

CCLD REVIEW

CONSTRUCTION CODES AND LICENSING DIVISION
MINNESOTA DEPARTMENT OF LABOR AND INDUSTRY

FALL 2016

Educational opportunities

CCLD Fall Seminars scheduled for building officials

Seminar title: Residential Plan Review and Minnesota Conservation Code for Existing Buildings.

When: Now through Oct. 27, 2016, at seven locations throughout Minnesota. Visit www.dli.mn.gov/ccld/education.asp for details.

Seminar topics:

Morning session: The morning portion of this day-long seminar will focus on Chapters 2-10 of the Minnesota Residential Code and how it applies when performing building plan review for a single-family home. Discussion will include whether building plans, specifications, calculations and design of a single-family dwelling comply with the Minnesota Residential Code.

Afternoon session: The afternoon portion will provide an overview and comparison of all Minnesota Existing Building Conservation Code compliance methods. The core of the course will focus on key components of the Work Area Method and its application. Attendees will learn to:

- determine the most appropriate compliance path,
- classify levels of alteration,
- apply requirements for Work Area Method-Level 2 alterations, and
- discern requirements for changes in occupancy.

Continuing education: The seminar is approved by



DLI for six hours of continuing education for certified building officials.

Cost: \$85 for each person. Payment must be made by credit card.

Registration: Visit www.dli.mn.gov/ccld/education.asp for dates and locations and to register for the seminar.

Additional educational opportunities include:

Annual Institute for Building Officials:

Jan. 4-19, 2017, <http://cce.umn.edu/annual-institute-for-building-officials>

2016 ICC Upper Great Plains Region III Educational Institute: Feb. 6-10, 2017, www.iccsafe.org/Training

Elections are coming soon ... are you registered to vote in Minnesota?



You can check to see if you are registered to vote in Minnesota at <https://mnvotes.sos.state.mn.us/VoterStatus.aspx>.

You can register to vote at <http://www.sos.state.mn.us/elections-voting/register-to-vote>.

Meetings

Schedule of upcoming board and council meetings

The following is a schedule of boards and councils that conduct meetings at DLI. To view meeting minutes, agendas and schedules for additional boards and councils, visit www.dli.mn.gov/Boards.asp.

Board of Electricity www.dli.mn.gov/Boe.asp

2016 meetings

- Oct. 25, 2016 (Rescheduled from Oct. 11, 2016)

2017 meetings

- Jan. 10, 2017
- April 11, 2017
- July 11, 2017
- Oct. 10, 2017

Board of High-Pressure Piping www.dli.mn.gov/Bohpps.asp

2016 meetings

- Oct. 13, 2016

2017 meetings

- Jan. 12, 2017
- April 13, 2017
- July 13, 2017
- Oct. 12, 2017

Construction Codes Advisory Council www.dli.mn.gov/Ccac.asp

2016 meetings

- Dec. 15, 2016

2017 meetings

- March 16, 2017
- June 15, 2017
- Sept. 21, 2017
- Dec. 21, 2017

Plumbing Board www.dli.mn.gov/Pb.asp

2016 meetings

- Oct. 18, 2016

2017 meetings

- Jan. 17, 2017
- April 18, 2017
- July 18, 2017
- Oct. 17, 2017

Meeting dates and times may change. Visit www.dli.mn.gov/Boards.asp for current listings.

CCLD Review is a quarterly publication of the Minnesota Department of Labor and Industry.

Receive email notification when an issue is available by [subscribing online](#).

