



CODE WORKS!

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Summer 2014

WORDS FROM DIRECTOR IRVIN J. POKE, AIA

Congratulations to Dave Viges, director, Office of Management Services in the Bureau of Construction Codes, for being named an Accela Engage 2014 Customer Award Winner. Dave was presented the 2014 Trendsetter Award at the Accela Engage 2014 User Conference by Maury Blackman, Accela's President and CEO, on August 4 in San Diego, CA. LARA Deputy Director Shelly Edgerton also attended to see Dave and the State of Michigan recognized.



In its announcement of Dave receiving the 2014 Trendsetter Award, Accela stated, "As the first state in the country to offer permits and licenses online, the State of Michigan has adopted a policy of citizen engagement that has been tremendously successful. Today, the State is averaging over 75,000 permits and renewals annually. David Viges, Director, Office of Management Services, has been a key champion of Accela and is leading the initiative to move the State's services to the cloud. Viges' push toward the State's early adoption of these solutions has served to provide a greater level of service to customers while streamlining workflow and enhancing productivity."

Accela's Engage 2014 Customer Awards are given to honor government agencies committed to engaging with citizens, increasing transparency, and making the communities they serve more business-friendly.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS APPOINTMENT

Please join the Bureau of Construction Codes in congratulating Calvin Rogler, chief of the Elevator Division, on his appointment as vice chair of the American Society of Mechanical Engineers' (ASME) A17 Elevators and Escalators Codes and Standards Committee. This is a three-year appointment. The vice chair assists the chair with the agenda for the main committee meetings, handles discussion and votes on interpretation requests, and accepts working committee reports.

ASME is a professional association that promotes the art, science, and practice of multidisciplinary engineering and sciences around the globe via continuing education, training, codes and standards, research, conferences, publications, and professional development. The A17 Elevators and Escalators committee is charged with developing, maintaining, and interpreting safety codes and standards covering the design, construction, installation, operation, inspection, testing, maintenance, alteration, and repair of elevators, dumbwaiters, escalators, moving walks, and materials lifts.

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ELEVATOR DIVISION

ELEVATOR RULES CHANGE

**By Cal Rogler, Chief
Elevator Division**

The 2010 Michigan Elevator Rules became effective July 11, 2014. As such, all elevating devices in Michigan must meet the new requirements. The new rule set is available on the Elevator Safety Division webpage at www.michigan.gov/bcc under Administrative Rules & Public Acts, “2010 Michigan Elevator Rules (Print Version)” in PDF format. They may be downloaded free of charge.

The new Michigan elevator rule set adopts the following standards;

- American Society of Mechanical Engineers, Safety Code for Elevators and Escalators, ASME A17.1-2010/CSA B44-10.
- American Society of Mechanical Engineers, Safety Standards for Platform Lifts and Stairway Chairlifts, ASME A18.1-2011.
- American Society of Mechanical Engineers, Safety Standard for Belt Manlifts, ASME A90.1-2009.
- American Society of Mechanical Engineers, Standard for Elevator Suspension, Compensation, and Governor Systems, ASME A17.6-2010.
- American Society of Mechanical Engineers, Performance-based safety code for elevators and escalators, ASME A17.7-2007/CSA B44.7-07.
- American National Standard, Safety Requirements for Personnel Hoists and Employee Elevators for Construction and Demolition Operations, ANSI A10.4-2007.

These editions of the standards are currently available from the American Society of Mechanical Engineers, (800) 843-2763, or Global Engineering, (877) 413-5184. Be sure to specify the correct edition you are requesting.

One rather notable change in the new ASME A17.1-2010 is found in Section 2.27.1.1 Emergency Communications. Specifically, the modification is found in Section 2.27.1.1.6. This section now requires the two-way communication means within the car to include a means to verify operability of the telephone line. This verification of the telephone line shall be automatically performed at least on a daily basis and shall not require activation of the two-way communications link(s). If the verification means determines the telephone line or equivalent means is not functional, an audible and illuminated visual signal shall be activated. The signal shall be labeled “ELEVATOR COMMUNICATIONS FAILURE” in red letters a minimum of 0.25 inches high, and located at the designated landing in the vicinity of the “FIRE RECALL” switch and visible to elevator user(s). The audible signal must sound at least once every 30 seconds with a minimum duration of half a second.

