5915. Day 2 course #5916

**MP/JP Exam Prep** - Taking an exam or need a code refresher? S&B staff can guide you through the code. Review of drains vents, CCC, water, fixture connections, interceptors, cleanouts, storm, POWTS products. Includes sample exam. 8:30 a.m. - 3:30 p.m. both days. Course #5913 Day 1 MP, JP UDC-PI 6 hours. Course #5914 Day 2, MP, JP 6 hours, UDC-PI 3 hours. Two days obtains 12 hours for MP, JP. Two days obtains 9 hours for UDC-PI.

More info on next page!



Registration Registration Registration Registration Registration Registration

Put an "X" in front of the courses you wish to attend.

**Eau Claire**, Atrium Inn/Best Western, 2851 Hendrickson Drive, 715-835-2242

- 12/2/03 a.m.-Code Update I-\$40-#5894
- 12/2/03 p.m.-Code Update II-\$40-#5895
- 12/2/03 a.m.-POWTS Trade I-\$40-#5281
- 12/2/03 p.m.-POWTS Trade II-\$40-#5282
- 1/20/04-Cross Connection Control-\$40-#5897
- 1/21/04-Storm Day 1-\$80-#5915
- 1/22/04-Storm Day 2-\$80- #5916
- 2/3/04 a.m.-POWTS Inspector III-\$40-#5887
- 2/3/04 p.m.-POWTS Inspector IV-\$40-#5888
- 2/4/04-Day 1 MP, JP Exam Prep-\$80-# 5913
- 2/5/04-Day 2 MP, JP Exam Prep-\$80-# 5914
- 3/3/04-Restricted Service-\$40-#5884
- 4/6/04-UDC Plumbing Inspection-\$80-#5900

**Mineral Point**, Comfort Inn, 1345 Business Park Road, 608-987-4747

- 1/27/04 a.m.-Code Update I-\$40-#5894
- 1/27/04 p.m.-Code Update II-\$40-#5895
- 1/27/04 a.m.-POWTS Trade III-\$40 #5885
- 1/27/04 p.m.-POWTS Trade IV-\$40-#5886
- 2/17/04 a.m.-POWTS Inspector III-\$40-#5887
- 2/17/04 p.m.-POWTS Inspector IV-\$40-#5888
- 3/30/04-Cross Connection Control-\$40-#5897

**West Bend**, West Bend Inn, 2520 West Washington Street, 262-338-0636

- 1/13/04 a.m.-Code Update I-\$40-#5894
- 1/13/04 p.m.-Code Update II-\$40-#5895
- 1/13/04 a.m.-POWTS Trade III-\$40-#5885
- 1/13/04 p.m.-POWTS Trade IV-\$40-#5886

**Green Bay**, Ramada Plaza, 2750 Ramada Way, 920-499-0631

- 12/11/03 a.m.-Code Update I-\$40- #5894
- 12/11/03 p.m.-Code Update II-\$40-#5895
- 12/11/03 a.m.-POWTS Trade I-\$40-#5281
- 12/11/03 p.m.-POWTS Trade II-\$40-#5282
- 1/6/04-Cross Connection Control-\$40-#5897
- 1/7/04-Storm Day 1-\$80-#5915
- 1/8/04-Storm Day 2-\$80-#5916
- 2/10/04 a.m.-POWTS Inspector III-\$40-#5887
- 2/10/04 p.m.-POWTS Inspector IV-\$40-#5888
- 2/11/04-Day 1 MP, JP Exam Prep-\$80-#5913
- 2/12/04-Day 2 MP, JP Exam Prep-\$80-#5914
- 3/9/04-Restricted Service-\$40-#5884
- 3/10/04-Restricted Appliance-\$80- #5899
- 4/8/04-UDC Plumbing Inspection-\$80-#5900

Pre-registration required. No walk-ins! Arrive 30 minutes early to check in. No confirmation letters will be sent. Limited seating. Lists of people registered for the classes will be on the S&B WebSite beginning Nov. 1, <http://www.commerce.state.wi.us/SB/SB-DivContinuingEducation.html>. Keep a copy of the registration so you know for where and when you're signed up.

