

Fire protection system plan review this fall

By John Lippitt, S&B Fire Safety Program Manager, 608-266-1036, jlippitt@commerce.state.wi.us

Currently, detailed fire suppression or fire alarm plans are not submitted to the Safety and Buildings Division for plan review and approval prior to installation. That will change this fall.

Statutory mandates of Section 101.12(1)a require "the submission of essential drawings, calculations and specifications ... including the following components ... fire detection, prevention, or suppression systems."

Two new professional engineer level positions were

approved in the 2000-2001 state budget bill for S&B to perform fire protection system plan review. S&B is recruiting for the positions and hopes to have the plan review process up and running by late fall, early winter 2000.

“...hope to have the plan review process up and running by late fall, early winter 2000.”

See page 8 for job listing.

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Onsite audits of fire departments begin in April

By John Lippitt, S&B Fire Safety Program Manager

Beginning in April 2000, the Safety and Buildings Division will be conducting onsite audits of fire departments in Wisconsin to determine eligibility for fire department dues.

In May, 1999 S&B mailed to each fire chief in the state the *Wisconsin Fire Department Dues Fund Guide*, explaining the process and procedures that will be used by S&B to conduct the audits.

It is a goal of S&B to conduct an onsite audit of each fire department every three years. To meet this goal, the five S&B Fire Safety Consultants will perform the audits in their assigned geographic districts. This allows for the consultant to meet directly with members of every fire department in their district, which may allow for better communication between the fire service and S&B.

Letters announcing the April scheduled audits were to be mailed in early March. Audits will be scheduled, and letters will be sent, on an ongoing basis throughout the year. Questions regarding the audits may be directed to the fire safety consultants listed on page 15 of this *WBCR*.

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Wisconsin Building Codes Report
Safety and Buildings Division,
Department of Commerce
February 2000

Employment Opportunity

Plan Review Specialist - City of Madison



Plan Review Specialist III - The City of Madison, Department of Planning and Development, Inspection Unit is recruiting for a Plan Review Specialist. No City of Madison residency is required for this position. Salary begins at \$40,224 and through five steps in 30 months progresses to \$46,932. In addition, during that period there are annual increases that historically have been three percent per year. The City of Madison has an excellent benefit package and is part of the State Retirement System.

General Responsibilities: This is skilled technical work within the Inspection Unit of the Department of Planning and Development. The work involves independently reviewing commercial building plans to insure building and mechanical code compliance; providing technical assistance to bidders, architects and engineers; issuing building permits; waiting on customers; answering building and mechanical code questions relating to state and city building requirements, permit fees and appeal procedures; and identifying potential problem areas.

Knowledges, Skills and Abilities: Knowledge of architectural and engineering principles and practices. Working knowledge of building construction and heating and ventilation systems, mechanical and construction codes, terms, practices, methods and materials. Ability to perform inspections of more complex building sites. Ability to effectively communicate both orally and in writing. Ability to maintain adequate attendance. Extensive knowledge of structural design and calculations.

Training and Experience: Three years of responsible building design plan review work in either a code compliance or design capacity. Such experience would normally be gained after completion of an associate degree in architectural design, engineering, or a related discipline, or equivalent post-high school training. Completion of a bachelor's degree in architecture or civil engineering from an accredited college or university can be substituted for up to two years of experience. Other combinations of training and/or experience, which can be demonstrated to result in the possession of the knowledges, skills and abilities necessary to perform the duties of this position, will also be considered.

Applications and Complete Job Description: Are available at the City Human Resources Department, Room 501, City-County Building, 210 Martin Luther King, Jr. Blvd., Madison, WI 53709, 608-266-6500. For TDD (hearing impaired) accessibility and FAX, dial 608-267-1115. Applications will be accepted until 4:30 p.m. on April 7, 2000.

Safety and Buildings-related codes are on the Internet
<http://www.commerce.state.wi.us/SB/SB-CodesListing2000.html>

State administrative codes and the code update service may be purchased by contacting state Document Sales, 608-266-3358, or 800-362-7253, for credit card purchases. ❖ ❖ ❖ ❖ ❖ ❖

Fire protection systems plan review

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Occupancies to be reviewed:

- ~ CBRFs within the scope of Comm 57;
- ~ Hotels and motels;
- ~ Detention facilities;
- ~ K12 schools;
- ~ Atriums located in any type of occupancy.

Fire safety features and systems to be reviewed:

- ~ Fire alarm systems;
- ~ Automatic fire sprinkler systems;
- ~ Alternate fire suppression systems;
- ~ Manual-wet sprinkler systems;
- ~ Standpipe and hose systems;
- ~ Portable fire extinguishers;
- ~ Atrium smoke control systems;
- ~ Spray booths;
- ~ Flammable/combustible liquids storage rooms.

The systems and features listed above will be reviewed only in the types of occupancies listed above, and only for those projects that require building plan review as specified in Comm 50-64.

Details on submittal fees and municipal plan review delegation categories are being developed. S&B plans to create a task group to make recommendations for

S&B WebSite



[http://www.commerce.state.wi.us/SB/SB-](http://www.commerce.state.wi.us/SB/SB-HomePage.html)

[HomePage.html](http://www.commerce.state.wi.us/SB/SB-HomePage.html)

plan review standards to be used by both state and municipal plan reviewers for uniform fire protection system plan reviews statewide.

As in the past, S&B will partner with local municipalities to provide plan review services. Municipalities that have been reviewing fire safety features and systems in the past will be encouraged to continue providing that service. S&B needs local partners to assist us in plan review, it would greatly tax division resources to provide service to the entire state.