There are several more new requirements listed with which the two-way communications must also comply. We suggest you review this section carefully to assure emergency communications comply with the new requirements.

If you have any questions and would like to discuss any of the new requirements, please contact the Elevator Safety Division at (517) 241-9337 or elevsafety@michigan.gov.

BUILDING DIVISION

WORK EXEMPT FROM PERMITS

**By Larry Lehman, Chief
Building Division**

Section 105.2 of the 2009 Michigan Building and Rehabilitation codes, and R105.2 of the 2009 Michigan Residential Code, provide exemptions from building, electrical, mechanical, and plumbing permits. These sections of the codes were part of the 2000 Michigan single state code adoption process effective July 31, 2001, and have been subsequently adopted every code cycle since then. There are some changes made as Michigan amendments to the International Residential and Building Codes.

Section 105.2.2 of the 2009 Michigan Building and Rehabilitation codes, and R105.2.2 of the 2009 Michigan Residential Code, also provide guidance when application or notice to the building official is not required for ordinary repairs to structures.

The bureau has received numerous inquiries relative to the applicability of local zoning ordinances that require permits where the state code exempts the installation from permits. Section 8a(1) of the Stille-DeRossett-Hale Single State Construction Code Act, 1972 PA 230, provides for a single set of construction codes that are applicable throughout the state without local modification. Therefore, permits are not required when specifically exempted by Section 105.2 of the Michigan Building and Rehabilitation codes, and Section R105.2 of the Michigan Residential Code.

Zoning regulations that are not inconsistent with the act, such as the location of buildings to lot lines, may be enforced through local zoning ordinances, but not by requiring a building permit.

Questions may be directed to the Building Division at (517) 241-9317 or bccbldg2@michigan.gov.

MECHANICAL DIVISION

DO 1- AND 2-FAMILY DWELLINGS REQUIRE MECHANICAL VENTILATION?

**By Matthew Gay, Mechanical Inspector
Mechanical Division**

The Mechanical Division is often asked: Do 1- and 2-family dwellings require mechanical ventilation? This article will examine the Michigan Residential Code to provide a definitive answer to the question.

Section R303.1 of the 2009 Michigan Residential Code states:

All habitable rooms shall have an aggregate glazing area of not less than 8 percent of the floor area of such rooms. Natural ventilation shall be through windows, doors, louvers or other approved openings to the outdoor air. Such openings shall be provided with ready access or shall otherwise be readily controllable by the building occupants. The minimum openable floor area to the outdoors shall be 4 percent of the floor area being ventilated.

Other than the above section, the Michigan Residential Code is silent on ventilation for habitable rooms. The code requires a minimum amount of glazing for the specific purposes of light and ventilation. If the design complies with this provision there are no requirements for additional mechanical ventilation.

Questions may be directed to the Mechanical Division at (517) 241-9325 or bccmech@michigan.gov.

BOILER DIVISION

BOILERS WHICH HAVE BEEN FLOODED

**By Mark Moore, Chief
Boiler Division**

With the heavy snowfall this past winter and a rainy spring there exists the possibility your boiler or its controls have either partially or fully been under water. When a flooding condition has occurred with a boiler you must follow one of these two options:

1. Replace the boiler; or
2. Thoroughly service the boiler using the following minimal guidelines:
 - a. Replace all controls, gas valves, and electrical wiring on the boiler. Once an electrical control has been wet, it poses a fire and electrical shock risk and must be replaced. Gas valves are no longer assured to provide a safe shut-off to the gas, potentially causing gas leaks, fires and explosions. Even mechanical devices such as safety valves and low water cut offs are subject to corrosion and should be replaced.
 - b. Thoroughly inspect all burner tubes, gas piping, manifolds, orifices, and flues for signs of rust and or sediment. All insulation that has become damaged should be replaced, including the boiler's jacket and refractory. Once the insulation becomes water damaged it may deteriorate, reducing its insulating value and causing a potential fire hazard, not to mention the health risk of mold and bacteria developing.