Name \_\_\_\_\_

S&B Customer ID Number \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Daytime Telephone: \_\_\_\_\_ Total Cost \$ \_\_\_\_\_

100-143-SBDV-323R-SG72-7630 Mail this registration form and check to: Safety and Buildings, Roberta Ward, PO Box 2689, Madison, WI 53701-2689



Registration Registration Registration Registration Registration Registration

Put an "X" in front of the courses you wish to attend.

**Wausau**, Plaza Hotel & Suites, 201 North 17th Avenue, 715-845-5773

- 1/15/04 a.m.-Code Update I-\$40-#5894
- 1/15/04 p.m.-Code Update II-\$40-#5895
- 1/15/04 a.m.-POWTS Trade III-\$40-#5885
- 1/15/04 p.m.-POWTS Trade IV-\$40-#5886
- 2/17/04-Water Reuse-\$40-#5902
- 2/11, 2/12/04-MPP (eve + next day)-\$130-#5896
- 4/1/04-Cross Connection Control-\$40 -#5897
- 4/13/04-Utility Contractor-\$40-#5898
- 4/14/04-UDC Plumbing Inspection-\$80-#5900

**Fond du Lac**, Holiday Inn, 625 West Rolling Meadows Drive, 920-923-1440

- 1/6/04 a.m.-Code Update I-\$40-#5894
- 1/6/04 p.m.-Code Update II-\$40-#5895

**Waukesha**, Quality Inn, 2417 Bluemound Road, 262-786-0460

- 12/3/03 a.m.-Code Update I-\$40-#5894
- 12/3/03 p.m.-Code Update II-\$40-#5895
- 12/4/03 a.m.-POWTS Trade I-\$40-#5281
- 12/4/03 p.m.-POWTS Trade II-\$40-#5282
- 1/14/04 Storm - Day 1-\$80-#5915
- 1/15/04 Storm - Day 2-\$80-#5916
- 2/19/04 a.m. POWTS Inspector III-\$40-#5887
- 2/19/04 p.m. POWTS Inspector IV-\$40-#5888
- 2/24/04 Water Reuse-\$40-#5902
- 2/4, 2/5/04 MPP (eve + next day)-\$130-#5896
- 3/23/04 Restricted Service-\$40-#5884
- 3/24/04 Restricted Appliance-\$80-#5899
- 4/21/04 Utility Contractor-\$40-#5898
- 4/22/04 UDC Plumbing Inspection-\$80-#5900

**Hayward**, Country Inn & Suites, 10290 Highway 27S, 715-634-4100

- 1/13/04 a.m.-Code Update I-\$40-#5894
- 1/13/04 p.m.-Code Update II-\$40-#5895
- 1/13/04 a.m.-POWTS Trade III-\$40-#5885
- 1/13/04 p.m.-POWTS Trade IV-\$40-#5886

**Wisconsin Dells**, Wintergreen, 60 Gasser Road, 800-648-4765

- 1/28/04 a.m.-Code Update I-\$40-#5894
- 1/28/04 p.m.-Code Update II-\$40-#5895
- 1/28/04 a.m.-POWTS Trade III-\$40-#5885
- 1/28/04 p.m.-POWTS Trade IV-\$40-#5886

Pre-registration required. No walk-ins! Arrive 30 minutes early to check in. No confirmation letters will be sent. Limited seating. Lists of people registered for the classes will be on the S&B WebSite beginning Nov. 1, <http://www.commerce.state.wi.us/SB/SB-DivContinuingEducation.html>. Keep a copy of the registration so you know for where and when you're signed up.