Contact information

CCLD main contact info

Phone: (651) 284-5012
Toll-free: 1-800-657-3944
Fax: (651) 284-5749

Visit the [Contact Us](#) page

Licensing information

DLI.License@state.mn.us

Business/contractor licenses and bonds:

(651) 284-5034

(Including: electrical, HPP, plumbing, residential, manufactured structures, mechanical bonds, technology system, water conditioning)

Personal licenses and

certificates: (651) 284-5031

(Including: boiler engineers, electricians, plumbers, power limited technicians, pipefitters, unlicensed individuals, building officials)

Electrical information

Phone: (651) 284-5026

Fax: (651) 284-5749

DLI.Electricity@state.mn.us

Boiler, high-pressure piping, boats-for-hire inspection

Phone: (651) 284-5544

Fax: (651) 284-5737

DLI.Code@state.mn.us

Plumbing information

Phone: (651) 284-5063

Fax: (651) 284-5748

DLI.Plumbing@state.mn.us

License enforcement details

Phone: (651) 284-5069

Fax: (651) 284-5746

DLI.Contractor@state.mn.us

Contractor registration

Phone: (651) 284-5074

DLI.register@state.mn.us

CCLD staff changes: New employees and retirements

Elevator inspections

Gary Reeves retired July 5, 2016, from CCLD Elevator Inspections. He was hired in 2005 as the primary elevator inspector for all of southern Minnesota. Throughout his time at DLI his inspection area was narrowed down to Olmsted, Fillmore, Houston and Mower counties, with the majority of his work concentrated in the city of Rochester.

Reeves also helped train the department's newest elevator inspector, **Eric Ask**, as well as assist with periodic elevator inspections. Ask started July 6 in the Elevator Inspection unit. He joins the inspection group with 13 years of elevator-related experience, with a background in construction, service and repair.

Electrical inspections

Mark Hunter has joined the Electrical Inspection unit as the electrical area representative in east-central Minnesota (District 5). Hunter has more than 27 years of diverse experience in all facets of the electrical industry as an electrician, general foreman, electrical contractor, apprenticeship instructor and contract electrical inspector.

District 5 has been managed for the past 20 years by Electrical Area Representative **Michael Theisen**, who retired in April 2016.

For more information about all of CCLD's electrical area representatives see the map at www.dli.mn.gov/CCLD/PDF/eli_area_reps.pdf.

Awards



Pictured, left to right, are Patrick Talty, SMG general manager; Karen Gridley, CCLD accessibility specialist; Kevin Warren, chief operations officer, Minnesota Vikings; and Michelle Kelm-Helgen, MSFA chairwoman.

Staff recognized for accessibility work at U.S. Bank Stadium

Karen Gridley, CCLD's accessibility specialist, and Curt Wiehle, past CCLD accessibility specialist (now retired), were recently awarded certificates of appreciation from the Minnesota Sports Facilities Authority (MSFA) for their roles on the Minnesota Accessibility Advisory Committee (MAAC).

The committee provides guidance about incorporating increased accessible design features in new sports stadium facilities in the Twin Cities including the newly constructed U.S. Bank Stadium.

Now available

New and updated items available on DLI's website include:

Code Administration Manual

An updated version of DLI's Code Administration Manual is available at www.dli.mn.gov/CCLD/Administration.asp.

The manual was created to assist those new to the building code enforcement industry with administrating the Minnesota State Building Code. Code Administration Services staff are available to meet with building code officials to review delegation agreements, policies, procedures, plan review, the appeals process and more. Contact staff at www.dli.mn.gov/CCLD/Administration.asp.

Fire-retardant-treated wood fact sheet

Fire-retardant-treated wood (FRTW) can offer a cost-effective way to construct bigger and taller buildings without the expense of traditional masonry, but when does the building code permit FRTW?

A new fact sheet about FRTW, how it can be used and its requirements in the Minnesota State Building Code is available at www.dli.mn.gov/CCLD/PDF/fs_FRTW.pdf.

Contractors urged to keep insurance data updated

CCLD has implemented an online license renewal process for business licensees and asks that liability insurance information is submitted to the agency as soon as a policy is renewed or replaced.

Submit insurance, paperless renewal

With the new business renewal system, the only paperwork necessary to submit on an ongoing basis is a liability insurance certificate. In the past, CCLD asked for the insurance certificate only at renewal time. However, to make the license renewal process as smooth as possible, business licensees are asked to submit an updated liability insurance certificate as soon as the liability policy is renewed or replaced. Since most contractors' insurance policies are not synched to their license renewal, it is important for your insurance agent to submit an updated liability insurance certificate to CCLD when a policy is renewed or replaced.