There is no easy way to know which components may be damaged. Even if the control was not completely submerged water can get inside due to splashing, wicking action, or moisture in the air.

It is always the best course of action to contact a licensed mechanical contractor to make the evaluation and control replacement. Once the controls are replaced the contractor will conduct a control and safety device test (CSD-1) to insure the boiler is operating safely and efficiently to its original design.

Remember, if any part of the boiler, burner, or controls have been sprayed or submerged under water, either partially or fully, **DO NOT** attempt to operate the boiler until all affected parts have been replaced and tested for proper adjustment and reliable safe operation.

Please contact the Boiler Division at (517) 241-9334 or bccblr@michigan.gov with any questions.

PLAN REVIEW DIVISION

THE PLAN REVIEW & BUILDING DIVISION

**By Todd Y. Cordill, NCARB, Chief
Plan Review & Building Division**

Effective Monday, June 23, 2014, the Plan Review and Building Divisions of the bureau were combined and re-named the Plan Review and Building Division. The work responsibilities and personnel remain the same with one exception. In lieu of having two divisions with separate division chiefs, there is now one division with one division chief. This change was made upon the retirement of Larry Lehman as Chief of the Building Division. Mr. Lehman's last day with the bureau was Friday, June 20. I wish him well in his retirement from state service as he and I worked well together as respective division chiefs.

The contact information for the two work areas of the division remains unchanged. Charles Curtis continues as assistant chief over building area functions and Stan Skopek continues as assistant chief over plan review area functions. If you have any questions or comments regarding this matter, please contact the division via telephone at either (517) 241-9328 (plan review) or (517) 241-9317 (building). You may also contact the division via email at bccplanreviewcodemail@michigan.gov or bccbldg2@michigan.gov.

ELECTRICAL DIVISION

THE PROPER USE OF ELECTRICAL FITTINGS

By Dan O'Donnell, Chief

Electrical Division

Electrical installations often require the transitioning from one type of wiring method to another. The proper use of fittings, connectors, and couplings may have a direct effect on the electrical continuity of the installation. This may be especially true in damp or wet locations where corrosion may be more pervasive. Electrical fittings are evaluated and listed for specific applications and should be used only for the application for which they are approved. The UL White Book is an excellent source of information on the proper use of electrical fittings. The White Book specifies the conditions for which electrical fittings have been evaluated and can assist electrical contractors and code officials in assuring that the proper fittings are being used for a specific application.

A common installation practice is the use of a steel or aluminum coupling to transition from a conduit raceway system to a flexible wiring method at a piece of equipment. Most connectors manufactured for use with a flexible wiring method are evaluated for use with a locknut only. The use of a coupling in conjunction with a flex connector may not be code compliant. Several manufacturers of electrical fittings provide devices in trade sizes up to one inch that are listed and approved for the application. There are several ways to accomplish the transition when the installation involves larger conduit systems including fittings or junction boxes that would facilitate the transition in an approved manner.

The proper use of all components in an electrical system can help prevent damage to the equipment as well as help protect those that may use or come in contact with the equipment. Take the time to do the proper research regarding fittings used in electrical systems and use them for the purpose for which they were approved.

Questions may be directed to the Electrical Division at (517) 241-9320 or bccelec@michigan.gov.

