

# CSI - Ohio

The Common Sense Initiative

## Business Impact Analysis

Agency Name: Ohio Board of Building Standards

Regulation/Package Title: 2014 National Electrical Code

Rule Number(s): 4101:1-35-01, 4101:2-15-01, 4101:3-13-01

Date: April 18, 2014

**Rule Type:**

New

Amended

5-Year Review

Rescinded

The Common Sense Initiative was established by Executive Order 2011-01K and placed within the Office of the Lieutenant Governor. Under the CSI Initiative, agencies should balance the critical objectives of all regulations with the costs of compliance by the regulated parties. Agencies should promote transparency, consistency, predictability, and flexibility in regulatory activities. Agencies should prioritize compliance over punishment, and to that end, should utilize plain language in the development of regulations.

**Regulatory Intent**

1. Please briefly describe the draft regulation in plain language.

*Please include the key provisions of the regulation as well as any proposed amendments.*

The Ohio Board of Building Standards (Board) proposes to amend Ohio Administrative Code (OAC) Rules as follows:

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4101:1-35-01 to update the NFPA 70 standard in the Ohio Building Code to the 2014 edition for non-residential buildings as a result of approved Petition #13-004, to add “residential” to the title of ASHRAE 90.1, and list TIA 10-4 and TIA 10-5 to the NFPA 72 standard to clarify the intent of the low frequency alarm requirements for fire alarm and emergency alarm systems and smoke alarms.

4101:2-15-01 to update the NFPA 70 standard in the Ohio Mechanical Code to the 2014 edition for non-residential buildings as a result of approved Petition #13-004 and to list TIA 10-4 and TIA 10-5 to the NFPA 72 standard to clarify the intent of the low frequency alarm requirements for fire alarm and emergency alarm systems and smoke alarms.

4101:3-13-01 to update the NFPA 70 standard in the Ohio Plumbing Code to the 2014 edition for non-residential buildings as a result of approved Petition #13-004.

**2. Please list the Ohio statute authorizing the Agency to adopt this regulation.**

Revised Code § 3781.10: <http://codes.ohio.gov/orc/3781.10>

Revised Code § 3781.11: <http://codes.ohio.gov/orc/3781.11>

**3. Does the regulation implement a federal requirement? Is the proposed regulation being adopted or amended to enable the state to obtain or maintain approval to administer and enforce a federal law or to participate in a federal program?**

*If yes, please briefly explain the source and substance of the federal requirement.*

No.

**4. If the regulation includes provisions not specifically required by the federal government, please explain the rationale for exceeding the federal requirement.**

Not applicable.

**5. What is the public purpose for this regulation (i.e., why does the Agency feel that there needs to be any regulation in this area at all)?**

Revised Code § 3781.10 directs the Board to “formulate and adopt rules governing the erection, construction, repair, alteration and maintenance of all buildings specified in section 3781.06 of the Revised Code...” Additionally, Revised Code 3781.06 provides:

*Any building that may be used as a place of resort, assembly, education, entertainment, lodging, dwelling, trade, manufacture, repair, storage, traffic, or occupancy by the public, any residential building, and all other buildings or parts and appurtenances of those buildings erected within this state, shall be so constructed, erected, equipped, and maintained that they shall be safe and sanitary for their intended use and occupancy.*

This statute defines safe and sanitary as follows:

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*“Safe,” with respect to a building, means it is free from danger or hazard to the life, safety, health, or welfare of persons occupying or frequenting it, or of the public and from danger of settlement, movement, disintegration, or collapse, whether such danger arises from the methods or materials of its construction or from equipment installed therein, for the purpose of lighting, heating, the transmission or utilization of electric current, or from its location or otherwise.*

*“Sanitary,” with respect to a building, means it is free from danger or hazard to the health of persons occupying or frequenting it or to that of the public, if such danger arises from the method or materials of its construction or from any equipment installed therein, for the purpose of lighting, heating, ventilating, or plumbing.*

The Ohio Building Code sets forth the construction standards for nonresidential buildings in the State of Ohio to ensure that they are safe and sanitary. Additionally, Revised Code § 3781.01 provides that local governments may not adopt regulations that conflict with the Board’s rules to facilitate the uniform application of the standards.

Revised Code 3781.11 lists conditions that rules of the Board must address, including:

- (1) For nonresidential buildings, provide uniform minimum standards and requirements, and for residential buildings, provide standards and requirements that are uniform throughout the state, for construction and construction materials, including construction of industrialized units, to make residential and nonresidential buildings safe and sanitary as defined in section 3781.06 of the Revised Code;
- (2) Formulate such standards and requirements, so far as may be practicable, in terms of performance objectives, so as to make adequate performance for the use intended the test of acceptability;
- (3) Permit, to the fullest extent feasible, the use of materials and technical methods, devices, and improvements, including the use of industrialized units which tend to reduce the cost of construction and erection without affecting minimum requirements for the health, safety, and security of the occupants or users of buildings or industrialized units and without preferential treatment of types or classes of materials or products or methods of construction;
- (4) Encourage, so far as may be practicable, the standardization of construction practices, methods, equipment, material, and techniques, including methods employed to produce industrialized units;

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**6. How will the Agency measure the success of this regulation in terms of outputs and/or outcomes?**

The enforcement of these rules will be implemented by certified township, city, and county building departments. Rule 4101:1-1-01 lays out the administrative procedures certified building departments must follow to implement the substantive requirements of these rules to determine compliance. These provisions require a builder or owner to make application to a building department to obtain an approval to build (permit). As part of this application the owner must submit sufficient information and/or construction documents for the building official/plans examiner to determine whether the proposed work complies with the code. After the builder or owner obtains the approval (permit), construction may commence and the building department inspectors will inspect the construction to ensure that the work conforms with the original approval. Rule 4101:1-1-01 § 105.2 provides that in the absence of fraud or a serious safety or sanitation hazard, any non-residential structure built in accordance with approved plans shall be conclusively presumed to comply with these rules. The Board requires that certified nonresidential building departments submit an annual yearly operational report which lists the following information: current employees and their certifications, total number of permits issued during the year for each type of occupancy, total number of inspections made, the total value of construction, and the total number of appeals of the code requested by a builder or owner during the year.

**Development of the Regulation**

**7. Please list the stakeholders included by the Agency in the development or initial review of the draft regulation.**

*If applicable, please include the date and medium by which the stakeholders were initially contacted.*

These rules were previously reviewed by the Common Sense Initiative (CSI) Office. On October 31, 2013, the CSI Office issued a memorandum making no recommendation regarding rules 4101:1-35-01 and 4101:2-15-01 and concluded that the Board should proceed with formal rule filing with the Joint Committee on Agency Rule Review (JCARR). Also, on October 31, 2012 and January 9, 2014, the CSI Office issued a memorandum making no recommendation regarding rule 4101:3-13-01 and concluded that the Board should proceed with formal rule filing with the JCARR.

On October 25, 2013, the Board received Petition 13-004 from the Ohio Electrical Coalition requesting adoption the 2014 National Electrical Code (NEC) for non-residential buildings accompanied by numerous letters of support and supporting documentation. Petition 13-004, letters of support, and supporting documentation are attached as Exhibit A.

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National Fire Protection Association (NFPA) Regional Electrical Code Specialist Tim McClintock attended the November 18, 2013 Code Committee Meeting and gave a presentation on the major changes included in the 2014 NEC. At its meeting on December 5, 2013, the Code Committee recommended to the Board that it approve Petition 2013-004 and initiate the rule-making process.

On February 11, 2014, the Board sent an email to all agency stakeholders informing them of a scheduled stakeholder meeting on March 14, 2014 to hear comments and respond to questions on these rules. The email and stakeholder distribution list are attached as Exhibit B. The notice summarized the proposed amendments and also informed stakeholders that they if they could not attend the stakeholder meeting, they could submit questions or comments via email or regular mail by March 28, 2014. On March 14, the Board conducted a stakeholder meeting on the proposed rules between 1:00 PM and 3:00 PM and the following individuals attended: Nathaniel Jonhenry, Squire Sanders, Michael Boso, OBOA, Bill Felger, Grove City Building Department, Dennis Coffey, Grove City Building Department, DeWayne Jenkins, SW IAEI & City of Kettering, Don Iverson, NEMA, Tom Moore, Ohio Chapter IAEI, Steve Lipster, Ohio Electrical Training Directors Assoc, Richard Lecher, IBI, Thomas Domitrovich, Eaton Corp, Nicholas Montan, Tuscarawas Co, and Mike Chinn, City of Grove City. The stakeholder meeting agenda and material distributed at the meeting are attached as Exhibit C. NFPA document *2014 NEC Summary of Changes* was also distributed at the stakeholder meeting by permission. It is not included in Exhibit C but is available for review upon request.

**8. What input was provided by the stakeholders, and how did that input affect the draft regulation being proposed by the Agency?**

A copy of the correspondence the Board received in response to February 11, 2014 email and a summary of the March 14, 2014 stakeholder meeting are attached as Exhibit D.

All comments received indicated support of the Board's adoption of the 2014 NEC for non-residential buildings, except an email from Greg Kessinger. Mr. Kessinger questioned the adoption of standards/codes the year they are released as mistakes/compliance issues do not arise until after they have been widely distributed. Historically, the Board adopted a new edition on of the NEC at the beginning of year of its release. The Board has delayed its adoption of standards/codes, and if 2014 NEC is adopted by the Board, it would not be effective prior to late 2014 or early 2015. NFPA has already issued Tentative Interim Amendments (TIAs) on the 2014 NEC which are intended to address mistakes and

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compliance issues in between code editions. The TIAs issued have been reviewed by Board staff and have not been identified as affecting the application of the 2014 NEC in Ohio once adopted.

**9. What scientific data was used to develop the rule or the measurable outcomes of the rule? How does this data support the regulation being proposed?**

The NEC is a standard promulgated by NFPA and a new edition is published every three years. Each new edition includes changes that have been added through American National Standards Institute (ANSI) approved voluntary consensus process many of which address up-to-date scientific data and recognized new technologies. Participants on NFPA technical committees include representatives from the following categories: insurance, consumer, enforcing authority, labor, installer/maintainer, manufacturer, applied research/testing laboratory, user, and special experts. After a process that involves submission of proposed changes, public comment, committee review, and voting by NFPA members, all approved changes are included in the next edition of the standard. All information related to the development of the 2014 NEC including proposals, technical justification and actions of the NFPA 70 Committee can be found on NFPA's website at the following link : <http://www.nfpa.org/codes-and-standards/document-information-pages?mode=code&code=70>

**10. What alternative regulations (or specific provisions within the regulation) did the Agency consider, and why did it determine that these alternatives were not appropriate? If none, why didn't the Agency consider regulatory alternatives?**

Alternatives would be keeping the current reference to the 2011 edition of the NEC in the proposed rules. However, the Board action to move forward with adoption of 2014 edition was based on petition submitted by a broad coalition of persons and entities including significant support from the electrical industry. The petition also outlined the importance of adopting the latest edition of the NEC: last edition represents the latest technological advances, building inspection departments are evaluated by the Insurance Services Office (ISO) based on use of up-to-date Codes and Standards, NEC is responsive, industry training programs and industry magazines and other resources support the current edition, and electricians and electrical inspectors trained and working to the current edition have increased opportunities. If the Board would not adopt the 2014, then the electrical and code enforcement industries would not be able to take advantage of these benefits.