If insurance information is provided to CCLD prior to the renewal period, business licensees are able to renew licenses online without submitting any additional paper documents.

How to submit insurance information

Insurance agents can use CCLD's certificate form (www.dli.mn.gov/CCLD/FormsCert.asp) or an ACORD form that has DLI listed as a certificate holder.

The insurance certificate can be emailed to DLI.license@state.mn.us, faxed to (651) 284-5743 or mailed to CCLD. It is important that the contractor's business name appears on the certificate

exactly as it appears on the contractor's license and business filing with the Minnesota Secretary of State.

Workers' compensation insurance

For changes to workers' compensation insurance coverage, complete and submit a workers' compensation insurance compliance form (www.dli.mn.gov/CCLD/FormsWC.asp). This form should also be emailed to DLI.license@state.mn.us, faxed to (651) 284-5743 or mailed to CCLD.

Enforcement actions

Residential building contractor fined \$12,000

Some recent [CCLD enforcement actions](#) include:

- A licensed White Bear Lake residential building contractor failed to reasonably supervise its agents, subcontractors or sales persons and performed in breach of contract; failed to reduce change orders to writing; and failed to pay subcontractors and suppliers. The contractor was censured and ordered to pay a \$12,000 penalty in addition to making payments to its subcontractors and suppliers.
- An unlicensed electrical contractor from Fargo, North Dakota, was found performing low voltage electrical work at a Moorhead, Minn., residence. Additionally the unlicensed contractor was advertising its services online. The contractor was ordered to cease and desist from the unlicensed activity and fined \$3,000.
- An unlicensed contractor from Minneapolis held himself out as a residential building contractor, offered plumbing and electrical services and falsely advertised that he was appropriately licensed. The contractor was ordered to cease and desist from all unlicensed activity and fined \$5,000.

Summaries of all final CCLD enforcement actions are available at www.dli.mn.gov/CCLD/Enforcement.asp. Questions about specific enforcement actions should be directed to (651) 284-5069 or DLI.contractor@state.mn.us.

Share your thoughts about water reuse in Minnesota

The Water Reuse Interagency Workgroup is requesting input about water reuse in Minnesota.

A Stakeholder Group that will provide feedback to the water reuse workgroup is preparing for its inaugural meeting, and organizers are requesting those with an interest in water reuse in Minnesota to provide their input.

Individuals and organizations that are not part of the Stakeholder Group are invited to provide input by email at health.water.reuse.mn@state.mn.us. The Stakeholder Group meetings are also open to the public.

This process is important and necessary as recommendations for changes in water reuse policy may affect Minnesota's public health, environment, infrastructure, water management system and regulatory framework.

The first Stakeholder Group meeting is Sept. 26, 2016, from 1:30 to 4:30 p.m. at the Minnesota Pollution Control Agency Board Room, 520 Lafayette Road, St. Paul.



More information

Learn more about this project, updates, meeting schedules and opportunities for input at www.health.state.mn.us/divs/eh/water/dwp_cwl/reuse/index.html.

A six-month workgroup progress report about the project is at www.health.state.mn.us/divs/eh/water/dwp_cwl/reuse/update060116.pdf.

Plumbing license

Master plumber licenses expire Dec. 31, 2016

All current master and restricted master plumber licenses expire Dec. 31, 2016. License holders will receive a yellow postcard from CCLD in October as a reminder of the renewal deadline.

CCLD encourages all plumbers to renew their license online. Online renewal is quick and easy and your license is renewed upon payment of the \$88 renewal fee. License renewals submitted after Dec. 31, 2016, will be assessed a late fee of \$37.50.

Continuing education

The required 16 hours of CCLD-approved continuing education (CE) for license renewal must be completed before attempting to renew your license. Renewing a license without completing CE can result in license suspension and a \$1,000 fine.