ELECTRICAL DIVISION

2011 ELECTRICAL CODE UPDATE CLASSES

By Dan O'Donnell, Chief

Electrical Division

Just a reminder that an approved 2011 code update course is required for all license renewals issued by the Electrical Division for 2015. There are more than 165 approved 2011 code update courses currently listed on the bureau's website at www.michigan.gov/bcc. Click on "Divisions" then "Electrical Division" and scroll down to "Examination & Licensing Information." If you passed an examination given by the department on the 2011 code and received your license a 2011 code update course is not required for you to renew your 2015 license. The Electrical Division encourages all licensees to complete their code update early to avoid a delay in processing their 2015 license renewal.

MICHIGAN CODES & RULES CURRENTLY IN EFFECT

2013 Boiler Rules	12/02/2013
2009 Building/Residential Codes (Part 4)	03/09/2011
Building Officials, Plan Reviewers, and Inspectors	04/24/2013
2011 Electrical Code (Part 8)	07/01/2013
2010 Elevator Safety - General	07/11/2014
Manufactured Housing General Rules	09/02/2008
2012 Mechanical Code	09/27/2013
2012 Plumbing Code (Part 7)	01/17/2014
2009 Rehabilitation Code	03/09/2011
State Boundary Commission	07/01/2013
Subdivisions of Land	06/16/2008
Survey and Remonumentation General Rules	06/21/2013
2009 Uniform Energy Code	03/09/2011

FOR CODE/RULE UPDATES - Visit [BCC's website](http://www.michigan.gov/bcc) to monitor updates on code review processes.

OFFICE OF LAND SURVEY AND REMONUMENTATION

2014 PA 166, AMENDMENTS TO THE STATE SURVEY AND REMONUMENTATION ACT

By Chris Beland, P.S., Director

Office of Land Survey and Remonumentation

Senate Bill 472, which amended the State Survey and Remonumentation Act (SSRA), 1990 PA 345, passed the House and Senate unanimously, and became 2014 PA 166 with immediate effect when signed on June 12, 2014.

Generally, the amendments to the SSRA expand the uses of the State Survey and Remonumentation Fund and reinstate the State Survey and Remonumentation Commission as an advisory organization to the Department of Licensing and Regulatory Affairs.

The bill was introduced in September of 2013 by Senator Walker. Public Act 166 amends the SSRA in the following ways:

- Re-establishes the State Survey and Remonumentation Commission as an advisory panel to the department
- Increases the commission's membership from five to seven, consisting of four professional surveyors, one grant administrator and two representatives from the general public
- Requires the employee in direct charge of the State Survey and Remonumentation Section in the department be a licensed professional surveyor
- Requires the department to coordinate memoranda of understanding with other state, federal, and local agencies to carry out the activities necessary, incidental, or appropriate to promotion of the act
- Clarifies and provides for a consistent and equitable distribution of program funds by:
 - o Specifying the minimal amount of funding required to be distributed to a county by differentiating the amounts based on whether the county is working under its monumentation and remonumentation plan or its perpetual monument maintenance plan, they will receive at least 40% of collections or 20% of collections, respectively
 - o No longer allowing a county to expedite its county plan
- Requires a county plan to include geodetic survey work for each corner and allows for a county plan to include the extension, densification, upgrade, and maintenance of active and passive geodetic control stations
- Requires direct oversight by the county by requiring the county board of commissioners to appoint a county representative, a county grant administrator, and county peer review group members to represent the county's interest and oversee the county program

Since 2014 PA 166 was given immediate effect, changes to the SSRA directly impact grant operations and how counties can use SSRA funds after June 12, 2014. The department is communicating with the counties to provide guidance on the impact the amended act has on their grant operations.

Questions may be addressed to the Office of Land Survey and Remonumentation at (517) 241-6321 or bccolsr@michigan.gov.

PLUMBING DIVISION

ENFORCEMENT OF THE 2012 MICHIGAN PLUMBING CODE

By Joe Madziar, Chief
Plumbing Division

The 2012 edition of the Michigan Plumbing Code went into effect on January 17, 2014. With the adoption of the new code edition, journey and master plumbers must meet the code update requirements of the State Plumbing Act, 2002 PA 733. This update course must be completed within 12 months after the effective date of a new code edition, as a condition for the renewal of their license. If an individual fails to take the course by January 17, 2015, they will not receive a renewal for their license at the next license renewal time, and the license will be put on hold.