For additional information, call me, 608-266-1036, or email, jlippitt@commerce.state.wi.us.

Subscriptions

For those of you who receive the *WBCR* free because you have a particular license administered by the Safety and Buildings Division, for address changes contact the S&B Licensing Unit, madisoncred@commerce.state.wi.us, 608-261-8500.

People with paid subscriptions, may request service and address changes from Material Orders, PO Box 2509, Madison, WI 53701. Fax 608-261-6699. Telephone 608-267-4405. Email phobbs@commerce.state.wi.us

Subscriptions are \$20, payable in advance to the Safety and Buildings Division for 12 monthly issues.

There are multiple S&B plan review scheduling options



➔ Toll-free **fax** appointment scheduling for buildings and plumbing

The Safety and Buildings Division has a 24-hour fax number dedicated to receiving **fax plan review** appointment requests: 877-840-9172. Faxing the front of the building or plumbing plan review application forms provides information for S&B staff to use to schedule.

Indicate on the appointment request whether you want the next available review statewide, or you prefer to choose an office regardless of review date. You will receive a return fax with an appointment date, transaction identification number, and the name of the assigned reviewer.

Plans must be received in the office of the appointment no later than two working days before the confirmed appointment.

➔ You may **email** an appointment request to madisonsch@commerce.state.wi.us

Information needed in the email: name and address of project and submitter, description of project, and size of project or number of fixtures. Note requested office or desire for first available opening statewide.

➔ Call any of the offices to schedule by **telephone**

If you wish to schedule a review appointment by phone, you may call any of the full-service offices listed on the application form or on page 14 of this *WBCR*. Please have sufficient project information ready to make the appointment.

➔ Information on the next available appointment date and forms are on the **S&B WebSite**

The S&B WebSite has up-to-date information on the next available review appointment date in each of S&B full-service office, and has electronic copies of forms that can be printed or downloaded. The WebSite Home Page address is <http://www.commerce.state.wi.us/SB/SB-HomePage.html>. Look at “Plan Review Appointments” and “Forms” links on the left side of the page.

Codes are also online at the state legislature’s Revisor of Statutes website: <http://www.legis.state.wi.us/rsb/code/codtoc.html>.

➔ Get immediate returns from an automatic **faxback** system

You can telephone requests into an automatic fax system for fax copies of forms and other information, and have a fax sent back to you in minutes. To receive a menu of available forms, use a touchtone phone to dial the faxback number: 608-266-1018. When your call is answered, press *10, then 5, then 1, and then enter your fax number.

The current menu includes review application forms for buildings, plumbing, POWTS, pools, and elevators, the petition for variance form, and compliance statement forms.

➔ If you don’t schedule, your review will be **assigned**

Unscheduled submittals and submittals received without a confirmed appointment date and transaction number on the form will be scheduled when received. The plans may be assigned to offices other than the receiving office, depending on reviewer availability.

Electrical questions and answers

by the Safety and Buildings Division Electrical Program staff

1. Is GFCI protection for 120-volt, 15- and 20-ampere receptacles required at carnivals, church festivals, and other temporary exhibition shows?

Yes. This requirement was effective 10/1/99. There is an exception for receptacles supplying cooking and refrigeration equipment. See NEC 525-18. The requirement is similar to GFCI protection rules for construction sites.

2. Should the term “natural gray” be removed from 200-6(a), since this color insulation does not seem to exist?

Good point. “Gray” is commonly used as the neutral of a 480/277Y system. Wisconsin interprets 200-6(a) to include “gray” wire as “natural gray”. Panel 5 has accepted a proposal for the 2002 NEC to remove the word “natural” in front of “gray,” to clear up any confusion in other parts of the country.

3. Some people interpret NEC 250-94 to allow standard locknuts on both sides of a “clean” knock-out. The locknuts are used to both secure the conduit to the enclosure as well as bond the conduit to enclosure.

Double locknuts are **not permitted** to meet the service bonding requirements. Double locknuts with a bonding bushing are permitted for this use. Another alternative is to use a standard locknut on one side, a bonding type locknut on the other. The latter method is permitted only where the knock-out is the same size as the raceway. All eccentric or concentric knockouts must be removed.

4. Is a pit permitted under a switchboard or management control conductor?

Yes. The pit is built to facilitate routing the conductors. Typically, the raceway terminates in the floor or wall of the pit. The conductors are pulled through the pit and into the vertical section of the switchboard. In other words, the pit is used as an auxiliary gutter. Several requirements are very important to note. Section 230-7 requires service

conductors be routed separate from other conductors. Both the conductors and the raceways must be accessible. Removal of the panels to gain access to the pit is permitted.

Removal of the switchboard to gain access to the conductors is not. The conductor bending radius requirements of Section 373-6 must be met. Conductors shall be suitable for wet locations.



5. Does the installation of a card reader on the gas pumps define a service station as “unattended?”

Yes. NFPA 30 requires such sites be treated as unattended filling stations. Section 514-(5)(c) requires emergency controls installed outside of the building. The controls have to be at least 20 feet away, but no more than 100 feet from the dispensers. The emergency controls must shut off power to all dispensing equipment at the station. Additional emergency controls may be necessary to meet distance requirements. “All dispensing equipment” includes gasoline, diesel, propane, or compressed natural gas dispensers. The emergency controls cannot automatically reset.

6. Does Section 336-6 permit 3-No. 8’s or 2-No. 6’s to be fastened to the under side of joists in a basement? I’m confused over purpose of old COMM 16.325.