Of the 16 hours of CE, at least 12 hours must pertain to the State Plumbing Code and at least four hours must pertain to technical topics related to plumbing installations and equipment, the Minnesota State Building Code or the Minnesota statutes governing

plumbing work. No more than four hours can be taken online in each license period. CE course sponsors report attendance directly into our licensing system so you do not have to send us documentation of your attendance. Plumbers who have more than one type of license can apply their CE courses to all of their licenses – only the number of hours required for the license with the highest CE requirement must be fulfilled.

Medical gas installers

Medical gas installers certified by CCLD after Nov. 27, 2012, must take four hours of CE to renew certification. Approved CE courses taken to fulfill the medical gas renewal requirements may also be used to fulfill the plumber license requirements. A list of all approved CE courses is available at <http://secure.doli.state.mn.us/ccldcecourses/>.

Questions?

For help with questions about continuing education visit www.dli.mn.gov/CCLD/pe_ce.asp. You can also send an e-mail to DLI.license@state.mn.us or call us at (651) 284-5031.

Plumbing Board seeks comments about code changes

The Minnesota Plumbing Board is seeking comments about its proposed rule amendments to the State Plumbing Code.

The board published a Request for Comments in the May 23, 2016, edition of the State Register. Information about the rule amendments is available the Plumbing Board's Rulemaking Docket at www.dli.mn.gov/PDF/docket/4714_04403docket.pdf. Comments relating to the possible rule amendments may be submitted to the Plumbing Board in writing, as outlined in the docket.

Plumbing

Plumbing: Frequently asked questions and answers

Q. *Are duplex pumps required for a sump pump system that serves only school lab sinks?*

- A. Yes, for public use buildings where a sump pump system is necessary, duplex pumps are required. If one pump fails, the second pump is available until repairs are made. This requirement applies to all public use buildings including restaurants, coffee shops, salons, office buildings, hospitals, clinics, schools, grocery stores, auto shops, apartments and similar facilities.

Private residential buildings such as single-family homes do not require duplex pumps. See Minnesota Rules 4714.0710, Section 710.9, for more information about the design of sump pumps.

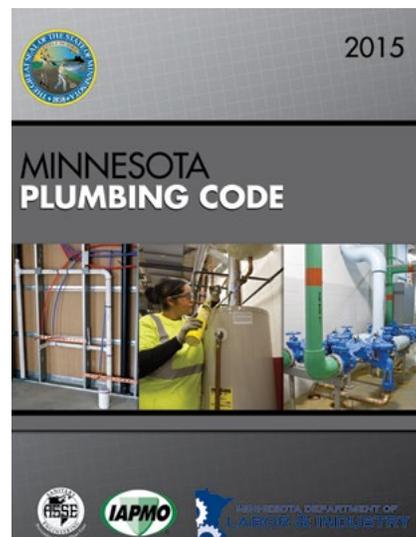
Q. *What does "lead free" mean in relation to plumbing products used in the water supply system?*

- A. Under current state and federal laws, all plumbing materials and products for use in potable water systems must meet the "lead-free" definition. This definition has been revised to mean not more than a weighted average of 0.25 percent lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings and fixtures. This includes materials used in water pipes, fittings, faucets and valves for potable building water supply and distribution applications including cold water, hot water, and hot water recirculation systems.

Solder and flux must not exceed 0.20 percent lead. Certified lead-free products are typically marked by a nationally recognized certification body. Contact the material or product manufacturer to verify compliance with the lead-free requirements.

Q. *What size pump is required for an elevator sump pump system? What size receptor is required?*

- A. The requirement for the pump capacity or drain is governed by the Minnesota Elevator Code, Chapter 1307 (incorporates ASME Standard A17.1-2010 by reference). The elevator code requires that elevators provided with firefighters' emergency operation be provided with a sump pump or drain with the capacity to remove a minimum of 50 gallons per minute (GPM) for each elevator.



Plumbing FAQs continue on page 7

Plumbing FAQs continued from Page 6

Because the pump can remove water at a flow rate of 50 GPM and under pressure, the plumbing drain design should include provisions to prevent overflow and overloading the building's drainage system. This is accomplished by doubling the drainage fixture units for GPM (see Minnesota Rules parts 4714.0710, Section 710.5 and 4714.0702, Section 702.3). A 4-inch receptor and a 4-inch drain may serve a sump pump system that serves one or two elevators. However, a 3-inch drain at a minimum slope of 0.25 inches-per-foot is acceptable for a sump pump system that serves one elevator if provisions are provided in the receptor to handle the surge or high-volume discharge.