The names and contact information for approved instructors for the 2012 Plumbing Code Update Course can be found at www.michigan.gov/bcc. When the site opens, click Divisions, then Plumbing Division. The instructor list can be found under "Examination & Licensing Information." The licensing examinations will be updated to the 2012 code edition for the September exams.

Listed below are some of the major changes to the 2012 Michigan Plumbing Code. There are many more changes than are listed. The remainder of the changes will be addressed at the code update class.

- Section 301.3 Connections to drainage system. Bathtubs, showers, lavatories, clothes washer, and laundry trays do not have to discharge into the sanitary drain system if they discharge to an approved gray water retention system. Gray water may only be used for flushing water closets and urinals or for subsurface landscape irrigation.
- Section 303.4 Third-party certification. All plumbing products now require listing by a third-party certifier. These listings are to assure that all products are manufactured to the referenced standards.
- Table 403.1 Minimum number of required plumbing fixtures. Footnote "g" has been added to state a service sink is no longer required for businesses and mercantile occupancies with an occupant load of 15 or fewer.
- Section 416.5 Tempered water for public hand-washing facilities. This sections has been changed to state that section 607.1 should be used to determine where "tempered water" is required. In section 607.1 (2) (a) through (h) is the list of where tempered water is required.
- Section 607.2 Hot or tempered water supply to fixtures. This section now limits the distance from a fixture that requires hot or tempered water, to the source, from 100 to 50 feet. A large amount of water and energy is wasted while running the water waiting for heated water to get to the faucet in use.
- Chapter 9 Vents. The entire chapter on venting has been reorganized to present the main sections in a more logical order. There have been no changes to the technical content contained within the sections.
- Section 917 Single Stack Vent System. This section was added to address the requirements of the code for a single stack venting method. This method of venting will be very useful for multi-story buildings.

If you have any questions concerning the code update course or changes to the code please contact Joseph T. Madziar, Chief, Plumbing Division at (517) 241-9330 or bccplbg@michigan.gov.

Providing for Michigan's Safety in the Built Environment



BCC Contact Information

TELEPHONE NUMBERS:

Administration (517) 241-9302
 Office of Administrative Services (517) 335-2972
 Office of Management Services (517) 241-9313
 Boiler Division (517) 241-9334
 Plan Review & Building Division
 Act 54 Registration (517) 241-9317
 Building (517) 241-9317
 Plan Review (517) 241-9328
 Electrical Division (517) 241-9320
 Elevator Safety Division (517) 241-9337
 Mechanical Division (517) 241-9325
 Office of Land Survey & Remonumentation (517) 241-6321
 Plumbing Division (517) 241-9330

FACSIMILE NUMBERS:

Administration & Office of Administrative Services (517) 241-9570
 Office of Management Svcs, & Plumbing Division (517) 373-8547
 Building, Electrical, Mechanical, Plan Review (517) 241-9308
 Office of Land Survey & Remonumentation, Elevator Safety & Boiler Divisions (517) 241-6301

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 Office of Administrative Services - bccoas@michigan.gov
 Office of Management Services - bccpermits@michigan.gov
 Boiler Division - bccblr@michigan.gov
 Plan Review & Building Division
 Building - bccbldg2@michigan.gov
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 Electrical Division - bcelec@michigan.gov
 Elevator Division - elevsafety@michigan.gov
 Mechanical Division - bccmech@michigan.gov
 Office of Land Survey & Remonumentation - bccolsr@michigan.gov
 Plumbing Division - bccplbg@michigan.gov