Yes. Hopefully the 1999 NEC resolved this issue. Section 336-6 covers exposed work. With the exception of Section 300-11(a), exposed NM cable must comply with sections 336-6(a), (b), (c), or (d). Section 336-6(d) covers unfinished basements. A cable that consists of 2-No. 6 AWG or 3-No. 8 AWG conductors is the smallest size that can be secured to the lower edge of the joist. Smaller

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It's important to know fire extinguisher annual maintenance regulations

Daniel J. Graham, Fire Safety and Electrical Sections Chief, Bureau of Field Operations, 608-267-7304, dgraham@commerce.state.wi.us

One of the most frequently inspected items in any building is the fire extinguisher. These bright red objects are highly visible, and can result in violations due to the lack of inspection or maintenance.

The inspection, maintenance, and servicing of fire extinguishers is covered in "NFPA 10, Standard for Portable Fire Extinguishers." The standard is adopted by reference in Comm 14.40, and other Comm chapters. Additional requirements for fire extinguishers may be imposed by the local jurisdiction as provided for in Comm 14.05.

Fire Inspectors should determine if fire extinguishers are in-service by reviewing the documentation, and checking the extinguishers for deficiencies or damage.

Fire Inspectors can also ask to see a maintenance manual, and question the maintenance person on how the annual maintenance was conducted.

The Safety and Buildings Division does not issue a credential for fire extinguisher service personnel and

"... and Wisconsin has not adopted any code requirement for a building owner to use the services of a private contractor to perform maintenance on fire extinguishers."

Wisconsin has not adopted any code requirement for a building owner to use the services of a private contractor to perform maintenance on fire extinguishers.



As an example: A small company uses dry chemical, stored-pressure fire extinguishers. The janitor is assigned to maintain the fire extinguishers. Annual maintenance as defined by the manufacturer includes: an external visual inspection of all parts, hefting, checking the pressure gauge, inverting the extinguisher and tapping on it with a mallet. In this case, the service manual could be a faxed page from the manufacturer. The tools would include a mallet. Training could be as simple as reading the fax. And the maintenance record could be a single page, or chart.

NFPA 10 defines "maintenance" as: "A thorough examination of the fire

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Electrical Q and A

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cables must be routed through holes bored in the center of the joists, along the side of the joists, or can follow running boards. This rule applies even if you cannot see the cables when they are installed above a suspended ceiling. Wiring methods and equipment that are mounted above a suspended ceiling are considered "exposed."

7. The Wisconsin Uniform Dwelling Code requires that openings through exterior walls or ceilings of a house be sealed. The purpose is energy conservation. What are the sealing requirements for switch or receptacle boxes located in the outside wall or attic ceiling?

There are several options. All openings in the box are sealed with caulk or foam. The foam or caulk does not have to have any particular "fire rating." In addition, the space between the box and the drywall must be sealed. Caulk, foam, drywall cement, or similar substances are approved for this use. Instead of filling the space around the box, you are permitted to use a gasket. The gasket mounts over the device and behind the cover plate. The gasket must be "closed cell neoprene." A last option is using special boxes that are made for energy conservation. Such boxes have the gaskets or seals built into the box. Another type of special box goes "over" a conventional box.

If you have questions, contact the Electrical Consultants listed on page 15 of this *WBCR*.

extinguisher. It is intended to give maximum assurance that a fire extinguisher will operate effectively and safely. It includes a thorough examination and any necessary repair or replacement. It will normally reveal if hydrostatic testing or internal maintenance is required.”

Maintenance is usually an external examination of the extinguisher, but may include more invasive examination depending on the type of extinguisher. NFPA 10: 4-4.1.1 Stored-pressure types containing a loaded stream agent shall be disassembled on an annual basis and subjected to complete maintenance. Prior to disassembly, the fire extinguisher shall be fully discharged to check the operation of the discharge valve and pressure gauge. The loaded stream charge shall be permitted to be recovered and re-used, provided it is subjected to agent analysis in accordance with manufacturer’s instructions.”

NFPA 10 places the responsibility for maintenance as indicated: “4-1.3 The owner or designated agent or occupant of a property in which fire extinguishers are located shall be responsible for such inspection, maintenance, and recharging. (See 4-1.2 and 4-1.4.)”

This statement does not require the owner or agent to use a company specializing in servicing fire extinguishers. The requirement for trained personnel is defined in: “4-1.4* Maintenance, servicing, and recharging shall be performed by trained persons having available the appropriate servicing manual(s), the proper types of tools, recharge materials, lubricants, and manufacturer’s recommended replacement parts or parts specifically listed for use in the fire extinguisher.”

The NFPA 10 Appendix provides additional information, but does not require the use of a contract service. “A-4-1.4 A fire equipment servicing agency is usually the most reliable means available to the public for having maintenance and recharging performed. Large industries could find it desirable to establish their own maintenance and recharge facilities, training personnel to perform these functions. Service manuals and parts lists should be obtained from the fire extinguisher manufacturer.”

The NFPA 10 describes maintenance as: “4-4.2* Procedures. Maintenance procedures shall include a thorough examination of the three basic elements of a fire extinguisher:

- (a) Mechanical parts,
- (b) Extinguishing agent,
- (c) Expelling means.

Exception: During annual maintenance, it is not necessary to internally examine non-rechargeable fire extinguishers, carbon dioxide fire extinguishers, or stored-pressure fire extinguishers, except for those types specified in 4-4.1.1. However, such fire extinguishers shall be thoroughly examined externally in accordance with the applicable items of 4-4.2(a).”