Because the elevator sump pump is only used in case of a fire emergency to keep the elevator pit dry, it is reasonable to assume that when the elevator sump pump is in use, the other plumbing fixtures in the building are not, and the building is evacuated. Therefore, the sanitary drainage system must be sized to comparing the flow volume from the elevator pit during an emergency to the maximum flow calculated from the plumbing fixtures during normal use. The greater flow volume must be used as the basis for sizing.

Q. Minnesota Rules part 4714.0706, sections 706.3 and 706.4, require that connections from horizontal drainage lines or vertical drainage lines to other horizontal drainage lines must be made through a 45 degree wye branch, combination wye and one-eighth bend branches, or other "approved fittings of equivalent sweep." What would be considered "approved fittings of equivalent sweep?"

A. Plastic pipe:

- For plastic PVC or ABS drainage pipe, a long sweep quarter bend (pattern) fitting listed under ASTM standard D3311 is an acceptable equivalent sweep.

Hubless cast iron pipe:

- For hubless cast iron drainage pipe listed to ASTM Standard A-888 or CISPI 301, both long or short sweep fittings listed under both standards are an acceptable equivalent sweep.
- A plain quarter bend fitting of hubless cast iron pipe is not approved as an equivalent sweep.

Q. What heat transfer medium is approved for use in a single-wall heat exchanger?

- A. Minnesota Rules part 4714.0603, Subp. 2, Section 603.5.4.1(2) states heat transfer medium must be either:
1. potable water, or
 2. medium having a toxicity or class of 1 under the Clinical Toxicology of Commercial Products, Fifth Edition.

Except for potable water, CCLD is not aware of any commonly used heat transfer medium available listed to the toxicity or class of 1 under the Clinical Toxicology of Commercial Products, 5th Edition, for use in a single-wall heat exchanger.

Vehicles

Electrical contractor vehicles must be properly marked

Minnesota law requires that any vehicle used by a contractor while performing electrical work for which a contractor's license is required must have the contractor's name and license number affixed to the side of the vehicle.

View the Minnesota regulation for requirements about marking of contractor vehicles at <https://www.revisor.mn.gov/rules/?id=3800.3570>.

Learn about electronic plan review on Dec. 8

Open house scheduled to demonstrate ePlans, answer questions

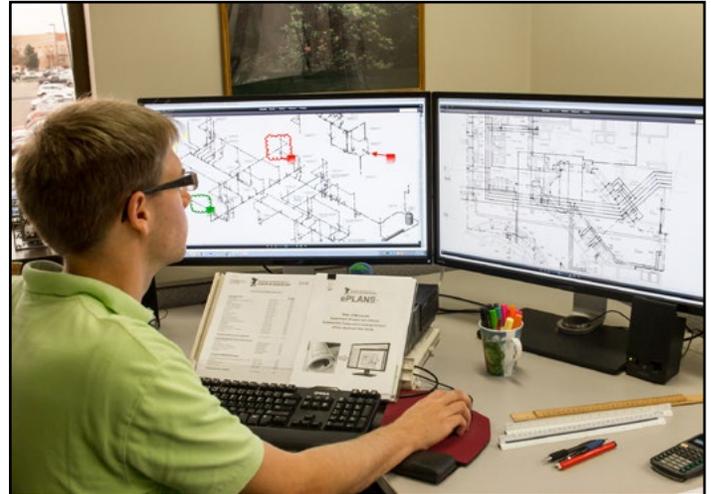
For the past several months, CCLD plan review staff have been using ePlans – electronic plan review technology – to review building and plumbing plans.