Name \_\_\_\_\_

S&B Customer ID Number \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Daytime Telephone: \_\_\_\_\_ Total Cost \$ \_\_\_\_\_

100-143-SBDV-323R-SG72-7630 Mail this registration form and check to: Safety and Buildings, Roberta Ward, PO Box 2689, Madison, WI 53701-2689



**WISCONSIN ONSITE WASTEWATER RECYCLING ASSOCIATION  
ANNUAL CONFERENCE & TRADE SHOW  
FEBRUARY 20-21, 2004  
COUNTRY INN HOTEL & CONFERENCE CENTER  
WAUKESHA, WI**



**5 C.E.U.s** Friday, February 20, 2004  
**3.5 C.E.U.s** Saturday, February 21, 2004

for

Journeyman Plumber License  
Journeyman Plumber-Restricted Service License  
Master Plumber License  
Master Plumber-Restricted Service License  
POWTS Inspector Certification  
POWTS MAINTAINER Registration  
Plumber-Journeyman License  
Plumber-Journeyman Restricted Service License  
Plumber-Master License  
Plumber-Master Restricted Service License  
Soil Tester Certification

**TOPICS**

*DOT Commercial Driver's License Standards, Controlled Substances and Alcohol Use and Testing, Enforcement Penalties*

*DNR Permitting of Large POWTS*

*Highground POWTS and Water Re-Use Project*

*Standards for Inspecting Existing POWTS*

*Update on National Performance Code*

*Update on Legislation Relating to the Industry*

*Update on National Model Code*

*Do Aeration Systems Meet the Performance Standards Set by the Wisconsin State Code?*

*Soil Performance for Model Code Development*

*30+ Exhibits of the Latest Technologies*

**Call: WOWRA at 1-800-377-6672** for more information

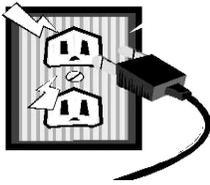
Conference pre-registration rates available until **February 6, 2004**, then registration rates at the door.

Hotel: room rates \$99. Block of rooms is available until January 20, 2004. Our block number is **WOSWW**.

Call 262-547-0201 or 1-800-247-6640 for hotel reservations

# Electrical Q&A

Based on the 2002 National Electrical Code. For info, contact one of the S&B Consultants listed below.



**Question:** A new industrial plant has a ground ring installed around the entire metal building. The metal structure is bonded along this ring. Feeders in this building

are being routed in a cable tray, which is being used as an equipment- grounding conductor. Panelboards are surface-mounted with direct contact with metal structural columns. Is it a violation of the code to bring a grounding conductor from the cable tray to each panel and in addition, bond the panel to the metal structure?  
**Answer:** No. The installation goes beyond the requirements of the NEC, assuming that the cable tray is approved for grounding and meets the requirements of Section 392.7. It appears that someone wants everything at the same potential and is accomplishing it through supplemental grounding.

**Question:** How come I can't use liquidtight flexible metal conduit anymore in ceilings that are "Other Space Used for Environmental Air?"  
**Answer:** 300.22(C)(1) of the 2002 NEC deleted the exception that allowed this type of installation. The outer jacket of the raceway did not meet fire and smoke load specification as a low-smoke wiring method. Section 300-22(c)(1) Exception in the 1999 NEC permitted the use of LFMC in lengths of six feet or less and there was no limit as to the number of lengths, only that individually they would be less than six feet. The concern prompting the change was that numerous drops could add to the fire and smoke load.

## Electrical Consultants

Monte Ewing .... Madison ..... 608-225-3416  
Tom Garvey ..... Milwaukee ..... 414-852-3696  
Raymond Weber Wis. Rapids ..... 715-571-1609

**Watch the *WCCR* for numerous Jan-April electrical education courses or watch the Web, <http://www.commerce.state.wi.us/SB/SB-DivContinuingEducation.html>**

# More exams offered at 2004 Madison site

Beginning in January, 2004, all types of exams will again be offered at the Safety and Building Division Madison exam site. In 2003, only Soil Tester exams were available at the Madison site. Soil Tester exams, which use special materials, in 2004 will be at the Madison and Wausau sites, not at the Pewaukee or Black River Falls sites.

Also, the Madison exam site, which has been the Thompson Commerce Building, in January will move to the Crown Plaza hotel, 4402 East Washington Avenue, just off I90-94, across from East Towne Mall.