Given the information in the NFPA 10, a facility owner could train a designated employee as the fire extinguisher maintenance person. Given the proper tools and service manuals, the employee could conduct annual maintenance.

Each fire extinguisher is required to have a system of record keeping that will ensure that maintenance is performed as required by NFPA 10. A paper tag tied to the fire extinguisher has been the most widely used and accepted method of identifying the maintenance of each fire extinguisher. NFPA 10 does not define the paper tag as the only method.

“4-3.4.3 Records shall be kept on a tag or label attached to the fire extinguisher, on an inspection checklist maintained on file, or in an electronic system (e.g., bar coding) that provides a permanent record.”

“4-4.4* Maintenance Record keeping. Each fire extinguisher shall have a tag or label securely attached that indicates the month and year the maintenance was performed and identifies the person performing the service.”

“A-4-4.4 Record keeping. In addition to the required tag or label (see 4-4.4), a permanent file record should be kept for each fire extinguisher. This file record should include the following information, as applicable:

- (a) The maintenance date and the name of person or agency performing the maintenance,

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Employment Opportunities

Engineering Consultants - Fire Suppression Systems - Entry and Advanced - Madison, Milwaukee Areas

Department of Commerce, Division of Safety and Buildings; Madison. **Salary:** Minimum starting salary for the entry level position is \$31,386, plus excellent benefits. (A higher starting salary MAY be negotiated for applicants having the highest level of qualification, but at this point this has not been determined.) Starting salary for the Advanced level position is \$46,115. This classification is represented by the State Engineering Association. Two vacancies exist. One vacancy is an entry level and will be included in the Entry Professional Program (EPP). This is designed for candidates with educational background, and little or no work experience. The second position is an advanced level position, and requires extensive education and experience. **Duties:** Provide consultation regarding fire prevention and protection system design and construction; provide code and policy interpretation; develop materials for and participate in training, seminars, etc.; examine plans, specifications, and engineering calculations for fire protection systems to determine compliance with Wisconsin administrative rules and National Fire Protection Association (NFPA) standards to determine compliance; examine building, HVAC, and lighting plans for compliance with codes. **Knowledge and Skills:** Knowledge of architectural and engineering practices and principles, specifically in the field of fire protection; engineering design principles of fire detection and suppression systems; Wisconsin Administrative Code Chpts. Comm 50-64, 66, 69, 70, 75-79; NFPA Code; and effective oral, written and interpersonal communication techniques. **Well-qualified candidates will have a 4-year degree in fire protection engineering from an ABET accredited college, EIT, PE, Registered Designer License, or equivalent.** For information, call or write to Dale Bartz; Commerce Personnel; 201 W. Washington Ave; PO Box 7970; Madison, WI 53572-7970; 608-266-0366; FAX 608-266-0182; email: dbartz@commerce.state.wi.us.

Fire extinguisher annual maintenance regulations

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(b) The date when last recharged and the name of person or agency performing the recharge,

(c) The hydrostatic retest date and the name of person or agency performing the hydrostatic test,

(d) Description of dents remaining after passing a hydrostatic test,

(e) The date of the 6-year maintenance for stored-pressure dry chemical and halogenated agent types (See 4-4.3.)

As stated in NFPA 10: Section 1-2, "Nothing in this standard shall be construed as a restriction on new technologies or alternative arrangements,

provided that the level of protection as herein described is not lowered and is acceptable to the authority having jurisdiction." It is recognized that an electronic bar coding system is often acceptable to the authority having jurisdiction, in lieu of a tag or label for maintenance record keeping.

Under special circumstances or when local requirements are in effect, additional information can be desirable or required.

Fire extinguishers may or may not be tagged, however documentation must exist as described above. All documentation including tags shall be current. If a company uses a multi-year tagging system, it may be acceptable as long as the documentation is current.

Building code fire safety rule package adopted

By John Lippitt, S&B Fire Safety Program Manager, 608-266-1036, jlippitt@commerce.state.wi.us

Fire safety revisions to the Wisconsin Commercial Building Code, Comm 50-64, are expected to have an April 1, 2000 effective date.

A revision highlight is updating the currently adopted NFPA standards to the latest editions, including the 1999 editions of NFPA 13, 13R, 20, 54, and 72.

Also, S&B is now adopting the NFPA standards for design, installation, inspection, testing and maintenance of alternate fire suppression systems. This includes adoption of NFPA 11, Standard for Low-Expansion Foam; NFPA 11A, Standard for Medium- and High-Expansion Foam Systems; NFPA 12, Standard on Carbon Dioxide Extinguishing Systems; NFPA 12A, Standard for Halon 1301 Fire Extinguishing Systems; NFPA 16, Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems; NFPA 17, Standard for Dry Chemical Extinguishing Systems; NFPA 17A, Standard for Wet Chemical Extinguishing Systems; NFPA 750, Standard on Water Mist Fire Protection Systems, and NFPA 2001, Standard on Clean Agent Fire Extinguishing Systems.

See the revised Table Comm 51.25-17 for dates of the adopted NFPA standards.

Additionally, NFPA standards were added to the building code for issues regarding storage and isolation of certain hazardous materials. This includes adoption of NFPA 30, Flammable and Combustible Liquids Code; NFPA 30A, Automotive and Marine Service Station Code; NFPA 30B, Manufacture and Storage of Aerosol Products; NFPA 33, Standard for Spray Application Using Flammable or Combustible Materials; NFPA 34, Standard for Dipping and Coating Processes Using Flammable or Combustible Liquids; NFPA 45, Fire Protection for Laboratories Using Chemicals; NFPA 51, Standard for the Design and Installation of Oxygen-Fuel Gas Systems for Welding, Cutting, and Allied Processes; NFPA 430, Code for the Storage of Liquid and Solid Oxidizers; NFPA 432, Code for the Storage of Organic Peroxide Formulations, and

NFPA 495, Explosive Materials Code. Users of the code must go to the revised Comm 51.08(2) to find specific requirements and application of the newly adopted standards.