**11. Did the Agency specifically consider a performance-based regulation? Please explain.**

*Performance-based regulations define the required outcome, but don't dictate the process the regulated stakeholders must use to achieve compliance.*

Continuing law permits a registered design professional's alternative engineered design to be a compliance alternative method to the prescriptive requirements of the code. Section 106.5 of the Ohio Building Code permits a registered design professional to submit sufficient technical data to substantiate that performance of the proposed alternative engineered design meets the intent of the code. Additionally, section 107.4.3 provides that when construction documents have been prepared by an Ohio registered design professional conforming to the requirements of the rules of the Board pertaining to design loads, stresses, strength, and stability and other requirements involving technical analysis, the documents need only be examined to the extent necessary to determine conformity with other requirements of the rules of the Board.

**12. What measures did the Agency take to ensure that this regulation does not duplicate an existing Ohio regulation?**

Editorial changes are routinely made to the rules to provide consistency with the Ohio Revised Code and other Board and agencies' rules. Additionally, RC § 3781.10 gives the Board sole authority to adopt rules which regulate the erection, construction, repair, alteration, and maintenance of all buildings or classes of buildings specified RC 3781.06 including residential and non-residential buildings. This authority includes the adoption of standards for electrical systems.

**13. Please describe the Agency's plan for implementation of the regulation, including any measures to ensure that the regulation is applied consistently and predictably for the regulated community.**

For these rules to be enforced by a local government, its building department must be certified by the Board. The Board also certifies the personnel who work within these departments to ensure only qualified personnel are enforcing the Board's rules. Certified personnel must complete continuing education to maintain their certifications and continue to be authorized to enforce these rules. The Board has authority to suspend or revoke certifications for failure to properly enforce the rules. Also, the Board has a staff member dedicated to responding to complaints by persons affected by the Board rules. This program helps promote consistent and predictable application of the Board rules.

## **Adverse Impact to Business**

**14. Provide a summary of the estimated cost of compliance with the rule. Specifically, please do the following:**

**a. Identify the scope of the impacted business community;**

Based on the cost impact data submitted with the petition, the Board estimates that cost impact to comply with new requirements in the 2014 NEC is \$79.92 for a typical multi-family dwelling unit. This can increase to \$162.61 per dwelling unit if optional upgrades are included such as laundry areas, dishwasher, additional garage car space, unit located at grade level, receptacles within 6' of kitchen sink other than to serve countertops. These costs are materials/devices only and do not include labor. The Board does not estimate an increase cost to the business community for non-residential commercial buildings which includes that vast majority of structures built under these new requirements. For non-residential commercial buildings, while there are increased costs associated with new provisions in the 2014 NEC, there are also cost savings that can result in neutral cost impact if not a cost savings depending the type of building (office, school, business, etc). Other potential impacts include time spent to familiarize oneself with the substantive changes and purchasing new electrical standard.

**b. Identify the nature of the adverse impact (e.g., license fees, fines, employer time for compliance); and**

See above.

**c. Quantify the expected adverse impact from the regulation.**

*The adverse impact can be quantified in terms of dollars, hours to comply, or other factors; and may be estimated for the entire regulated population or for a "representative business." Please include the source for your information/estimated impact.*

See above. Cost to purchase 2014 NFPA 70 from the publisher is \$89.50. However, NFPA does provide free online access to the standard at its website:

<http://www.nfpa.org/codes-and-standards/document-information-pages?mode=code&code=70>

**15. Why did the Agency determine that the regulatory intent justifies the adverse impact to the regulated business community?**

The Board did not receive any comments from stakeholders questioning the specific cost of compliance of the proposed rules. Mr. Kessinger's comments did suggest that sometimes the costs of changing rules/books outweigh the improvements new editions may contain.

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[CSIOhio@governor.ohio.gov](mailto:CSIOhio@governor.ohio.gov)

However, the Board determined that the benefits of the proposed rules justify the adverse impact by achieving improved electrical safety in multi-family dwelling units and worker safety, provisions that address new technologies and alternative energy sources, additional compliance alternatives particularly for calculating light load, and optional methods employing outlet branch circuit devices.

### **Regulatory Flexibility**

#### **16. Does the regulation provide any exemptions or alternative means of compliance for small businesses? Please explain.**

The rules do not have special exemptions or alternative means of compliance specifically for small business. The Ohio Building Code (OBC) requires a building official to issue an adjudication order to an owner when the design or construction of a building does not comply with the OBC. The adjudication order must comply with Revised Code Chapter 119 and give the owner an opportunity to appeal. This mechanism is often utilized by an owner voluntarily to obtain a variance from the requirements. Variance requests are heard by either the Ohio Board of Building Appeals or a certified local board of building appeals.

Also, the OBC permits alternative engineered designs prepared by a registered design professional to not strictly comply with the prescriptive requirements of the rules. To obtain approvals based on alternative engineered designs, the design professional must submit sufficient technical information to demonstrate that the performance meets the intent of the rules.

#### **17. How will the agency apply Ohio Revised Code section 119.14 (waiver of fines and penalties for paperwork violations and first-time offenders) into implementation of the regulation?**

Revised Code § 3781.102 does not authorize the Board to set the fees and/or penalties assessed by local certified residential building departments in connection with the enforcement of these rules. Compliance with the rules is accomplished through construction conforming to the certificate of plan approval (permit). Therefore, there are no potential paperwork violations of these rules.

**18. What resources are available to assist small businesses with compliance of the regulation?**

The Board's technical staff spends approximately 25% of their time responding to questions on the building codes and educating design professionals, contractors, the public, and code officials of the intent of the Board's rules assisting all parties in compliance.

Additionally, NFPA offers complimentary training and code books to code enforcement personnel when a jurisdiction updates to the latest NEC edition to offset the cost to implement a new code.

Ohio Chapter International Association of Electrical Inspectors offers training to its members on the current electrical code many of whom are electrical contractors.



## National Fire Protection Association

Tim McClintock  
Regional Electrical Code Specialist  
11813 Township Road, Shreve, Ohio, 44676, USA  
TEL: +1 330-567-2030 CELL: +1 330-749-9782 Email: [tmclintock@nfpa.org](mailto:tmclintock@nfpa.org)

October 26, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Rd  
Reynoldsburg, OH 43068

Re: Ohio Electrical Coalition's Petition Addendum

Dear Ms. Hanshaw:

The coalition document you received October 25, 2013 makes clear the link between fire, electrical and life safety and the timely adoption of the 2014 NEC. However, this diverse coalition, which includes 16 industry, professional and life safety organizations, also highlights the potential economic harm that a delayed adoption would have on the State of Ohio.

As examples, NEMA writes in its letter supporting the timely adoption of the 2014 NEC that "Member companies have a significant presence in the State of Ohio representing 47 companies with well over 100 manufacturing and engineering facilities that support the state's economy. Member companies in Ohio collectively employ over 15,000 state residents." Siemens writes, "We have more than 2,000 employees working from 22 locations in the Buckeye State who represent a \$148 million payroll and help generate \$612 million in sales and almost \$8 million in taxes." These are only two examples of the many important letters of support included in the coalition document submitted by Mr. Thomas Moore.

Please find attached a table of contents that will help navigate through the petition and accompanying support documents.

Please do not hesitate to contact me if I can be of further assistance.

Sincerely,

A handwritten signature in black ink that reads "Tim McClintock".

Tim McClintock  
Regional Electrical Code Specialist  
National Fire Protection Association  
Office: 330-567-2030  
Cell: 330-749-9782  
[tmclintock@nfpa.org](mailto:tmclintock@nfpa.org)

**EXHIBIT A**

Ohio Electrical Coalition  
Petition to update referenced standard (NFPA 70) National Electrical Code

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## ***CRITERIA FOR SUBMITTING RULE CHANGES TO THE BOARD OF BUILDING STANDARDS***

The Ohio Board of Building Standards processes all petitions for changes to the rules of the Board of Building Standards (Building, Mechanical, or Plumbing, Boiler, Elevator Codes, or the Pressure Piping rules) pursuant to ORC Chapter 119.

When anyone desires to petition the Board of Building Standards to adopt, amend, or annul a provision of rules of the Board, they must complete an application and provide supporting information submitted to the Secretary of the Board of Building Standards.

The application shall include the following:

- (1) The date the application is prepared;
- (2) The rule number or section that is proposed for amendment, adoption, or annulment;
- (3) The rule numbers of all other rules that will be affected by the matter proposed;
- (4) The name, address, contact information, affiliation of the applicant, and of any representative;
- (5) The provisions that are proposed for adoption, amendment, or annulment;
- (6) The reason and technical justification for the proposed change;
- (7) All text to be eliminated shall be shown deleted by means of strikethrough, e.g., ~~matter to be eliminated~~;
- (8) All proposed new text to be inserted into a rule shall be shown as underlined, e.g., proposed new matter; and
- (9) Twelve copies of the completed application and attachments.

When the Secretary of the Board of Building Standards receives a conforming application for an adoption, amendment, or annulment of rules of the Board, the Secretary will promptly deliver or mail a copy of the application to each member of the Board.

After receiving an application for the adoption, amendment, or annulment of rules of the Board, the Board of Building Standards shall proceed under sections 3781.101 and 3781.12 of the Revised Code.



# OHIO BOARD OF BUILDING STANDARDS

6606 TUSSING ROAD, P.O. BOX 4009  
 REYNOLDSBURG, OHIO 43068-9009  
 (614) 644-2613 fax; (614) 644-3147  
 www.com.state.oh.us/odoc/dic/dicbbs.htm

For BBS use:
Petition #: _____
Date Recv'd: _____

## APPLICATION/PETITION FOR RULE CHANGE

<b>Submitter:</b>	Thomas E. Moore <small>(Contact Name)</small>	Ohio Electrical Coalition <small>(Organization/Company)</small>
<b>Address:</b>	997 Kellar Ave. <small>(Include Room Number, Suite, etc.)</small>	
	Akron <small>(City)</small>	Ohio <small>(State)</small>
		44312 <small>(Zip)</small>
<b>Telephone Number:</b>	330-289-7932	<b>Fax Number:</b> _____
<b>Date:</b>	October 25, 2013	<b>E-mail Address:</b> tmoore1767@aol.com

**Section:** Referenced Standard NFPA 70: 4101:1-35-01; 4101:2-15-01; and 4101:3-13-01

**Proposed Change in Proper Format (attach additional sheets if necessary):**  
 \_\_\_\_\_  
 Please see attachment.  
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**Reason or Technical Justification (attach additional sheets if necessary):**  
 \_\_\_\_\_  
 Please see attachment.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Make Sure the Following Information is Submitted:		Check-off
<b>Submitter:</b>	Name of contact person, organization, address, fax, phone	X
<b>Sponsor:</b>	Organization sponsoring or requesting the rule change (if any)	X
<b>Rule Title:</b>	Title of rule change	X
<b>Purpose/Objective:</b>	Reason or technical justification for the proposed rule change	X
<b>Formatted Rule Language</b>	Language formatted: strikethrough or underline	X
<b>Completed Application:</b>	12 Copies of application and documentation	X-emailed

**Notes:** 1. To encourage uniformity among states using model codes, it is recommended that the submitter first submit any code change directly to ICC and participate in the national model code development process.  
 2. Use a separate form for each code change proposal.