To view the 2004 exam schedule, visit the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-CredentialExams.html>. Paper copies are available from Todd Taylor, 608-267-3606, [ttaylor@commerce.state.wi.us](mailto:ttaylor@commerce.state.wi.us).



If you don't want to travel to find continued education credits, you can take classes right from your home. Either online or correspondence.

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Email: [ssc@schmittsafety.com](mailto:ssc@schmittsafety.com)  
Phone 920-901-6000, Fax 920-682-8311

# Plumbing form changes and POWTS form changes

Due to the numerous code changes effective in May 2003, the Plumbing Plan Approval Application form (SBD-6154) has been revised.

An example of the changes is that the form is now used for registration of cross connection control assemblies. Not all assemblies need plan review and approval prior to installation. Most (the ones **not** located in health care and related facilities) only need to be registered. Instead of developing a separate registration form, the one form can be used for both plan review submittals and registration of the assemblies.

Another example is the addition of several new submittal items to the form: subsurface storm/clear water dispersal systems in connection with public buildings, and plumbing reuse water treatment systems (other than POWTS).

The form is available on the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-DivForms.html> or can be obtained from the S&B offices listed on page 10 of this *WCCR*.

Questions about the new form? Contact a plumbing plan reviewer listed on page 10.

The Safety and Buildings Division has a newly revised Private Onsite Wastewater Treatment plan review application form, SBD-10577.

The changes are intended to simplify form and the calculation of fees, as well as provide important reminders when submitting individual site designs.

An example of the changes is Box 3, where the number of customer boxes has been reduced from four to two. Customer 1 is for entering designer information. The designer is the person with the legal authority to produce and take responsibility for the design (i.e. master plumber, registered designer, etc.). The information for Customer 2 is to be completed when the plans must be returned to a person other than Customer 1. This can happen when a registered designer prepares the plans and then requests the plans be returned to the person who will be installing the system.

Box 5 on page 2 has the most significant changes. The type of submittal, system types, and component manuals used for the design are on the left-hand side of the form. The fees for each section are found to the right of each category. In the first row, check whether the plan is a revision, new plan, or a replacement system. Please note that the \$60 fee applies to Plan Revisions and that other fees are shown lower on the page.

Questions? You can contact Brad Johnson, POWTS Section Chief, 920-492-5605, [bjohnson@commerce.state.wi.us](mailto:bjohnson@commerce.state.wi.us).

If you have a S&B credential, take your card out and look at it. When's your renewal? Don't lose track and lose your opportunity to work. S&B Credential Unit, 608-261-8500, [madisoncred@commerce.state.wi.us](mailto:madisoncred@commerce.state.wi.us)

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## Wisconsin Commercial Building Code Certification Training

Classes held for 15 weeks from 9:30 a.m. until 3:30 p.m. Lunch breaks will be from noon until 1 p.m. Lunch will not be provided. Fees noted on registration form.

Registration forms on the WebSite, <http://www.commerce.state.wi.us/SB/SB-DivContinuingEducation.html>, or call Henry Kosarzycki, 262-548-8615

### 2004 Milwaukee Winter Session Tuesdays, Jan. 6 thru April 13

*Classes will be at the City of Milwaukee Neighborhood Services Bldg, 4001 South 6th Street*

### Northeast Winter Session, Wednesdays Jan. 7 thru April 21, 2004.

*The class will be at the Shawano County Courthouse.*



## Two Resignations

Two Safety and Buildings Division staff members resigned in November.

Dan Graham served as Elevators and Electrical Program section chief and previously had been bureau director of the Bureau of Field Operations, before it was merged with the Bureau of Integrated Services. Dan Meneguín, 608-266-0056, [dmeneguín@commerce.state.wi.us](mailto:dmeneguín@commerce.state.wi.us), is now section chief for the Electrical and Elevators Programs.