Rules were created in Comm 51.02(24) to specify requirements for fireblocking of concealed spaces in combustible construction.

Existing rules were clarified and new rules were added in Comm 51.047 and 51.048 for protection of openings in fire-resistive rated assemblies with fire doors and fire windows, and additional rules were added for conveyor openings.

Rules were created in Comm 51.049 regarding providing protection of construction joints.

Freezer warehouses no longer have an exception to the requirements for providing sprinkler fire protection.

S&B codified in Comm 51.236 requirements for manual-wet sprinkler systems; this is a special application system with many limitations, not to be confused with an automatic fire sprinkler system.

Comm 64.67 (8) requires duct and hood systems to be maintained in accordance with NFPA 96.

The majority of the revisions follow the direction provided in the final draft of the International Building Code (IBC), a national model building code. The IBC was used for general direction because S&B is considering adopting it as the base document for the Commercial Building Code in Wisconsin.

Fire Safety Publications are available free from the Federal Emergency Management Agency website, <http://www.usfa.fema.gov/safety/fspubs.htm>



Continuing education soon for some fire sprinkler licenses

For more information, contact the Safety and Buildings Licensing Unit, 608-261-8500, madisocred@commerce.state.wi.us.

Rules are expected to go into effect May 1, 2000 under Comm 5, 82, and 84 establishing continuing education responsibilities for three fire sprinkler licenses: Automatic Fire Sprinkler Contractor; Journeyman Automatic Fire Sprinkler Fitter, and Automatic Fire Sprinkler Contractor-Maintenance.

The continuing education requirements for license renewal do not go into effect until individuals renew their licenses to be valid from July 1, 2003 to June 30, 2005. However, these people must gain their continuing education credit -12 hours - between March 30, 2001 and March 29, 2003.

Those people who renew their licenses to be valid between July 1, 2004 to June 30, 2006, must fulfill their con ed responsibilities between March 30, 2002 and March 29, 2004.

New AFS contractor qualifications

The new rules also impose specific qualifications for people wishing to take the automatic fire sprinkler contractor license test; there previously had not been specific qualifications.

A person wishing to take the automatic sprinkler

contractor license test shall have one of the following qualifications:

(a) At least 1000 hours of experience per year for at least three consecutive years as a licensed journeyman automatic fire sprinkler fitter.

(b) Graduated from an accredited four-year engineering university or college with a degree in civil engineering, mechanical engineering or other approved engineering curriculum related to automatic fire sprinklers.

(c) At least 1000 hours of experience per year for at least seven years in automatic fire sprinkler design or installation. Each semester spent full-time in a school of civil or mechanical engineering or other accredited college, university, technical or vocational school in an automatic fire sprinkler-related program shall be considered equivalent to 500 hours of experience, with no more than 3,000 hours and three years of experience through education being credited toward the seven years of experience.

d) A level III certification in fire protection/automatic fire sprinkler system layout from the national institute for certification in engineering technologies.

Employment Opportunity - Clark County Assistant Zoning Administrator

The Clark County Planning and Zoning Department is seeking applicants for a newly created position of full-time "Assistant Zoning Administrator." This position will assist with administration of the private sewage program and of non-metallic mining reclamation. Primary duties will be reviewing soil tests, holding tank plans and permit applications, conducting field inspections and investigating complaints.

Required is a bachelor's degree in soil science, natural resources or a related field, and a minimum of 1-2 years professional experience. Possession of a Department of Commerce Certified Soil Tester (CST) license is required, and a valid WI driver's license. Salary range: \$36,442- \$42,702 plus excellent benefits.

For applications contact the Clark County Planning & Zoning Department, 517 Court Street, Room 204A, Neillsville, WI 54456 (715) 743-5130. Application deadline is Friday, March 31, 2000 at 5 p.m. Clark County is an EEO/CRC Employer.

Check "Model GB" fire sprinklers for problems

Underwriters Laboratories (UL) reports certain "Model GB" series fire sprinklers manufactured by Central Sprinkler Company of Lansdale, Pennsylvania, may leak or may not operate in a fire because they require a higher water pressure than is available in some buildings. The sprinklers under investigation have "O-ring" water seals. UL is an independent, not-for-profit product safety certification organization.

Central Sprinkler suggests any sprinkler system containing their Glass Bulb sprinklers with o-rings should be inspected by a qualified sprinkler contractor to determine if the Glass Bulb sprinklers exhibit any signs of corrosion, leaking, or weeping. If they do, the company asks the owner to call 800-523-6512 for information regarding replacement sprinklers. There is not a recall of the product at this time.

In addition, Central Sprinkler emphasizes the Glass Bulb sprinklers referred to by UL are not the glass bulb sprinklers with Belleville seals currently being used to replace Central Sprinklers Omega-brand fire sprinklers pursuant to the U.S. Consumer Product Safety Commission recall and nationwide class-action settlement.

UL recommends building managers, homeowners, and property owners whose buildings or homes are equipped with these sprinklers assess their fire sprinkler system.