October 25, 2013

Ohio Board of Building Standards  
Regina Hanshaw, Executive Secretary  
6606 Tussing Road  
Reynoldsburg, Ohio 43068

Re: Petition to update referenced standard (NFPA 70) National Electrical Code 2011 edition to the 2014 edition

**Rule Titles:**

4101:1-35-01 Referenced standards: ~~70-11 National Electrical Code (including TIA 11-1)~~ 70-14 National Electrical Code

4101:2-15-01 Referenced standards: ~~70-11 National Electrical Code~~ 70-14 National Electrical Code

4101:3-13-01 Referenced standards: ~~70-11 National Electrical Code~~ 70-14 National Electrical Code

**Submitter:** Thomas E. Moore, Ohio Electrical Coalition, 997 Kellar Ave, Akron, Ohio 44312, 330-289-7932, tmoore1767@aol.com

**Sponsor:** Ohio Electrical Coalition

**Reason and Technical Justification for Rule Change:**

Pursuant to O.R.C. 3781.12, the Ohio Electrical Coalition respectfully requests the Ohio Board of Building Standards update the 2011 edition of NFPA 70 with the 2014 edition of NFPA 70.

The NFPA 70 focuses on the proper installation of electrical systems and equipment to protect people and property from hazards arising from the use of electricity. The use of electrical power in homes, businesses, institutions, industry and other locations is vital within our society. NFPA 70 provides the necessary safeguards and ensures electrical power continues to be a catalyst for better lifestyles, driving economic development and enabling a more efficient operational environment for local businesses to succeed.

Each edition of NFPA 70 reflects the state of technology and industry safety concerns at the time that edition was revised. The requirements in each subsequent edition of NFPA 70, build on the foundation created by all of the preceding editions of NFPA 70. Reviewing the requirements contained in the 53 editions of this standard is a historical account of how electrical power has been safely distributed and controlled within our homes, businesses and institutions. The Ohio Board of Building Standards has for many years, supported this philosophy with timely adoption of NFPA 70. In doing so, the OBBS has ensured Ohio's citizens can safely use electrical energy where they live, work, and play.

Failures to timely adopt NFPA 70 will in many cases preclude or impede the opportunity to take advantage of:

- Revised requirements that enable the use of technology that drives down the cost of operational expenses that enable business to be more competitive and reduces the burden of operational expenses of not only businesses and industry, but also taxpayers.
- New wiring methods that may be safer and more cost-effective to install.
- New equipment that allows for a safer interface with devices that deliver electrical power.

- New devices that further the fire and shock protection mission of the Code.
- New electrical power production sources such as solar and wind systems.

Electrical power for automobiles is a rapidly emerging technology and must be implemented with the necessary safeguards. Electric vehicle charging stations are being designed to the latest standards. It is imperative that adopted standards support these installations not only for the home, but also public access to charging including high voltage DC fast charging stations. Again, NFPA 70 has risen to meet that challenge so that safety regulations support, rather than obstruct, increased use of electrically powered automobiles.

The changes in the 2014 NFPA 70 are focused on advancing electrical safety and most can be placed into one of the following categories. Additional supporting documentation is included with this petition that further illustrates the necessity for the Ohio Board of Building Standards to update this important reference standard. Timely adoption of the 2014 NFPA 70 will enhance public safety as well as provide economic opportunities.

- **Keeping the regulatory document current with industry trends in new technology and delivery and generation of electric power.**
  - Revisions that change the voltage thresholds from 600 to 1000 volts to recognize that commonly used alternative energy systems operate at over 600 volts. This will result in revision to equipment voltage ratings within product standards to accommodate higher operating voltages of systems such as PV and wind power.
  - A new article introduced in the 2011 NFPA 70 addressed requirements for small wind electrical systems of 100 KW and smaller. This article has been revised to apply to all wind systems, ensuring that regardless of size, minimum electrical safety requirements are in place.
  - A new article for Modular Data Centers. These new systems are becoming prominent in the demand for business systems to meet a 100% up time for business continuity.
  - Revised requirements covering the expanding use of solar photovoltaic power, including a new requirement for a rapid shutdown of PV systems on buildings to lower the power of PV systems to a level that is intended to prevent a shock hazard to first responders performing operations on a roof.
  - New article and installation requirements for Low Voltage Suspended Ceiling Power Distribution Systems.
  - Extensive upgrades are underway to achieve greater energy efficiency in signs and luminaires by replacing in-place illumination systems with LEDs. New requirements ensure that “retro fit kits” employed meet minimum product safety standards through listing requirements.
  - New and revised requirements covering electric vehicle charging equipment that keeps the regulatory document in step with the increase in consumer demand for all-electric and hybrid- electric vehicles. New provisions that allow an automatic load management system that may grant relief on sizing of service and feeders.
  - Revised requirements to address protection of drives for motors. Drives are instrumental in our factories and buildings reducing their energy expense.
- **Energy management is common in today’s electrical infrastructure through the control of utilization equipment, energy storage and power production. Several new requirements address safe interaction with these energy management systems, while others provide substantial relief on the overall cost of the electrical system.**
  - A new article that provides requirements covering the loads where continuity of power cannot be compromised or where automatic disconnection creates a hazard for the public such as shutting off emergency circuits.

- New exception to permit calculation of the general lighting load to be performed per locally adopted energy codes. This may grant substantial relief for sizing of service and feeder distribution systems.
  - The 2011 NFPA 70 provided requirements for a grounded conductor to be provided at switch location to address switching devices, such as occupancy sensors and their safe connection to the electrical system. The 2014 edition of NFPA 70 grants relief by providing alternative methods of compliance.
  - New marking symbol requirement for receptacle outlets controlled by an automatic control device or by an automatic energy management system to ensure safe interaction and ensure business continuity.
- **Protecting electrical workers while maintaining or servicing electrical or electrically powered equipment.**
    - New requirement that provides uniform conditions for locking off switches that control power to equipment in order to ensure that electrical workers can safely service and maintain equipment. Such requirements correlate with federal occupational health and safety regulations covering safe work practices on and about electrical equipment.
    - Revisions to egress door requirements to address worker safety in the event of an arc flash/blast incident.
    - Revised to include standardized requirements for hazard marking where caution, warning, or danger signs or labels are required by this referenced standard.
    - Revised requirements for Arc Energy Reduction to provide additional methods for acceptable arc flash mitigation methods for worker safety.
  - **Protecting homes and dormitories from fires of electrical origin.**
    - Arc-fault circuit interrupters are the most advanced technology currently recognized by NFPA 70 for protecting premises against fires resulting from damaged wiring. Revisions to these requirements expand this protection and provide additional methods for compliance.
  - **Protecting people from electric shock in homes and workplaces.**
    - New requirements for ground-fault circuit interrupter protection (GFCI). Ground-fault circuit interrupters were first included in the 1971 edition of NFPA 70 and their continued expansion to cover areas in homes and workplaces where occupants are particularly susceptible to electric shock accidents can be directly attributed to reductions in electrocutions and electric shock accidents.

The importance of promptly adopting the current edition of NFPA 70 is even more pronounced in today's fast paced changing environment. In addition to improved safety requirements, the most current codes and standards enable the latest technology that industry needs to be competitive and ensure their work force is protected from the hazards that could arise with the implementation of that technology. Consumers can operate their entire home and building owners can control their building operations through the simple touch of a button on their iPhone that was nearly non-existent when the last edition of NFPA 70 was adopted.

Updating NFPA 70 makes sure communities continue to provide an acceptable level of public safety while supporting the latest technological advances, which is core to the mission of the OBBS.

This petition is submitted on behalf of the Ohio Electrical Coalition, which is comprised of a broad cross section of industry stakeholders committed to moving electrical safety forward in the State of Ohio through timely adoption of the 2014 edition of NFPA 70. This will ensure that there are safe installation requirements in place to allow uniform implementation of the latest developments in electrical systems, equipment, and technology to meet consumer demand.

The coalition members look forward to supporting the OBBS move forward in revising and updating Ohio electrical safety requirements that will enable us to be competitive and enhance the safety of our workforce, communities and families.

- Ohio Fire Officials Association
- Ohio Fire Chiefs Association
- Ohio Chapter International Association of Electrical Inspectors (IAEI)
- Electric League of Ohio
- Greater Cincinnati Electrical Association
- IEC of Cincinnati
- IBEW Local 212, 306 & 683
- Cincinnati NECA
- Adequate Wiring Committee Dayton
- NEMA
- NFPA
- The Electrical Trades Center of Central Ohio
- Warren NJATC
- American Society for Healthcare Engineering
- Underwriters Laboratories
- Intertek



# Ohio Fire Chiefs' Association

*Ohio's Premier Fire & Emergency Service Leadership Association*

October 17, 2013

Ohio Board of Building Standards  
Attn: Ms. Regina Hanshaw, Executive Secretary  
6606 Tussing Road  
Reynoldsburg, Ohio 43068

Re: Support for Petition to Update Referenced Standard (NFPA 70) to National Electric Code 2014 Edition

Dear Members of the Ohio Board of Building Standards:

I am writing to you on behalf of the Board of Directors of the Ohio Fire Chiefs' Association. The Board of Directors has voted to support the Ohio Board of Building Standards adoption of the updated Referenced Standard NFPA 70 to the National Electric Code 2014 Edition. There are several reasons to support adopting the 2014 National Electric Code.

Adopting the current cycle of an electrical code keeps pace with changes and updates in electrical safety technology, methods, and products. It also enacts an electrical code that has responded in a timely manner to industry and societal needs, i.e., ensuring that minimum safety requirements are in place for wind and solar energies for first responders working on roofs and makes certain that expanding electric vehicle charging infrastructure will meet the demands of the industry and public safety. It provides an electrical code that facilitates the implementation of a document that is up to date with current industry technology and methods. It provides an electrical code that allows consumers to derive the benefit of electrical installations incorporating equipment and methods that provide the latest advancements in electrical safety including protecting homes and dormitories from fires of electrical origin and protecting people from electric shock in homes and workplaces.