Eric Hands was the program manager for the Public Sector Safety, Mine Safety, and Amusement Rides Programs. His duties are now assigned to Joe Hertel, 608-266-5649, [jhertel@commerce.state.wi.us](mailto:jhertel@commerce.state.wi.us).

### Pages for individual S&B programs on the WebSite

<http://www.commerce.state.wi.us/SB/SB-HomePage.html>

### Contact information for plan review

#### To schedule an appointment (commercial/multifamily buildings, pools, or plumbing):

- Fax: 24-hour toll-free number for appointment scheduling, 877-840-9172
- Email: [planschedule@commerce.state.wi.us](mailto:planschedule@commerce.state.wi.us)
- S&B WebSite (buildings only): <http://www.commerce.state.wi.us/SB/SB-DivScheduling.html>

#### For application forms:

- On the S&B WebSite (choose "Get Forms," <http://www.commerce.state.wi.us/SB/SB-DivForms.html>)
- Call any of the offices listed on page 10

#### Info about next available review appointment:

<http://www.commerce.state.wi.us/SB/SB-DivDailyDoc.html>

#### Info about status of plan review:

<http://www.commerce.state.wi.us/SB/SB-DivReviewStatusSearch.html>

## Commercial Buildings Q&A on the WebSite

Q&A's on the Wisconsin Commercial Buildings Code sections noted below have recently been added to <http://www.commerce.state.wi.us/SB/SB-CommercialBuildingsCodeAdoptionQuestions.html>.

- Comm 61.03(10), Change of Use
- Comm 62.0202(1)(a) and Comm 62.1403(1) Air Retarder/Air Barrier
- IBC 1003.2.2 Occupant Load
- IBC 2902.1 Washing Arrangements

### Delegated Agents

Some municipalities in Wisconsin have authority to do building or fire protection plan review, inspections, and otherwise carry out code-related functions as delegates of the Department of Commerce. For information and a list of current delegated municipalities, see the S&B WebSite, [www.commerce.state.wi.us/SB/SB-CommercialBuildingsCertifiedMunicipalities.html](http://www.commerce.state.wi.us/SB/SB-CommercialBuildingsCertifiedMunicipalities.html).

Purchase a compact disc electronic copy of the "Wisconsin Enrolled Commercial Building Code," Comm 61-65.

See <http://www.commerce.state.wi.us/SB/SB-DivCodesListing.html>.

Or see page 2 of this *WCCR*.

Plumbing information in a Q&A format organized by code section is on the S&B WebSite: <http://www.commerce.state.wi.us/SB/SB-PlumbingDatabaseReport.html>

# Wastewater reuse is a new option in Wisconsin

by Glen Schlueter, S&B Plumbing Products Reviewer, 608-267-1401, Gschlueter@commerce.state.wi.us

Comm 82.70, which became part of the Plumbing Code on May 1, 2003, contains performance-based requirements for water reuse (i.e., recycling/reclaiming). The wastewater treatment required depends on the intended reuse application.

So far, typical basic systems that I've seen as the Safety and Buildings Division plan reviewer for reuse systems are comprised of anaerobic treatment units, followed by aerobic treatment units, with subsequent filtration and disinfection. To date, the most frequently requested reuse of wastewater is toilet and urinal flushing.

A primary benefit of water reuse is the conservation of a life-supporting resource. Today the abundant water supplies in Wisconsin are under increasing pressures due to population growth and development. This is particularly true of groundwater aquifers that take longer to recharge. Within the Fox Valley region in northeast Wisconsin, rates of groundwater depression have exceeded four feet per year.

Another primary benefit of water reuse technology is that it provides attractive options to mound systems and privies in areas that lack suitable soils and/or water supplies. Properly used and maintained, closed loop systems require very limited additions/subtractions.

As of October 31, 2003,



a total of twenty-six reuse systems have been approved by S&B for use in Wisconsin. Twenty-five are blackwater reuse systems approved as experiments and one is a stormwater reuse system.

Some very advanced systems have been discussed and are being designed. For example, one proposal incorporates the use of manufactured soil and special broad-leafed tropical plants that convey water to the atmosphere via transpiration.