With ePlans, users can send plans to CCLD electronically anytime. Comments and plan revisions are returned to submitters electronically eliminating mailing and printing costs and saving time.

ePlans open house, instructions

CCLD will host an open house Dec. 8, 2016, at its St. Paul office to answer questions about ePlans and demonstrate the electronic plan review system. More details about the open house and instructions about how to use ePlans will be available in November at www.dli.mn.gov/CCLD.asp.

Many municipalities nationwide already use electronic plan review due to its ease of use and time savings. In Minnesota, a growing number of municipalities are taking advantage of the cost and time savings offered



ePlans – online plan review – is now in use. An open house about ePlans is Dec. 8, 2016, at CCLD’s St. Paul offices. More information will be available at www.dli.mn.gov/CCLD.asp.

by ePlans. There is no need for submitters to buy software; all that is needed is internet access. ePlans accepts more than 250 file types and files can be uploaded and reviewed from anywhere.

Electrical licensing

2016 NERA annual meeting hosted by CCLD in Duluth

On August 9-10, 2016, CCLD hosted the annual meeting of the National Electrical Reciprocal Alliance (NERA) in Duluth, Minn.

NERA includes representatives from every state that has a reciprocal journeyman electrician licensing agreement with at least one other state.

There are now 18 states represented in the group, which is almost half of all the states that administer electrical licensing statewide.

Discussions during the annual



DLI hosted the 2016 NERA annual meeting in August 2016. Scott McLellan, CCLD director and state building official, provided the opening remarks for the meeting.

meeting included:

- verification of journeyman exam applicant experience;
- continuing education requirements;
- the on-the-job ratio of

unlicensed workers

- (apprentices) to journeymen; and
- adoption of the 2017 National Electrical Code.

Adoption process started for 2017 National Electrical Code

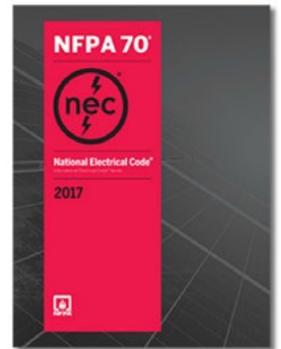
The Minnesota Board of Electricity has started the rulemaking process for adoption of the 2017 National Electrical Code (NEC), with an anticipated effective date of July 1, 2017.

The NEC – considered the minimum standard for electrical safety – has been published since 1897 and is revised every three years to keep up with advances in building technology.

The 2017 edition reflects a continuing growth in renewable power technology and includes rules for privately owned higher voltage power generation and distribution systems

as well as a new article for direct current microgrids.

Other revisions apply to arc flash hazard warnings and minimum space clearances for equipment to better align with the safe work practices in NFPA 70E, The Standard for Electrical Safety in the Workplace.



Read more about the Minnesota Board of Electricity at www.dli.mn.gov/Boe.asp.

» View the 2017 NEC online

Free access to the 2017 NEC is available online and code books are available for purchase at www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards?-mode=code&code=70&tab=editions.

Electrical maintenance

Registration required for maintenance work by employees

Employees may perform electrical maintenance work on their employer's property (Minnesota Statutes 326B.33) if the employer and employee are registered or licensed with CCLD.

This registration is valid for the maintenance of existing equipment only and requires the employer to either employ a licensed maintenance electrician or electrical engineer, or to make arrangements with an electrical contractor to be responsible for the maintenance work. Similar to other electrical licenses, an employer registration is valid for two years.

In addition to the employer's registration, the employees performing the electrical work must be licensed electricians or registered with CCLD as unlicensed electrical workers.

Similar registration requirements apply when an employer has employees who perform electrical construction or technology system work. Additional information and the employer registration packet is available at www.dli.mn.gov/CCLD/LicElectricalEmployer.asp.

School staff may be performing electrical work without required registration

There are more than 550 school districts in Minnesota whose employees perform electrical maintenance work, but fewer than 100 are properly registered to do so. DLI is actively working with school districts and health and safety consultants to bring more districts into compliance.

CCLD staff will be available at the Minnesota Educational Facility Management Professionals Convention on Sept. 29-30, 2016, to share information about requirements for district employees who perform electrical maintenance work.