On behalf of Ohio's fire service, we encourage the Ohio Board of Building Standards to adopt the 2014 National Electric Code. Adoption will ensure that Ohio remains at the forefront of developments in the electrical industry and that electrical systems are safe for our citizens, businesses, and firefighters across Ohio. Thank you for your time and consideration. If you have any further questions or concerns, please do not hesitate to contact me.

Yours in public safety,

Chief Porter R. Welch, J.D.  
President, Ohio Fire Chiefs' Association, Inc.



October 22, 2013

Ohio Board of Building Standards  
Regina Hanshaw, Executive Secretary  
6606 Tussing Road  
Reynoldsburg, Ohio 43068

Subject: Petition to update the referenced standard National Electrical  
Code 2011 edition to the 2014 edition

Dear Secretary Hanshaw,

We at Underwriters Laboratories (UL) are deeply committed to advancing the safety of the citizens of Ohio State. UL believes that the National Electric Code (NEC) serves as an important tool in advancing that safety. Continued adoption of the 2014 NEC by the Ohio Board of Building Standards is critical to these efforts. Pursuant to Ohio revised Code 3781.12, UL is writing to request that the State of Ohio move forward with the adoption of 2014 NFPA 70, NEC as requested in the petition filed by the Ohio Electrical Coalition. Adoption will ensure enforcement of the latest advancement of electrical safety requirements.

Dedicated effort is put into updating new versions of the NEC for purposes of adopting the most current best practices for electrical safety. Timely adoption of the 2014 NEC will ensure public safety is not compromised. In order to improve code application and enforcement throughout the State, and to reap the advantages of new standards and technology that enhance electrical safety and energy management, we encourage the Ohio Board of Building Standards to adopt the 2014 NEC.

In conclusion, neither the safety of Ohio State's citizens nor its electrical industry would benefit from a delay in the adoption of the latest electrical code, leaving the state stalled with the 2011 NEC. Instead, the Ohio Board of Building Standards should take advantage of new safety requirements that have been written in the latest edition of the NEC.

Sincerely,

A handwritten signature in black ink, appearing to read 'August W. Schaefer'.

August W. Schaefer  
Senior Vice President and  
Public Safety Officer  
Office: +1.847.664.3603  
Mobile: +1.847.420.7674  
Fax: +1.847.272.8845  
Email: [August.Schaefer@ul.com](mailto:August.Schaefer@ul.com)

Wednesday, October 16, 2013

Ohio Board of Building Standards  
Regina Hanshaw, Executive Secretary  
6606 Tussing Road  
Reynoldsburg, Ohio



Dear Board Members,

The Ohio Electrical Training Directors Association is an organization representing the Directors of all nineteen IBEW/NECA electrical apprenticeship and training programs across Ohio. OETDA training programs are recognized for excellence, most recently by the Ohio Board of Regents and the Higher Learning Commission who have granted these programs a statewide articulation agreement providing portable college credit to IBEW/NECA apprenticeship completers. Statewide these programs invest tens of millions of private dollars to assure Ohio has a pool of highly trained electrical professionals.

We are writing today in support of the Ohio Electrical Code Coalition's petition requesting the adoption of the 2014 edition of NFPA 70. The accelerated advance of technology that is seen in every electrical installation poses challenges for trainers. In which technology do our constituents need training? How soon will this technology be supplanted by future technology? At what depth should the training be? Across this great state, IBEW/NECA apprenticeship programs are asking these questions, and investing real dollars in training both apprentices and journeyworkers in the latest technology focused on energy efficiency control and lighting systems; as well as alternative energy systems, primarily solar photovoltaics and wind turbines. Our customers are demanding the installation of these high end electrical systems and we simply must have a qualified workforce in place to meet Ohio's need.

What a shame it would be if the electrical code in Ohio did not keep up with not only installed technology, but did not keep up with the high value training provided her electrical workers. We could find ourselves in a situation where a high technology lighting system, specified by an Ohio owner, installed by highly trained Ohio electricians could not pass inspection because Ohio does not have an electrical code that recognizes the system. A very real scenario that could play out if Ohio does not move forward adopting the 2014 NFPA 70.

Additionally, OETDA training programs spend a good portion of their budgets safety training apprentices and providing continuous safety instruction to journeyworkers. The 2014 edition of NFPA 70 contains several important revisions designed to enhance electrical worker safety. The adoption of the document would assure Ohioans are safer on the job.

In summation, the OETDA urges the Ohio Board of Building Standards to adopt the 2014 NFPA 70 document. It's the right thing to do to keep Ohio at the forefront of technology. It's the right thing to do for Ohio's workers.

Sincerely Yours,

Stephen Lipster, Secretary - Treasurer  
Ohio Electrical Training Directors Association



**State of Ohio  
Board of Building Standards  
P.O. Box 4009  
6606 Tussing Road  
Columbus, Ohio 43068**

**RE: Petition to Adopt 2014 National Electric Code**

The Electrical League of Ohio is a non-profit industry trade association for the electrical, lighting, data communication and sustainability industries. Our membership consists of manufacturers, distributors, contractors, engineers and designers, representing 160 companies in the Cleveland and Akron/Canton areas.

The purpose of the Electrical League is to represent and promote the best interests of its membership and their products and services, within the Ohio electrical industry. The League strives to formulate a high ethical standard for guidance, promotion of education and awareness of electrical uses, and to collect and disseminate information relating to our industry. The Electrical League is an approved State of Ohio training agency (#370) that provides its members with educational, professional development and networking opportunities. The League serves as an information interface between the various lines of business within the industry.

The Electrical League of Ohio Board of Directors believe it is in the best interest of their companies and our industry to advance public safety by advocating to our state and municipal jurisdictions to adopt the most current building, sustainability, electrical and life safety codes. Our organization supports that the National Electric Code is the benchmark for safe electrical design, installation, and inspection to protect people and property from electrical hazards. Our industry manufactures believe the NEC provides the infrastructure they need to bring their products to market. To not adopt the most current code would greatly hinder the technological advancement and construction of our region.

Education is the largest portion of the Electrical League's business plan. Our trade shows, conferences and educational courses is based on the latest education and technology in our industry. As a non-profit, our main source of revenue is generated through our educational programs.

As a service to our members and the industry, we have been a provider for the National Electric Code instruction and materials for many years. Our NEC Conference is the second largest event the Electrical League promotes. The proceeds from the NEC Conference denotes a large portion of annual operating budget.

The Electrical League has incurred the following expenses pertaining to the 2014 National Electric Code:

Materials: 2014 National Electric Code Books.....	\$12,172.00
Instructor Fees.....	\$3,000.00
Conference venues, deposits.....	\$3,500.00
<b>Total Loss.....</b>	<b>\$18,672.00</b>

The loss of revenue reflected above has an incredible impact on the financial state of our association.

Our industry experts and leaders have spent thousands of hours to make certain the NEC has the impact where it's needed. It is proper to evaluate the codes every now and then to see if it was effective and if it was really being strictly followed. It's important to that our industry participants understand the requirements for the design and installation in the jurisdiction they are working.

The Electrical League of Ohio's Board of Directors and Membership strongly encourages the Ohio Board of Building Standards to consider accepting the 2014 National Electric Code in the good and safety of our industry!

Sincerely,



Terri Hanna Wiehn  
Executive Director  
The Electrical League of Ohio  
20575 Center Ridge Road, Suite 117  
Rocky River, Ohio 44116  
State of Ohio Training Agency #370  
(440) 333-5070

**The Electrical League of Ohio  
2013 Board of Directors**

**The Electrical League of Ohio Board of Directors unanimously supports the petition to the Ohio Board of Building Standards to adopt the 2014 National Electric Code. Voted and accepted September 17, 2013.**

	<b><u>Company</u></b>	<b><u>Last</u></b>	<b><u>First</u></b>
1	Eaton Corp.	Williams	Eddie
2	Electrical Sales of Ohio	Pelc	Gary
3	Gatto Electric	Gatto	Lou
4	GE Lighting (Industrial & Consumer)	Taylor	Donna
5	Graybar	Stallman	Craig
6	Hawkins Sales of Ohio	Amsden	Brian
7	Impact Agency	Martin	Jim
8	Karpinski Engineering	Blatnik	Gregory
9	Leff Electric	Better	Bill
10	Madison Electric Prod.	Davis	Scott
11	Mars Electric	Doris	Michael
12	Osram Sylvania	Wilson	Scott
13	Panduit	Prusock	George
14	PEPCO	Moran	Don
15	RC Childs Co.	Najda	Rudy
16	Riffle & Associates	Riffle	Dyke
17	Tec Inc.	Pool	Tim
18	VP Sales	Petty	Tom
19	Wolff Bros. Supply	Doherty	Bob
20	Zenith Systems	Barbour	Steve



## National Fire Protection Association

Tim McClintock  
Regional Electrical Code Specialist  
11813 Township Road, Shreve, Ohio, 44676, USA  
TEL: +1 330-567-2030 CELL: +1 330-749-9782 Email: [tmclintock@nfpa.org](mailto:tmclintock@nfpa.org)

October 24, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Rd  
Reynoldsburg, OH 43068

Re: Support for the Ohio Electrical Coalition's Petition to Update Referenced Standard NFPA 70

Dear Ms. Hanshaw:

NFPA 70 focuses on the proper installation of electrical systems and equipment to protect people and property from hazards arising from the use of electricity. As electrical equipment has become more complex and widespread, the NFPA 70 has adapted to meet new challenges. Revised every three years to allow for new technologies and improved installation safety practices, NFPA 70 is a ready-to-use, comprehensive standard suitable for adoption.

NFPA 70 is developed and produced by the National Fire Protection Association (NFPA), an independent, not-for-profit standards developing organization and advocate of fire, building, and electrical safety. Since 1911, NFPA has been the sponsor of NFPA 70 and the requirements of this standard have continued to evolve with America's heavy reliance on reliable and safe electrical energy. NFPA 70 is developed through an open, transparent, and balanced process accredited by the American National Standards Institute.

NFPA 70 has evolved in its over 100-year history to contain requirements that reflect American society's use of electric power in the home and in the workplace. Technology that improves electrical safety has been incorporated into NFPA 70 as it has been revised through the years. New methods of providing a safer electrical installation ranging from improved wiring methods to ground-fault circuit interrupters to arc fault circuit interrupters reflect the continuous improvement in electrical safety that is contained in each new edition of the NEC. This continuous improvement is emblematic of the NFPA mission to reduce the burden of fire and other hazards on society. Electric shock and fire accidents still occur resulting in injury, death and property loss. We continue to work at eliminating these devastating and tragic events through the incorporation of new and better approaches to managing and controlling electric energy in each new edition of NFPA 70.