The "Model GB" series sprinklers under investigation were introduced in 1988 and are identified by the following prefixes: GB, GB-ALPHA, GB-J, GB-QR, GB-EC, GB-RS, GB-20, GB-20QR, GBR, GB-R1, GB-R2, GBR-LF, GB4, GB4-EC, GB4-FR, GB4-QREC, BB1, BB2, BB3, SD1, SD2, SD3, HIP, ROC, LF and WS. All of these models may be affected, without regard to the year of manufacture or installation.

Currently manufactured versions of these models are not equipped with an "O-ring" water seal. Only those models equipped with "O-ring" water seals are under investigation.

Illustrations of the sprinkler models are available on the UL website, <http://www.ul.com/about/newsrel/gbsprnklr.html>.

According to UL vice president, Jim Beyreis, "From some of the field samples we've seen, crystallized white or dark-colored deposits or corrosion may be observed around the sprinkler's water seal assembly, indicating that water has leaked past the sprinkler's 'O-ring' water seal. National Fire Protection Association (NFPA) standards require that leaking sprinklers be replaced. UL recommends that these leaking sprinklers be replaced as soon as possible."

Even if there are no visible signs of leakage, Beyreis said, the operation of the "Model GB" series sprinklers in the event of a fire is open to question because they may require higher water pressure to operate than is available in the buildings involved.

UL reports that initial testing of approximately 90 samples indicated approximately 20 percent of these sprinklers did not operate at a water pressure of five pounds per square inch (psi), which is the pressure at which new sprinklers are required to operate in order to earn a UL Listing, nor at 7 psi, which is the pressure that new sprinklers are required to operate in order to meet the NFPA installation requirements. Although the water pressure available in most buildings exceeds 7 psi, a few sprinkler samples tested by UL did not operate at 60 psi, which exceeds the water pressure that is available in some occupancies, including residences.

S&B Bureau of Integrated Services Management Contacts

Bureau Director: Randy Baldwin, 608-267-9152

Green Bay office: Brad Johnson, 920-492-5605

Hayward Office: John Spalding, 608-789-4693

LaCrosse Office: John Spalding, 608-789-4693

Madison Office:

Clyde Bryant 608-266-1835

Mary Jacobson 608-266-8456

Jim Miller 608-266-8072

Robin Zentner 608-266-1930

Credentialing Unit Supervisor, Terry

Gudmansen: 608-261-6554

Shawano Office: Brad Johnson, 715-524-6853

Waukesha Office: Tony Rubio, 262-548-8610

Material Approvals

Transluc. Panel Sys., 970003-L (Revised)

Major Industries, Inc.
P.O. Box 306, 7120 Stewart Avenue
Wausau, Wisconsin 54402

Heaters(Water & Pool), 980073-H

Raypak, Inc.
31111 Aqoura Rd.
Westlake Village, CA 93021

Boiler (Dual Use), 990052-H

Raypak, Inc.
31111 Aqoura Rd.
Westlake Village, CA 93021

Leak Detectors, 990070-U

FE Petro, Inc.
4805 Voges Road
McFarland, WI 53558

Infrared Heater System, 990073-H

Reznor/Thomas & Betts Corp.
150 McKinley Ave.
Mercer, PA 16137

Grease Duct System, 990074-H

Metal-Fab, Inc.
3025 May Ave., P.O.Box 1138
Wichita, KS 67201

Boiler, 990075-H

Burnham Corp.
P.O.Box 3079
Lancaster, PA 17604

Per COMM 10.125, COMM 20.18, and COMM 50.19, the following have been issued material approvals in January 2000. The approvals are valid for a five-year period. Copies of the full approval are available from the Integrated Services Bureau, P.O. Box 2658, Madison, WI 53701-2658.

Relocatable Office, (Model F-2464) 990076-A

Markline Industries, Inc.
51687 C.R.133, P.O.Box 271
Bristol, IN 46507

Pre-Cast Concrete, 990077-P

MIDCON Products, Inc.
262 East Main St.
Hortonville, WI 54944

Columns, 200001-W

Jack Walters and Sons Corp.
6600 Highway D. P.O. Box 388
Allenton, WI 53002

Furnace, 200002-H

Empire Comfort Systems
918 Freeburg Ave.
Belleville, IL 62222

Concrete Plank, 200004-P

Mid States Concrete Products Co.
P.O.Box 58
Beloit, WI 53512-0058

Boilers, 200005-H

Weil-McLain
500 Blaine St.
Michigan City, IN 46360

Events Calendar

- April 6, 2000, Thursday, **Pool Code Advisory Council**, 9 a.m. – 3 p.m., Thompson Commerce Center, Rm. 3B, 201 W Washington Ave., Madison, Jean MacCubbin, 608-266-0955, jmaccubbin@commerce.state.wi.us

- April 6, 2000, Thursday, **Commercial Building Code Council**, 9 a.m. – 3 p.m., Wisconsin Manufacturers and Commerce, 501 E Washington Ave.,

Contact the listed Code Consultant for information on the meetings agenda, locations, etc. If you have questions concerning technicalities of the codes which are the subjects of the meetings, contact consultants and reviewers listed on pages 14 and 15 of this *WBCR*.

Madison, Sam Rockweiler, 608-266-0797, srockweiler@commerce.state.wi.us

- April. 12, 2000, Wednesday, **Multifamily Dwelling Code Council**, 9:15 a.m. – 3 p.m., Wisconsin Builders Association, 4868 High Crossing Blvd, Madison, Sam Rockweiler, 608-266-0797, srockweiler@commerce.state.wi.us

CERTIFIED MUNICIPALITIES

Per ILHR 50.21, the following municipalities are certified to review plans for new buildings containing less than 5,000 sq. ft. total area; additions to existing buildings where the total area after construction of the addition is less than 5,000 sq.ft.; and alterations to existing building where the area of altered space is less than 10,000 sq. ft. If your project is located in a listed municipality, and meets the size criteria, contact the municipality for plan review. For information regarding the current status of a municipality, call 608-267-7586.