2014 Board and Commission Meetings

<u>MEETING</u>	<u>DATE</u>	<u>TIME</u>	<u>LOCATION</u>
Barrier Free Design Board	Jan 17, Mar 21, May 16, July 18, Sept 19, Nov 21	9:30 am	Okemos Conf Room 3
Board of Boiler Rules	Mar 11, June 10, Sept 9, Dec 9	9:30 am	Okemos Conf Room 3
Construction Code Commission	Jan 8, Apr 2, July 9, Oct 1	9:30 am	Okemos Conf Room 3
Electrical Administrative Board	Feb 20, May 22, Aug 7, Nov 6	9:30 am	Okemos Conf Room 3
Elevator Safety Board	Jan 24, Mar 28, June 6, Aug 22, Nov 7	9:30 am	Okemos Conf Room 3
Manufactured Housing Commission	March 19, June 18, Sept 17, Dec 17	10:00 am	Okemos Conf Room 3
Board of Mechanical Rules	Feb 12, May 14, Aug 20, Nov 26	9:00 am	Okemos Conf Room 3
State Boundary Commission	Feb 5, Apr 16, June 11, Aug 13, Oct 8, Dec 10	1:30 pm	Okemos Conf Room 3
State Plumbing Board	Feb 25, June 3, July 16, Sept 16, Dec 2	10:00 am	Okemos Conf Room 3

Dates and times are subject to change. Visit the [BCC website](http://www.michigan.gov/bcc) for updates.

ATTENTION READERS!

If you know of an organization or individual that would benefit from the information posted in BCC's newsletter, please direct them to our website at www.michigan.gov/bcc. Under the "Publications, Bulletins & Advisories" heading, click on the Code Works! link for more information on how to subscribe and receive an electronic notification of when each quarterly newsletter is posted.

2014 License Examination Dates

<u>EXAMINATION</u>	<u>DATE</u>	<u>LOCATION</u>	<u>DEADLINE</u>
Boiler Installer and Repairer	Mar 5 & 6	Okemos	Feb 7
	June 4 & 5	Okemos	May 9
	Sept 3 & 4	Okemos	Aug 8
	Dec 3 & 4	Okemos	Nov 7
Fire Alarm Spec. Tech./Sign Spec.	Mar 18	Lansing	Feb 18
	July 15	Lansing	June 17
	Nov 13	Lansing	Oct 14
Electrical - Journeyman	Feb 26	Lansing	Jan 29
	May 29	Lansing	May 1
	Aug 14	Lansing	July 17
	Sept 16	Escanaba	Aug 18
	Nov 19	Lansing	Oct 22
Electrical - Master	Feb 26	Lansing	Jan 29
	May 29	Lansing	May 1
	Aug 14	Lansing	July 17
	Sept 16	Escanaba	Aug 18
Electrical - Contractor	Nov 19	Lansing	Oct 22
	Jan 14	Lansing	Dec 11
	Mar 18	Lansing	Feb 18
	May 13	Lansing	Apr 15
	July 15	Lansing	June 17
	Sept 16	Escanaba	Aug 18
Elevator Contractor/Journeyperson Certificate of Competency	Sept 23	Lansing	Aug 26
	Nov 13	Lansing	Oct 14
	Jan 24	Okemos	Dec 27
	Mar 28	Okemos	Feb 28
	June 6	Okemos	May 10
Mechanical Contractor	Aug 22	Okemos	July 25
	Nov	Okemos	Oct 10
	Mar 11	Lansing	Feb 7
	June 10	Lansing	May 9
Plumbing - Contractor	Sept 9	Lansing	Aug 8
	Dec 9	Lansing	Nov 7
	Mar 26	East Lansing	
	June 25	East Lansing	
Plumbing - Master and Journey	July 17	Escanaba	
	Sept 24	East Lansing	
	Dec 17	East Lansing	
	Feb 26	East Lansing	
	June 4	East Lansing	
	July 17	Escanaba	
	Sept 17	East Lansing	
	Dec 3	East Lansing	

BCC ONLINE SERVICES

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Dates and times are subject to change. Visit the [BCC website](#) for updates.

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