Leading edge technology such as that associated with electric vehicles and alternative energy systems like solar photovoltaic and wind power must be installed and used safely in order for the public to derive their full benefit. The advancement of these types of systems requires continuous updating and review of regulatory documents in order to keep the requirements on par with current

technology. Outdated requirements can pose roadblocks to implementation of important initiatives such as the current trend towards “green technologies”. In addition, advancements in electrical equipment have made the systems that power our homes and workplaces even safer.

By continuing to adopt the current edition of the NFPA 70 you provide your constituents with the following:

- An electrical standard that has kept pace and with changes and updates in electrical safety technology, methods, and products.
- An electrical standard that has responded in a timely manner to industry and societal needs, i.e., ensuring minimum safety requirements are in place for wind and solar energies and making certain that expanding electric vehicle charging infrastructure will meet the demands of the industry and public safety.
- An electrical standard that facilitates the implementation of a document that is up to date with current industry technology and methods.
- An electrical standard that provides state and local licensing authorities with the ability to implement current and relevant requirements into licensing examinations and continuing education requirements.
- An electrical standard that allows consumers to derive the benefit of electrical installations incorporating equipment and methods that provides the latest advancements in electrical safety.
- An electrical standard that does not pose a barrier to implementation of new technologies.
- An electrical standard that recognizes the latest electrical products and does not create a barrier for equipment manufacturers

NFPA supports the petition filed on behalf of the Ohio Electrical Coalition, to update the 2011 edition of NFPA 70 to the 2014 edition and encourages the Ohio Board of Building Standards to move forward by providing its citizens with the appropriate level of safety outlined in the 2014 edition of NFPA 70.

Sincerely,



Tim McClintock  
Regional Electrical Code Specialist  
National Fire Protection Association  
Office: 330-567-2030  
Cell: 330-749-9782  
[tmcclintock@nfpa.org](mailto:tmcclintock@nfpa.org)



Valued Quality. Delivered.

Intertek  
1717 Arlingate Lane  
Columbus, OH 43228 USA  
Phone: +1 (614) 279-8090  
[www.intertek.com](http://www.intertek.com)

October 25, 2013

Ohio Board of Building Standards  
Regina Hanshaw, Executive Secretary  
6606 Tussing Road  
Reynoldsburg, Ohio 43068

Dear Ms. Hanshaw:

Intertek supports the petition drafted by the Ohio Electrical Coalition and urges the Ohio Board of Building Standards to update NFPA 70, National Electrical Code 2011 edition, to the 2014 edition without delay.

As a long-time and committed partner to Authorities Having Jurisdiction, Standards Development Organizations, Public Safety departments, and manufacturers, Intertek's position is that the latest and most frequent adoption of safety standards and building codes are in the best interest of public safety (people and property). Especially considering the pace of technology and innovation today, codes and standards cannot always keep up with new product introductions. Code development and revisions have historically been a long and methodical process. We believe that even that must evolve in order to stay current with today's equipment and installations – all in the name of safety.

Rolling back the adoption of new standards to anything longer than a three year period could potentially keep the State of Ohio out-of-synch with the public safety needs of its residents. As an OSHA-recognized NRTL and an independent testing laboratory and certification body with roots tracing back to Thomas Edison, Intertek's goal is to partner with organizations who can help ensure product (and the public's) safety.

Again, we support the Ohio Electrical Coalition's petition that the Ohio Board of Building Standards update NFPA 70, National Electrical Code 2011 edition, to the 2014 edition forthwith.

Thank you for your consideration.

Regards,

A handwritten signature in black ink, appearing to read "Paul Moliski", written in a cursive style.

Paul Moliski  
Vice President  
Intertek



October 9, 2013

Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, Ohio 43068

To Whom It May Concern:

The Independent Electrical Contractors (IEC) of Greater Cincinnati is a premier electrical trade association with 32 member companies that employ more than 800 field workers. The focus of the association is quality electrical training that the member companies rely on for a qualified workforce in a competitive market. The training includes a four-year electrical apprenticeship program that utilizes the IEC national curriculum as well as on-going journeymen electrician skill upgrade classes. A major component when training electrical workers must include the National Electrical Code (NEC).

The introduction of the NEC states “The purpose of this Code is the practical safeguarding of persons and property from hazards arising from the use of electricity. It is not intended as a design specification or an instruction manual for untrained persons”. The intent is clear that users of the NEC must be trained. In addition, the Code contains provisions that are considered necessary for safety. Compliance therewith and proper maintenance results in an installation that is essentially free from hazard.

The NEC is on a three-year revision cycle to stay current with new technologies and recognize electrical products that can provide a safer electrical environment. The revision process includes public review and is carefully considered by 19 Code making panels (CMP). The panel committee memberships include manufacturers, users, installer/maintainers, labor, applied research/testing laboratory, enforcing authority, insurance, consumer, utilities and special experts. IEC members serve on all 19 Code making panels and support the process to ensure safe electrical installations. Our participation ensures a consensus code that can be adopted when issued by the Standards Council.

The 2014 NEC has been issued. The changes and provisions set forth in the 2014 document will ensure public safety at the highest level. Many of the changes in the 2014 NEC also directly impact our worker safety, such as: uniform locking provisions to ensure electrical workers can safely service and maintain equipment, revisions to egress door requirements to address worker safety in the event of an arc flash/blast incident, and

revised requirements for arc energy reduction to provide additional methods for acceptable arc flash mitigation methods. These are just a few of the changes impacting worker safety. With new and advancing safety technologies, it is extremely important that the State of Ohio keep pace by helping protect the electrical worker through adoption of the 2014 NEC.

IEC encourages the swift adoption of the 2014 NEC in its entirety so we can provide the necessary training that will include the changes in the 2014 edition.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Hittinger", with a long horizontal line extending to the right.

David Hittinger  
Executive Director  
Independent Electrical Contractors of Greater Cincinnati  
Principal member, NEC CMP 1  
Principal member, NEC Correlating Committee  
Member, UL Electrical Council  
Member, Ohio State Apprenticeship Council



October 17, 2013

Ohio Board of Building Standards  
Regina Hanshaw, Executive Secretary  
6506 Tussing Road  
Reynoldsburg, Ohio 43068

Dear Ms. Hanshaw:

The Greater Cincinnati Electric Association traces its origin to 1910 when it was organized as the Cincinnati Jovian Electrical Club by a group of dedicated, future minded, people involved in the infant electrical industry. Its purpose was to function as an information source for all facets of the electrical industry: manufacturers, distributors, contractors, industrials, architects, engineers, and any other business or services involved in this field. It was the liaison between the public and the electrical body dispensing information on electrical products and their safe installation and use.

In 1934 we became the Cincinnati Electric Association and in 1989 evolved into the Greater Cincinnati Electric Association (GCEA) as we had grown into a regional organization. While our name has changed over this century, our purpose has remained the same. Today our members consist of engineers, electrical safety inspectors, electricians, material and equipment suppliers, and others who work as contractors, or are employed in engineering companies, industrial, health care, educational, government institutions and municipal, county and state entities. The GCEA has the approval of its membership to represent their interest in this matter. The membership consists of over one hundred electrical industry related companies, and thus several thousand of electrical industry employees.

For over a century we have been providing education to our members enabling them to provide safe and cost effective installations of electrical systems and safe and effective uses of electrical equipment and devices for the citizens that we serve. Our purpose is to protect our citizens from the hazards of electricity that can develop if systems are not installed correctly or equipment and devices are misapplied.

The application of the NEC is the foundation of our efforts.

Technologies have advanced at an ever increasing rate in the past decade. This new technology has resulted in new systems, products and improved safety technologies that were not even imagined just a short time ago. It is important that the State of Ohio keep pace with these

advancements. Timely adoption of the 2014 NEC will ensure we have minimum requirements in place to address these advancing technologies that will result in greater safety for our citizens in their homes, hospitals, schools, and places of employment. It also would ensure more cost effective installations of electrical systems resulting in more value for their hard earned dollars.

We therefore support the position of the Coalition in their petition to update referenced standard (NFPA 70) National Electrical Code 2011 edition to the 2014 edition at the earliest possible date.

Very Truly Yours,



Terrence Eibel  
Executive Director,  
Greater Cincinnati Electrical Association

P.O. Box 58183, Cincinnati, OH 45258  
859-512-5244

American Society for Healthcare Engineering  
155 N. Wacker Dr., Suite 400  
Chicago, IL 60631



October 18, 2013

To members of the Ohio Board of Building Standards:

The codes and standards regulating hospitals help keep our patients, staff, and visitors safe—but problems arise when governments mandate compliance with outdated requirements. The American Society for Healthcare Engineering (ASHE) of the American Hospital Association believes it is imperative for government agencies and lawmakers to regularly adopt the most recent editions of codes regulating the health care physical environment. We urge you to adopt the 2014 edition of NFPA 70: *National Electrical Code*®.

Building and fire codes are updated every three years, and adopting new codes and standards as they are released is critical to maintaining a safe, healing environment. Sometimes codes are updated with significant provisions that reflect important technological or clinical changes. Waiting to adopt new regulations means hospitals cannot take advantage of these new provisions. When authorities fail to adopt new codes in a timely manner, the amount of changes from one code cycle to the next piles up, making it more difficult to train code enforcers and those in hospitals responsible for compliance.

ASHE and other organizations are working every day to help improve the codes and standards that regulate the health care physical environment. We urge all states to adopt updated codes to help provide a safe, healing physical environment for patients.

ASHE is a member of the Coalition for Current Safety Codes, a broad-based, volunteer-oriented group of nonprofit organizations, local governments, code officials, industry leaders, and others who believe in advancing safety by advocating for current codes. More information about the coalition is available at [www.coalition4safety.org](http://www.coalition4safety.org).

Please contact me if you have any questions or need more information on the importance of updated codes. By adopting the most recent edition of the *National Electrical Code*, Ohio can help optimize the health care physical environment and keep patients, staff, and visitors safe.

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Beebe", with a stylized flourish extending from the end.

Chad Beebe, AIA, SASHE  
ASHE Director of Codes and Standards  
[cbeebe@aha.org](mailto:cbeebe@aha.org)  
312-422-3824

# Advocating for Current Health Care Codes

It's critical for government agencies and lawmakers to adopt up-to-date versions of codes regulating the health care physical environment. Codes are updated every few years, and problems arise when governments continue to require compliance with outdated codes. The American Society for Healthcare Engineering (ASHE) of the American Hospital Association urges agencies regulating hospitals to adopt up-to-date editions of codes.

Codes regulating the health care physical environment are updated every three to four years, yet states and federal agencies sometimes lag behind in adopting these new editions of code.

Adopting new codes and standards as they are released is important. Waiting several years to adopt new codes means the of changes will pile up, making it more difficult to train both code enforcers and those in hospitals responsible for compliance.