<u>Counties</u>	Fitchburg	Middleton	Port Edwards	Walworth
Eau Claire	Fond du Lac	Milwaukee*	Poynette	Waterford
	Fontana	Monroe	Racine	Waukesha
<u>Cities and Villages</u>	Fort Atkinson	Muskego	Rhineland	Waunakee
Altoona	Franklin	New Berlin	Ripon	Waupun
Antigo	Fredonia	New Richmond	Seymour	Wausau
Augusta	Glendale	Oak Creek	Sheboygan	Wauwatosa
Beloit	Grafton	Oconomowoc	Silver Lake	West Allis
Berlin	Green Bay	Omro	Stevens Point	West Bend
Big Bend	Greenfield	Osceola	Sturgeon Bay	West Milwaukee
Black River Falls	Hartland	Oshkosh	Sun Prairie	Weyauwega
Brookfield	Hortonville	Osseo	Superior	Whitefish Bay
Brownsville	Howard	Paddock Lake	Sussex	Wis. Rapids
Burlington	Janesville*	Plover	Twin Lakes	
Cedarburg	Jackson			
Cudahy	Johnson Creek			
Delafield	Kaukauna			
Dousman	Kenosha			
Dresser	La Crosse			
Eau Claire	Lake Geneva			
Elkhorn	Madison*			
Elm Grove	Marshfield			
Fall Creek	Mequon			

Municipalities marked with an are authorized to review plans without limit on size of building or project.

Towns (County)

- Berry (Dane)
- Bloomfield (Walworth)
- Bristol (Kenosha)
- Cottage Grove (Dane)
- Delavan (Walworth)
- Farmington (Polk)
- Geneva (Walworth)
- Grand Chute (Outagamie)
- Grand Rapids (Wood)
- Hull (Portage)
- LaGrange (Walworth)
- Linn (Walworth)
- Mukwonago (Wauke.)
- Norway (Racine)
- Ottawa (Waukesha)
- Plover (Portage)
- Raymond (Racine)
- Seymour (Eau Claire)
- Somers (Kenosha)
- Springdale (Dane)
- Sugar Creek (Walworth)
- Theresa (Dodge)
- Waterford (Racine)
- Waukesha (Waukesha)
- Wheatland (Kenosha)
- Windsor (Dane)

There is also a group of municipalities having inspection authority for commercial and multifamily buildings, but which do not have plan review authority. (The Safety and Buildings Division does plan review for them.)

Inspections Only

Village of Belgium (Ozaukee)	Town of Pleasant Springs (Dane)
Village of Cambridge (Dane)	Town of Rochester (Racine)
Town of Cedarburg (Ozaukee)	Village of Rochester (Racine)
Town of Lyons (Walworth)	City of So. Milwaukee (Milwaukee)
Town of Madison (Dane)	Village of Sturtevant (Racine)
Town of Oakland (Jefferson)	Town of Summit (Waukesha)
Village of Oregon (Dane)	Village of Thiensville (Ozaukee)

Safety and Buildings Offices

(maps of S&B office locations are available on the WebSite at <http://www.commerce.state.wi.us/SB/SB-Offices.html>)

Green Bay Office
2331 San Luis Pl #150
Green Bay WI 54304
920-492-5601
Fax 920-492-5604
greenbaysch@commerce.
state.wi.us

Hayward Office
10541N Ranch Rd
Hayward WI 54843
715-634-4870
Fax 715-634-5150
haywardsch@commerce.
state.wi.us

La Crosse Office
4003 North Kinney
Coulee Road
La Crosse WI 54603
608-785-9334
Fax 608-785-9330
lacrossesch@commerce.
state.wi.us

Madison Office
201 W Washington Ave
PO 2658
Madison WI 53701
608-266-3151
Fax 608-261-6699
madisonsch@commerce.
state.wi.us

Shawano Office
1340 E Green Bay St #300
Shawano WI 54166
715-524-3626
Fax 715-524-3633
shawanosch@commerce.
state.wi.us

Waukesha Office
401 Pilot Ct # C
Waukesha WI 53188
262-548-8600
Fax 262-548-8614
waukeshasch@commerce.
state.wi.us

Plan Review Scheduling

For plan review scheduling for Plumbing and Buildings, call the S&B office numbers listed above, or contact the email address shown. Fax scheduling is possible. Information about the project will be needed to schedule the plan review. Any of the offices can schedule the first appropriate plan review available statewide.

Plan review for Private Onsite Wastewater Treatment Systems is provided on a first-come, first-served basis. Contact one of the offices for information.

For scheduling info, also see <http://www.commerce.state.wi.us/SB/SB-DailyDoc.html>.

Direct comments, suggestions for articles, etc., to Todd Taylor. Fax 608-264-8795.
Telephone 608-267-3606.
[ttaylor@commerce.state.wi.us/](mailto:ttaylor@commerce.state.wi.us)
Madison mailing address above.