Additionally, any school interested in the employer electrical maintenance program may contact DLI.Electricity@state.mn.us and staff will schedule a meeting, explain the requirements in detail, answer any questions and assist with the registration process.

While CCLD focuses on new employer registrations staff also monitor for expired employer registrations. Employer registration is a two-year program and when the registration expires, employees can no longer perform any electrical maintenance.

Electrical contractor: replacement of responsible person

Q. *What happens to the electrical or technology system contractor license in the event of resignation, termination or separation of responsible master electrician or power-limited technician?*

A. The contractor and responsible master electrician or power limited technician (PLT) are required to immediately notify CCLD upon the termination or separation.

If unable to acquire a replacement of the responsible master electrician or PLT within 30 days of the termination, the contractor's license is invalid and the contractor must cease performing electrical work and return the license.

Q. *What happens to the electrical or technology system contractor license in the event the responsible license holder fails to renew their personal license?*

A. If the responsible master or PLT for the contractor is an employee of the company and fails to renew their license, the contractor has 30 days to secure a properly licensed responsible individual.

If the responsible licensed person is an owner, partner, member, or officer of the company, then the contractor license is immediately invalid and the contractor must cease performing electrical work.

Upon renewal or reinstatement of the master electrician's or PLT's license, or acquiring a replacement responsible master electrician or PLT, the contractor may request reinstatement of the license.

Electrical inspection

Can in-floor heat be covered before electrical inspection?

Q. *Is an inspection of electric in-floor radiant heating required before the covering is installed?*

A. The code states that all electrical wiring is required to be inspected prior to concealment in any way. For example, trenches must be left open to verify adequate burial depth of cables and raceways and wiring within walls must be inspected before it is covered.

Regardless of voltage output, the floor inspection addresses the heating leads, non-heating leads and sensor wiring from the controller, through the wall cavity, and into the underfloor space. Whether the heat source is a single-cable type requiring particular spacing or a mat- or mesh-type product, the installation must be inspected prior to the application of the flooring material. The installation instructions and product listing information must also be available for the inspector to review.

The installation of electric floor heat is a licensed activity and must be performed by employees of a licensed electrical contractor.



Construction of state's largest solar project underway

Community Energy's North Star Solar Project is currently Minnesota's largest solar photovoltaic (PV) project under construction.

The massive project covers 800 acres in Chisago County near North Branch in east central Minnesota, and based on national averages, will produce enough electricity to power 15,000 homes (100 MW).

Despite a rather wet, hot and humid summer construction season, the project has been moving along at a rapid pace and is about 60-percent complete.

When finished, the site will include approximately 440,000 individual solar PV modules converting sunlight into electrical energy. This project utilizes linear sun-tracking technology to maximize energy production throughout the day.

In addition to the large quantities of solar PV modules, combiner boxes, inverter equipment skids and miles of electrical wiring, a high-voltage substation is also being constructed to connect the solar PV generating plant to the electrical grid.



Minnesota's largest solar photovoltaic project – Community Energy's North Star Solar Project – is about 60-percent complete. When finished, the site will produce enough electricity to power 15,000 homes (100MW).

CCLD's electrical staff, electrical area representatives and contract electrical inspectors have been involved in this project from the very beginning and are looking forward to the completion of this remarkable project.

CCLD has solar resources available

Due to the rapid growth of solar PV construction activity in Minnesota, CCLD's Solar Resources page is continuously being updated with new information. A recent addition includes information about standardized structural load tables for residential buildings. Check back frequently for more updated information. View the Solar Resources page at www.dli.mn.gov/CCLD/ElectricalSolar.asp.

Staff performed hundreds of electrical inspections at stadium



CCLD would like to extend its appreciation to contract electrical inspector Patrick McMullen and electrical area representative Tom Tobias for their hard work and dedication at the new U.S. Bank Stadium.

Throughout a 30-month construction timeline, McMullen and Tobias were responsible for administering electrical licensing regulations and performing hundreds of electrical inspections on behalf of all of the electrical and technology contractors and hundreds of electrical workers. Thank you for a job well done.