One important example of the problems with outdated codes can be seen in the fact that the Centers for Medicare & Medicaid Services (CMS) still requires compliance with a code written more than a decade ago. CMS currently requires hospitals to comply with the 2000 edition of the National Fire Protection Association's NFPA 101: *Life Safety Code*®. Since the 2000 edition was released, a total of four updated editions of that code have been released—one each in 2003, 2006, 2009, and 2012. CMS is currently considering adopting the 2012 edition of the *Life Safety Code*, an action that has the potential to save hospitals billions of dollars without diminishing patient safety.

Codes issued in 2000 may not seem that old, but they were developed before the terrorist attacks in 2001, Hurricane Katrina in 2005, and Superstorm Sandy in 2012. It is important to update codes to incorporate the lessons learned in these types of tragedies and other events, and it is equally important to adopt these updated editions of the code to be able to practically apply these lessons learned.

The 2000 edition of the *Life Safety Code* references more than 50 other technical codes and standards. When the 2000 edition was written, these reference codes were current. But these referenced standards have also been updated over the years. Yet hospitals are stuck using reference codes from as far back as 1995 because they are mandated by the 2000 edition of the *Life Safety Code*.

CMS requirements affect hospitals nationwide. But state delays in adopting updated codes can also pose problems for health care facilities. ASHE recommends that states adopt the latest version of the *International Building Code* to regulate the construction of new hospitals. ASHE also urges states to adopt the latest edition of the *Guidelines for Design and Construction of Health Care Facilities*, which details standards for the clinical environment.

Using old codes is especially problematic given the speed of advances in safety and technology in recent years, including the widespread use of quick response sprinklers, adoption of non-smoking policies, and a variety of code advancements.

ASHE supports the adoption of updated codes by federal agencies and urges states to adopt updated statewide building codes every three or four years as these codes are updated. ASHE is a member of the Coalition for Current Safety Codes, a broad-based, volunteer-oriented group of nonprofit organizations, local governments, code officials, industry leaders, and others who believe in advancing safety by advocating for current codes. More information about the coalition is available at [www.coalition4safety.org](http://www.coalition4safety.org).



For more information about the need to adopt updated regulations, contact Chad Beebe, AIA, SASHE, at [cbeebe@aha.org](mailto:cbeebe@aha.org) or 312-422-3824.

**American Society for Healthcare Engineering**  
[www.ashe.org](http://www.ashe.org)



**KYLE PITSOR**

Vice President, Government Relations

October 25, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

**Re: NEMA Supports Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code® 2011 Edition to the 2014 Edition**

Dear Ms. Hanshaw:

On behalf of the National Electrical Manufacturers Association (NEMA), I am writing to express support of the Ohio Electrical Coalition's petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70. For many years, Ohio has championed the standard of excellence by being one of the first states in the nation to adopt the newest edition of the National Electrical Code® – putting the safety of its citizens and economic well-being of its industry first.

NEMA has long supported timely adoption of the National Electrical Code® (NEC) by state and local jurisdictions. We maintain that prompt adoption of the most current edition of the NEC is the best way to ensure a uniform and up-to-date standard of safety for all occupants in the built environment. Current codes mean safer and more economically prosperous communities.

The NEC focuses on the proper installation of electrical systems and equipment to protect people and property from hazards arising from the use of electricity in the built environment. The code also allows for the safe use of new technologies including electric vehicle charging equipment and distributed generation such as solar photovoltaic panels. Should the OBBS delay adoption of the NEC, it will preclude or impede the ability to take advantage of such new technology – new technology that could pave the way to the creation of new jobs; updated wiring methods that are safer and may be more cost-effective; and potentially reduce the number of electrical manufacturing jobs in the state of Ohio.

Through adoption of the 2014 NEC, businesses today will be able to take advantage of lower infrastructure start-up and operational costs through new and improved technology. For instance, Article 646 enables advancements for modular data center systems which are becoming prominent in the demand for business systems to meet a 100% up-time for business continuity. Article 393, which includes requirements for low-voltage suspended ceiling power distribution systems, provides an easier and less expensive method of delivering power for general lighting and power loads, and task lighting in an office area.

NEMA is the trade association of choice for the electrical equipment and medical imaging manufacturing industry. The approximately 400 member companies manufacture products used in the generation, transmission and distribution, control, and end-use of electricity. NEMA member companies have a significant presence in the state of Ohio representing 47 companies with well over 100 manufacturing and engineering facilities that support the state's economy. Member companies in Ohio collectively employ over 15,000 state residents.

Once again, NEMA urges the OBBS to maintain this tradition of excellence by promptly initiating the review and adoption of the 2014 NEC. If you have any questions, please contact Deana Dennis, Manager of State Government Relations, at [deana.dennis@nema.org](mailto:deana.dennis@nema.org) or (703) 841-3244.

Sincerely,

A handwritten signature in cursive script that reads "Kyle Pitsor".

Kyle Pitsor  
Vice President, Government Relations



October 25, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

**Re: Support for Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code® 2011 Edition to the 2014 Edition**

Dear Ms. Hanshaw:

I am writing in support of the Ohio Electrical Coalition's petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70. Ohio has shown a consistent interest in safety by being one of the first states to adopt the newest edition of the National Electrical Code (NEC), and we encourage the state to continue this practice.

Siemens is a diversified international electronics and engineering company. We have more than 2,000 employees working from 22 locations in the Buckeye State who represent a \$184 million payroll and help generate \$612 million in sales and almost \$8 million in taxes.

Siemens, a member of the National Association of Electrical Manufacturers (NEMA), supports the timely adoption of the NEC by state and local jurisdictions. We believe that prompt adoption of the most current edition of the NEC is the best way to ensure a uniform and up-to-date standard of safety. The NEC focuses on the proper installation of electrical systems and equipment to protect people and property from hazards arising from the use of electricity in the built environment. The code also allows for the safe use of new technologies.

Should the OBBS delay adoption of the NEC, not only will it hurt the ability to take advantage of such new technology that can create new jobs; update wiring methods that are safer -- it potentially could reduce the number of electrical manufacturing jobs in the Ohio. Therefore, Siemens encourages the board to maintain this tradition of excellence by promptly initiating the review and adoption of the 2014 NEC.

Cordially,

Tom Phillips  
Senior Director, State & Local Government Affairs

**Siemens Corporation**

Government Affairs

300 New Jersey Ave. N.W.  
Suite 1000  
Washington, D.C. 20001

Tel: (202) 434-4800  
Fax: (202) 347-4015

[www.siemens.com](http://www.siemens.com)



October 24, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

Dear Ms. Hanshaw:

**Schneider Electric Supports the Ohio Electrical Coalition Petition to  
Update Referenced Standard (NFPA 70) National Electrical Code®  
2011 Edition to the 2014 Edition**

I am writing to inform you of Schneider Electric's **support of the Ohio Electrical Coalition Petition to update the National Electrical Code from the 2011 NEC to the 2014 NEC.**

Schneider Electric is a global energy management specialist that operates in the fields of industry, energy, power, and healthcare, and provides infrastructure solutions for cities and states. As part of a major presence in the United States, in Ohio we have over 650 employees at 14 different locations including four manufacturing facilities. We also support thousands of additional direct and indirect jobs in Ohio by working with over 430 vendors and suppliers located in the state.

Schneider Electric continues to advocate for timely adoption of the National Electrical Code® (NEC). The NEC focuses on the proper installation of electrical systems and equipment supporting safe electrical infrastructure installations which also establishes the safe use of electricity. Our products are designed and manufactured to comply with the most current edition of the National Electrical Code. Supporting design and construction of electrical infrastructure that does not utilize the most current electrical code restricting the use of the most current technology and designs is less efficient and more costly for not only Schneider Electric to manufacture, but also for the engineering and the construction industry to implement. The adoption of the most current code can also support a reduction in the operational life cycle of the infrastructure.

The adoption of the 2014 NEC will permit business to take advantage of more cost effective infrastructure investment and operational costs through technological advancements. A few examples include:

- Article 646 enables modern data center system investment which supports business critical continuity demands.
- Article 220 in permits lighting load calculations base on the energy code provided energy monitoring is installed. This can drive the cost of the infrastructure investment lower by reducing the size of conductors and equipment.
- Article 517 revises infrastructure requirements that support compliance with Health Care standards making the accreditation process for the health care industry more efficient.

Once again, Schneider Electric urges the OBBS to promptly initiate the review and adoption of the 2014 NEC.

Sincerely,

A handwritten signature in black ink that reads "Jim Pauley". The signature is fluid and cursive, with the first name "Jim" and last name "Pauley" clearly distinguishable.

Jim Pauley  
Sr. Vice President, External Affairs and Government Relations  
[jim.pauley@schneider-electric.com](mailto:jim.pauley@schneider-electric.com)

cc: Tom McDonald – Plant Manager – Schneider Electric, Oxford, OH Facility  
John Blaylock – Director Service Operations – Schneider Electric, West Chester, OH



October 25, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

**Re: IPEX USA LLC Supports Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code® 2011 Edition to the 2014 Edition**

Dear Ms. Hanshaw:

On behalf of IPEX Management Inc., I am writing to express support of the Ohio Electrical Coalition's petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70. For many years, Ohio has championed the standard of excellence by being one of the first states in the nation to adopt the newest edition of the National Electrical Code® – putting the safety of its citizens and economic well-being of its industry first.

Prompt adoption of the most current edition of the NEC is the best way to ensure a uniform and up-to-date standard of electrical safety for all occupants in homes, businesses, institutions, industry and other locations.

By delaying the 2014 NEC adoption, the OBBS will preclude or impede the ability to take advantage of new technologies; updated wiring methods that are safer and may be more cost-effective; and reduce electrical supply chain job opportunities in design, specification, manufacturing, distribution, installation, and inspection.

There are many examples of new or revised code requirements in the 2014 NEC that will enable businesses, government, taxpayers, and industry to take advantage of lower infrastructure start-up and operational costs through new and improved technology. For example, the newly amended voltage thresholds from 600 to 1000 volts that accommodate the higher operating voltages of systems such as photovoltaic and wind power.

IPEX USA LLC urges the OBBS to maintain their tradition of excellence by promptly initiating the review and adoption of the 2014 NEC. If you have any questions, please contact Larry Gill, Codes and Standards Manager at [larry.gill@ipexna.com](mailto:larry.gill@ipexna.com).

Larry Gill, P. Eng  
Codes and Standards Manager  
IPEX USA LLC



**HUBBELL**  
**Lighting**

hubbelling.com

October 22, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

Hubbell Lighting  
701 Millennium Blvd.  
Greenville, SC 29607  
864.678.1000  
hubbelling.com

Re: Hubbell, Incorporated Supports Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code © 2011 Edition to the 2014 Edition

Dear Ms. Hanshaw:

On behalf of Hubbell, Incorporated, I am writing to express support of the Ohio Electrical Coalition's petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70. For many years, Ohio has championed the standard of excellence by being one of the first states in the nation to adopt the newest edition of the National Electrical Code® – putting the safety of its citizens and economic well-being of its industry first.