If you have questions or comments on water reuse, or the S&B processes for reuse system approval, contact me, Glen Schlueter, 608-267-1401, gschlueter@commerce.state.wi.us, or contact Tom Braun, S&B Plumbing Consultant, tbraun@commerce.state.wi.us, 715-340-5387.

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**If you hear someone remark they didn't see a recent *WCCR*, please remind them that the publication is no longer sent out free to all plumbing credential holders. See page 10 for subscription info. The publication is available free on the S&B WebSite 2-3 weeks before paper copies are mailed, <http://www.commerce.state.wi.us/SB/SB-DivPublications.html>. You can receive an email notice of when the publication is online, <http://www.commerce.state.wi.us/SB/SB-DivEmailSignup.html>.**

## Fax or email technical code questions to:

- Building and plumbing products ..... 608-283-7407 ..... productech@commerce.state.wi.us
- Commercial buildings, Comm 61-65 ..... 608-283-7402 ..... bldgtech@commerce.state.wi.us
- Electrical ..... 608-283-7418 ..... electrictech@commerce.state.wi.us
- Fire protection systems ..... 608-283-7405 ..... fireprotech@commerce.state.wi.us
- Licenses, certifications, registrations ..... 608-283-7400 ..... madisoncred@commerce.state.wi.us
- Manufactured/mobile homes ..... 608-283-7401 ..... manf-homes@commerce.state.wi.us
- One- and Two-family Dwelling Code ..... 608-283-7428 ..... udctech@commerce.state.wi.us
- Plumbing, cross connection ..... 608-283-7403 ..... plbgtech@commerce.state.wi.us
- Private onsite wastewater treatment ..... 608-283-7404 ..... powtstech@commerce.state.wi.us
- Public Sector Safety ..... 608-283-7419 ..... healthsafetech@commerce.state.wi.us
- Public swimming pools ..... 608-283-7406 ..... pooltech@commerce.state.wi.us

# Note on hot water systems in health care

by Lynita Docken, S&B Plumbing Program Manager, 608-785-9349, Ldocken@commerce.state.wi.us

I have recently been asked, "When additions are planned for an existing hospital, is it necessary to heat or chemically treat the hospital's entire hot water supply?" The answer is, "No."

May 1, 2003, code revisions put into place requirements that hot water distribution systems be installed and maintained for bacterial control, Comm 82.50(3)6.

The plumbing code is not retroactive, so only the installation of "hot water distribution systems" after May 1, 2003, are required to comply.

A "hot water distribution system" is that portion of the water distribution system from a water heater to the connection of a fixture supply connector, plumbing fixture, plumbing appliance, water-using equipment, or other piping system.

If a hospital is planning on adding fixtures, rooms, or floors without adding a heater to create a complete hot water distribution system, no disinfection requirements apply. Similarly, if a water heater is being replaced, these rules would not apply unless the water distribution system downstream was also being replaced.

By the way, when the new hot water temperature or treatment requirements are called for, there are a good number of options for a facility to comply, including these:

- Increasing the water temperature at the heater and relying on thermostatic mixers to protect patients from scalding,
- Adding a liquid chlorine injection system,
- Adding an ultraviolet light,
- Treating the system with another approved method of disinfection,
- Developing a periodic maintenance plan for heat or chemical eradication, or
- An option may be as simple as contacting the water purveyor to ascertain whether the residual chlorine in the public water supply is at or above two mg./L.

Questions regarding hot water distribution systems in hospitals, community based residential facilities, inpatient hospices, or nursing homes may be directed to the plumbing plan reviewers, or Glen Schlueter, plumbing product reviewer, listed on pages 10 and 11.

A previous article on the subject of hot water distribution systems in health care facilities appeared in the July, 2003, issue of *WCCR*.

You may search S&B computer records for Cross Connection Control Device information. See the plumbing program page, <http://www.commerce.state.wi.us/SB/SB-PlumbingProgram.html>

## *Wisconsin Construction Codes Report*

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