Sample S&B email address:
dstilen@commerce.state.wi.us

Specialty Telephone Contacts

Barrier Free Access Donna Stilen 262-548-8609
Codes Sales 1-800-362-7253
Credentialing 608-261-8500
Elevator Plan Review Brian Rausch 262-521-5444
Heating and Ventilation .. Randy Dahmen 608-266-3162
Historic Buildings Duane Peterson ... 715-524-6852
Hospitals & Nursing Homes, DHFS 608-266-3878
Industrial Hygienists Richard Brandt 262-521-5187
Tom Pritchett 608-592-3974
Lighting Randy Dahmen 608-266-3162
Manufactured Dwellings Gary Ekes 608-355-0108
Mobile/Manufactured Homes 608-266-8577
Plan Review Status S&B offices listed on this page
Refrigeration Mike Verhagen 262-548-8617
Soil Erosion Control Mary Jo Webster . 608-266-2128
Structural Steel Welding . Mike Verhagen 262-548-8617
Training Tom Kasper 608-267-7586
Uniform Dwelling Code .. Leroy Stublaski 608-267-5113
Rental Weatherization...Delores Kolosovsky 608-267-2240
Teletypewriter (TTY) 608-264-8777

Boiler Inspectors

Duane Leetch Cornell 715-239-6009
James Markiewicz Appleton 920-832-5287
Rick Merkle Kenosha 262-653-6880
Rodney Nuttall Portage 608-742-0321
Steve Seibel Fond Du Lac 920-929-7513
Dean Yourchuck, Jr Muscoda 608-929-4578
Terry Waldbillig Waukesha 262-521-5066
Harold Stanlick, Superv. Waukesha 262-521-5065

Plumbing Consultants

Tim Joyce Madison 608-825-4724
Don Kay Green Bay 920-834-3093
Don Oremus Pelican Lake 715-487-6123
Jim Wehinger Friendship 608-339-7430
Jim Zickert Eldorado 920-872-2656
Tom Bembmister, Superv. Chippewa Falls 715-726-4520

POWTS Wastewater Specialists

Ross Fugill Shawano 715-524-3629
Leroy Jansky Chippewa Falls ... 715-726-2544
Carl Lippert Hayward 715-634-3484
Karl Schultz Oshkosh 920-424-3311
Dennis Sorenson La Crosse 608-785-9336
Duane Steiner West Baraboo 608-355-3159
Allen Wendorf Madison 608-873-5476
Harold Stanlick, Superv. Waukesha 262-521-5065

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Public Sector Occupational Safety Inspectors

Scott Amacher	Cameron	715-458-4872
Terrence Clark	Stevens Point	715-345-5342
Tomothy Condon	Waukesha	262-521-5189
Manuel Juarez, Jr.	Orfordville	608-879-2764
Vernon Lemke	Green Bay	920-492-5615
Shirley Noltmeyer	Waunakee	608-849-9862

Elevator Inspectors

David Holmes	Eau Claire	715-836-7268
Kenton Johnson	Mount Horeb	608-437-4093
Jim Kreuzer	Tomah	608-374-2430
Timothy Marty	Appleton	920-832-5290
George Poblocki	Amherst	715-345-5277
Roger Robbins	De Pere	920-336-0719
Jerry Rowell	Argyle	608-543-3414
Ted Stinson	Waukesha	262-521-5065
Bernard Zalewski	Lac du Flambeau	715-588-2279
Frank Wozniak	Waukesha	262-521-5065
Tom Bembmister, Superv.	Chippewa Falls	715-726-4520

Fire Safety Consultants

John Andersen	Chippewa Falls	715-726-2556
Dave Bruflat	Hayward	715-634-6739
Lyle Smith	Waukesha	262-548-8621
Robert Kiser	Appleton	920-954-1451
Terry Nolen	Verona	608-845-5375
Dan Graham, Superv.	Madison	608-264-7624

The *WBCR* is a monthly publication of the Safety and Buildings Division, Wisconsin Department of Commerce. It is delivered to about 4200 frequent plan submitters, inspectors, fire chiefs, and fire sprinkler credential holders. Subscriptions are also available. The publication provides information on fire safety, building-related codes, and credentialing topics.

SBD8482P

For subscription info, please see page three.

Electrical Consultants

Monte Ewing	Madison	608-266-3064
Tom Garvey	Milwaukee	414-747-0256
Raymond Weber	Wis. Rapids	715-421-2610
Dan Graham, Superv.	Madison	608-264-7624

Commercial Building Inspectors

Leonard Alexander	Reedsburg	608-524-3374
John Anderson	Clintonville	715-823-2014
David Bibeau	Antigo	715-627-7329
Teresa Black	Hayward	715-634-8114
Nicholas Charles	Stevens Point	715-345-5336
John Dahl	Menomonie	715-232-6600
Jane Drager	Combined Locks	920-788-4616
Steven Gothard	Cottage Grove	608-839-9835
Emil Jensen	Green Bay	920-822-2915
Chris Luster	Prairie du Chien	608-326-6779
Veronica Miller	Waukesha	262-521-5067
John Nygard	Green Bay	920-434-7192
Peter Ochs	Fond Du Lac	920-929-3167
Charlotte Martin	Edgerton	608-884-4168
Lawrence Weede	Lake Geneva	262-248-4922
Betty Wiese	Milwaukee	414-228-6956
Brian Ferris, Superv.	La Crosse	608-785-9335

Commercial Building Plan Reviewers

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	Tony Grzybowski	920-492-5609	
	Minh Tran	920-492-7730	
	Jack Wotruba	920-492-6500	
	Fax:	920-492-5604	
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Madison	Kenneth Beseke	608-261-8504	
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	Lynne LeCount	608-267-2496	
	Dale Mitchell	608-266-0669	
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	Rick Olson	608-266-9291	
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	Moktar Taamallah	608-266-8737	
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