Hubbell Incorporated supports timely adoption of the National Electrical Code® (NEC) by state and local jurisdictions. We maintain that prompt adoption of the most current edition of the NEC is the best way to ensure a uniform and up-to-date standard of safety for all occupants in the built environment. Current codes mean safer and more economically prosperous communities.

The NEC focuses on the proper installation of electrical systems and equipment to protect people and property from hazards arising from the use of electricity in the built environment. The code also allows for the safe use of new technologies including electric vehicle charging equipment and distributed generation such as solar photovoltaic panels. Should the OBBS delay adoption of the NEC, it will preclude or impede the ability to take advantage of such new technology – new technology that could pave the way to the creation of new jobs; updated wiring methods that are safer and may be more cost-effective; and potentially reduce the number of electrical manufacturing jobs in the state of Ohio. Hubbell Inc. who owns and operates two facilities in Wadsworth and Hamilton Ohio that manufacturers electrical equipment. The Hubbell companies operating in Ohio collectively employ over 200 state residents.

Through adoption of the 2014 NEC, businesses today will be able to take advantage of lower infrastructure start-up and operational costs through new and improved technology. For instance, Article 646 enables advancements for modular data center systems which are becoming prominent in the demand for business systems to meet a 100% up-time for business continuity. Article 393, which includes requirements for low-voltage suspended ceiling power distribution systems, provides an easier and less expensive method of delivering power for general lighting and power loads, and task lighting in an office area.

ALERA LIGHTING  
ARCHITECTURAL  
AREA LIGHTING  
BEACON  
PRODUCTS  
COLUMBIA  
LIGHTING  
COMPASS  
DEVINE LIGHTING  
DUAL-LITE  
HUBBELL BUILDING  
AUTOMATION  
HUBBELL  
INDUSTRIAL  
LIGHTING  
HUBBELL  
OUTDOOR  
LIGHTING  
KIM LIGHTING  
KURT VERSEN  
PRESCOLITE  
PROGRESS  
LIGHTING  
SPAULDING  
LIGHTING  
SPORTSLITER  
SOLUTIONS  
STERNER  
WHITEWAY

Once again, Hubbell urges the OBBS to maintain this tradition of excellence by promptly initiating the review and adoption of the 2014 NEC. If you have any questions, please contact Steven Regnaud, Engineering Services Manager at [slregnaud@hubbell-ltg.com](mailto:slregnaud@hubbell-ltg.com) or 864-678-1303.

Respectfully,

Steven Regnaud  
Engineering Services Manager  
Hubbell Lighting, Inc.  
864-678-1303  
[slregnaud@hubbell-ltg.com](mailto:slregnaud@hubbell-ltg.com)



GE  
Industrial Solutions

Patrick Salas  
Director, Codes & Standards  
41 Woodford Avenue  
Plainville, CT 06062  
860-747-7959

October 21, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

**Re: GE Industrial Solutions Supports Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code® 2011 Edition to the 2014 Edition**

Dear Ms. Hanshaw:

I am writing to express support of the Ohio Electrical Coalition's petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70.

GE Industrial Solutions is a manufacturer of electrical distribution and control equipment. As part of our ongoing commitment to develop and promote product safety, we are actively involved in the development and maintenance of National Electrical Code through several NEMA initiatives.

As a NEMA member, GE Industrial Solutions has always supported the timely adoption of the National Electrical Code® (NEC) by state and local jurisdictions. We believe that a uniform and timely adoption of the latest code improves the installation's reliability and safety of our customer base, and the community in general.

GE Industrial Solutions would like to request initiating the review process to adopt the 2014 edition of NFPA 70.

If you have any questions, please feel free to contact me

Sincerely,

A handwritten signature in black ink, appearing to read 'Patrick G. Salas'.

Patrick G. Salas  
Director, Codes & Standards



ERICO  
34600 Solon Road  
Solon, Ohio 44139  
U.S.A.

Phone: 1-440-248-0100  
Fax: 1-440-248-0723  
www.erico.com

October 22, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

**Re: ERICO Supports Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code® 2011 Edition to the 2014 Edition**

Dear Ms. Hanshaw:

On behalf of the ERICO International, I am writing to express support of the Ohio Electrical Coalition's petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70. For many years, Ohio has championed the standard of excellence by being one of the first states in the nation to adopt the newest edition of the National Electrical Code® – putting the safety of its citizens and economic well-being of its industry first.

ERICO has long supported timely adoption of the National Electrical Code® (NEC) by state and local jurisdictions. We maintain that prompt adoption of the most current edition of the NEC is the best way to ensure a uniform and up-to-date standard of safety for all occupants in the built environment. Current codes mean safer and more economically prosperous communities.

The NEC focuses on the proper installation of electrical systems and equipment to protect people and property from hazards arising from the use of electricity in the built environment. The code also allows for the safe use of new technologies including electric vehicle charging equipment and distributed generation such as solar photovoltaic panels. Should the OBBS delay adoption of the NEC, it will preclude or impede the ability to take advantage of such new technology – new technology that could pave the way to the creation of new jobs; updated wiring methods that are safer and may be more cost-effective; and potentially reduce the number of electrical manufacturing jobs in the state of Ohio.

Through adoption of the 2014 NEC, businesses today will be able to take advantage of lower infrastructure start-up and operational costs through new and improved technology. For instance, Article 646 enables advancements for modular data center systems which are becoming prominent in the demand for business systems to meet a 100% up-time for business continuity. Article 393, which includes requirements for low-voltage suspended ceiling power distribution systems, provides an easier and less expensive method of delivering power for general lighting and power loads, and task lighting in an office area.

ERICO is a leading global manufacturer and marketer of superior engineered electrical and fastening products for niche electrical, mechanical and concrete applications, and in doing so, provide exceptional value to our



ERICO  
34600 Solon Road  
Solon, Ohio 44139  
U.S.A.

Phone: 1-440-248-0100  
Fax: 1-440-248-0723  
[www.erico.com](http://www.erico.com)

customers. ERICO's products are used in the generation, transmission and distribution, control, and end-use of electricity. Based in northeast Ohio, adoption of the 2014 NEC is critical to future economic growth and development.

In closing, ERICO strongly urges the OBBS to maintain this tradition of excellence by promptly initiating the review and adoption of the 2014 NEC. If you have any questions, please contact Michael Gassman (Product Manger) at 440-542-3886.

A handwritten signature in black ink, appearing to read 'Andrew Henderson', is written over a horizontal line. The signature is stylized and cursive.

Andrew Henderson  
Executive Vice President



**Ken Monnier**  
Vice President, Air Conditioning

Emerson Climate Technologies, Inc.  
1675 W. Campbell Rd.  
Sidney, OH 45365

T (937) 498-3763  
M (937) 726-5341  
[Ken.Monnier@Emerson.com](mailto:Ken.Monnier@Emerson.com)

October 25, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

**Re: Emerson Climate Technologies Supports Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code® 2011 Edition to the 2014 Edition**

Dear Ms. Hanshaw:

On behalf of Emerson Climate Technologies, I am writing to express support of the Ohio Electrical Coalition’s petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70. For many years, Ohio has championed the standard of excellence by being one of the first states in the nation to adopt the newest edition of the National Electrical Code® – putting the safety of its citizens and economic well-being of its industry first. Emerson is in the top 10 of manufacturing employers in Ohio (Table 2), as a producer of global electrical/mechanical components and products.



Table 2 Ohio's Leading Manufacturing Employers

Rank	Company	2012	Headquarters Location	Sector
1	General Electric Company	15,000	Fairfield, CT	Aerospace and electrical equipment
2	Procter & Gamble Company	13,600	Cincinnati, OH	Household and personal products
3	Honda Motor Co. Ltd	13,500	Tokyo, Japan	Motor vehicles
4	General Motors Company	10,000	Detroit, MI	Motor vehicles
5	Marathon Petroleum Corporation	9,500	Findlay, OH	Petroleum
6	Whirlpool Corporation	8,300	Benton Harbor, MI	Appliances
7	Berkshire Hathaway Inc	7,600	Omaha, NE	Machinery and fiberglass products
8	Ford Motor Company	5,800	Dearborn, MI	Motor vehicles
9	Emerson Electric Co	5,750	St Louis, MO	Electrical equipment
10	Timken Company	5,000	Canton, OH	Bearings
11	Sherwin-Williams Co	3,700	Cleveland, OH	Paint
12	Swagelok Company	3,600	Solon, OH	Fluid system products
12	Parker Hannifin Corporation	3,600	Cleveland, OH	Industrial equipment
14	AK Steel Holding Corporation	3,500	West Chester, OH	Steel
15	Goodyear Tire & Rubber Company	3,400	Akron, OH	Rubber products
16	Bridgestone Corporation	3,200	Tokyo, Japan	Rubber products
16	Eaton Corporation	3,200	Cleveland, OH	Motor vehicle parts
18	Crown Equipment Corporation	2,800	New Bremen, OH	Lift trucks
19	ArcelorMittal	2,700	Luxembourg, Luxembourg	Steel
20	Lincoln Electric Holdings Inc	2,600	Cleveland, OH	Arc welding equipment
21	McDermott International Inc	2,500	Houston, TX	Power generating equipment
21	Chrysler Group LLC	2,500	Auburn Hills, MI	Motor vehicles
23	Nestle S.A.	2,400	Vevey, Switzerland	Frozen foods
24	Boehringer Ingelheim	2,350	Ingelheim, Germany	Pharmaceuticals
25	Owens Corning	2,340	Toledo, OH	Fiberglass products



**Ken Monnier**  
Vice President, Air Conditioning

Emerson Climate Technologies, Inc.  
1675 W. Campbell Rd.  
Sidney, OH 45365

T (937) 498-3763  
M (937) 726-5341  
[Ken.Monnier@Emerson.com](mailto:Ken.Monnier@Emerson.com)

Emerson Climate Technologies has long supported timely adoption of the National Electrical Code® (NEC) by state and local jurisdictions. We maintain that prompt adoption of the most current edition of the NEC is the best way to ensure a uniform and up-to-date standard of safety for all occupants in the built environment. Current codes mean safer and more economically prosperous communities.

The NEC focuses on the proper installation of electrical systems and equipment to protect people and property from hazards arising from the use of electricity in the built environment. The code also allows for the safe use of new technologies including electric vehicle charging equipment and distributed generation such as solar photovoltaic panels. Should the OBBS delay adoption of the NEC, it will preclude or impede the ability to take advantage of such new technology – new technology that could pave the way to the creation of new jobs; updated wiring methods that are safer and may be more cost-effective; and potentially reduce the number of electrical manufacturing jobs in the state of Ohio.

Through adoption of the 2014 NEC, businesses today will be able to take advantage of lower infrastructure start-up and operational costs through new and improved technology. For instance, Article 646 enables advancements for modular data center systems which are becoming prominent in the demand for business systems to meet a 100% up-time for business continuity.

Article 393, which includes requirements for low-voltage suspended ceiling power distribution systems, provides an easier and less expensive method of delivering power for general lighting and power loads, and task lighting in an office area.

Once again, Emerson Climate Technologies urges the OBBS to maintain this tradition of excellence by promptly initiating the review and adoption of the 2014 NEC. If you have any questions, please contact Deana Dennis, Manager of State Government Relations, at [deana.dennis@nema.org](mailto:deana.dennis@nema.org) or (703) 841-3244.

Sincerely,

A handwritten signature in black ink that reads "Ken Monnier". The signature is fluid and cursive, with a long horizontal stroke at the end.

Ken Monnier  
Vice President – Engineering  
Air Conditioning Division



October 25, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

**Re: Eaton Supports Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code® 2011 Edition to the 2014 Edition**

Dear Ms. Hanshaw:

The purpose of my letter is to express support of the Ohio Electrical Coalition's petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70. For many years, Ohio has championed the standard of excellence by being one of the first states in the nation to adopt the newest edition of the National Electrical Code® – putting the safety of its citizens and economic well-being of its industry first.

Eaton employs 3,204 at 11 facilities in the State of Ohio. Our employees in Ohio provide market leading solutions in power distribution, power quality, control and automation, power monitoring, and energy management services. Eaton engineers, manufactures, and manufactures many products in Ohio that are installed in residential homes, commercial buildings, industrial facilities and utilities.

Eaton has long supported timely adoption of the National Electrical Code® (NEC) by state and local jurisdictions. We maintain that prompt adoption of the most current edition of the NEC is the best way to ensure a uniform and up-to-date standard of safety for all occupants in the built environment. Current codes mean safer and more economically prosperous communities.

The NEC focuses on the proper installation of electrical systems and equipment to protect people and property from hazards arising from the use of electricity in the built environment. The code also allows for the safe use of new technologies including electric vehicle charging equipment and distributed generation such as solar photovoltaic panels.

Eaton respectfully requests that the Ohio Board of Building Standards review and adopt the 2014 edition of NFPA 70. Please do not hesitate to contact me should you have any questions regarding this matter.

Sincerely,

A handwritten signature in black ink that reads "Thomas A. Domitrovich". The signature is written in a cursive style.

Thomas A. Domitrovich  
National Application Engineer – Codes and Standards



October 23, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

**Re: Connector Manufacturing Company (CMC), a NEMA Member and wholly owned subsidiary of BURNDY LLC, Supports Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code® 2011 Edition to the 2014 Edition**

Dear Ms. Hanshaw:

On behalf of Connector Manufacturing Company (CMC), I am writing to express support of the Ohio Electrical Coalition's petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70. For many years, Ohio has championed the standard of excellence by being one of the first states in the nation to adopt the newest edition of the National Electrical Code® – putting the safety of its citizens and economic well-being of its industry first.

Through NEMA, CMC has long supported timely adoption of the National Electrical Code® (NEC) by state and local jurisdictions. We maintain that prompt adoption of the most current edition of the NEC is the best way to ensure a uniform and up-to-date standard of safety for all occupants in the built environment. Current codes mean safer and more economically prosperous communities.

The NEC focuses on the proper installation of electrical systems and equipment to protect people and property from hazards arising from the use of electricity in the built environment. The code also allows for the safe use of new technologies including electric vehicle charging equipment and distributed generation such as solar photovoltaic panels. Should the OBBS delay adoption of the NEC, it will preclude or impede the ability to take advantage of such new technology – new technology that could pave the way to the creation of new jobs; updated wiring methods that are safer and may be more cost-effective; and potentially reduce the number of electrical manufacturing jobs in the state of Ohio.

Through adoption of the 2014 NEC, businesses today will be able to take advantage of lower infrastructure start-up and operational costs through new and improved technology. For instance, Article 646 enables advancements for modular data center systems which are becoming prominent in the demand for business systems to meet a 100% up-time for business continuity. Article 393, which includes requirements for low-voltage suspended ceiling power distribution systems, provides an easier and less expensive method of delivering power for general lighting and power loads, and task lighting in an office area.

Our membership with NEMA is vital to our success. NEMA is the trade association of choice for the electrical equipment and medical imaging manufacturing industry. We are approximately 400 member companies that manufacture products used in the generation, transmission and distribution, control, and end-use of electricity. NEMA member companies have a significant presence in the state of Ohio representing 47 companies with well



over 100 manufacturing and engineering facilities that support the state's economy. Member companies in Ohio collectively employ over 15,000 state residents.

Once again, CMC as a member of NEMA urges the OBBS to maintain this tradition of excellence by promptly initiating the review and adoption of the 2014 NEC. If you have any questions, please contact Deana Dennis, Manager of State Government Relations of NEMA, at [deana.dennis@nema.org](mailto:deana.dennis@nema.org) or (703) 841-3244.

Sincerely,

A handwritten signature in black ink, appearing to read 'Chris Chadbourne', with a long horizontal line extending to the right.

---

**Chris Chadbourne**

Vice President, Utility Business Team  
BURNDY LLC

Chair, NEMA 8CC Technical Committee  
Member, NEMA 8CC Section Committee

cc: Alan Beck, VP & GM, Connector Manufacturing Corporation  
Deana Dennis, Manager of State Government Relations, NEMA



October 25, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

**Re: Atkore International Supports Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code® 2011 Edition to the 2014 Edition**

Dear Ms. Hanshaw:

I am writing on behalf of Atkore International to express support for the Ohio Electrical Coalition's petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70.

Atkore International has three business units that operate five facilities in the state of Ohio: AFC Cable Systems, Allied Tube & Conduit, and Atkore Plastic Pipe and Conduit (formerly Heritage Plastics). We manufacture armored cables, razor ribbon, plastic plumbing pipe and PVC conduit in our Ohio facilities.

As a member of the National Electrical Manufacturers Association (NEMA), we have long supported timely adoption of the National Electrical Code® (NEC) by state and local jurisdictions. We maintain that prompt adoption of the most current edition of the NEC is the best way to ensure a uniform and up-to-date standard of safety for all occupants in the built environment. Current codes mean safer and more economically prosperous communities.

We urge the OBBS to maintain its tradition of excellence by promptly initiating the review and adoption of the 2014 NEC.

Sincerely,

A handwritten signature in dark ink that reads 'Elaine Thompson'.

Elaine Thompson  
Director of Industry Affairs  
Atkore International  
Phone: 708-225-2069  
Email: [ethompson@atkore.com](mailto:ethompson@atkore.com)



Columbia-MBF



KAF-TECH



UNISTRUT

COPE



UNISTRUT Construction





## **ALLIED MOULDED PRODUCTS, INC.**

222 North Union Street  
Bryan, Ohio 43506-1450  
Phone 419-636-4217  
Fax: 419-636-2450  
[www.alliedmoulded.com](http://www.alliedmoulded.com)

October 22, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

**Re: Allied Moulded Products Supports Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code® 2011 Edition to the 2014 Edition**

Dear Ms. Hanshaw:

I am writing to express support of the Ohio Electrical Coalition's petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70. For many years, Ohio has championed the standard of excellence by being one of the first states in the nation to adopt the newest edition of the National Electrical Code® – putting the safety of its citizens and economic well-being of its industry first.

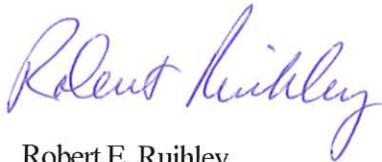
The NEC focuses on the proper installation of electrical systems and equipment to protect people and property from hazards arising from the use of electricity in the built environment. The code also allows for the safe use of new technologies including electric vehicle charging equipment and distributed generation such as solar photovoltaic panels. Should the OBBS delay adoption of the NEC, it will preclude or impede the ability to take advantage of such new technology – new technology that could pave the way to the creation of new jobs; updated wiring methods that are safer and may be more cost-effective; and potentially reduce the number of electrical manufacturing jobs in the state of Ohio.

Allied Moulded Products is an Ohio based manufacturer of non-metallic electrical enclosures for residential, commercial and industrial applications in the global marketplace. The company employs over 250 Ohio residents in its Bryan manufacturing facilities. Additional employment is realized through company vendors and the sales and distribution of its products in Ohio.

In addition to the employment, the adoption of the 2014 NEC allows manufacturers such as Allied Moulded Products along with its vendors and customers will be able to take advantage of lower infrastructure start-up and operational costs through new and improved technology. For instance, Article 646 enables advancements for modular data center systems which are becoming prominent in the demand for business systems to meet a 100% up-time for business continuity. Article 393, which includes requirements for low-voltage suspended ceiling power distribution systems, provides an easier and less expensive method of delivering power for general lighting and power loads, and task lighting in an office area.

Once again, I urge the OBBS to maintain this tradition of excellence by promptly initiating the review and adoption of the 2014 NEC. If you have any questions, please contact me at Allied Moulded Products at (419) 636-4217.

Sincerely,



Robert E. Rauhley  
Vice President of Operations  
Allied Moulded Products  
Bryan, Ohio 43506



---

October 23, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

**Re: NEMA Supports Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code® 2011 Edition to the 2014 Edition**

Dear Ms. Hanshaw:

As a manufacturer of steel tubular products with four operational facilities in Ohio employing over 300 people, I am writing in support of the Ohio Electrical Coalition's petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition.

Through adoption of the 2014 NEC, businesses today will be able to take advantage of lower infrastructure start-up and operational costs through new and improved technology. We maintain that prompt adoption of the most current edition of the NEC is the best way to ensure a uniform and up-to-date standard of safety for all occupants in the built environment. Current codes mean safer and more economically prosperous communities.

Should the Ohio Board of Building Standards delay adoption of the NEC, it will preclude or impede the ability to take advantage of new technology that could pave the way to the creation of new jobs; updated wiring methods that are safer and may be more cost-effective; and potentially reduce the number of electrical manufacturing jobs in the state of Ohio.

Failures to timely adopt NFPA 70 will in many cases preclude or impede the opportunity to take advantage of:

- Revised requirements that enable the use of technology that drives down the cost of operational expenses that enable business to be more competitive and reduces the burden of operational expenses of not only businesses and industry, but also taxpayers.
- New wiring methods that may be safer and more cost-effective to install.
- New equipment that allows for a safer interface with devices that delivers electrical power.
- New devices that further the fire and shock protection mission of the Code.
- New electrical power production sources such as solar and wind systems.

Sincerely,

A handwritten signature in cursive script that reads "James W. Hays". The signature is written in black ink and is positioned above the printed name and title.

James W. Hays  
President Electrical, Fence & Mechanical



**"Let the Code Decide"**  
**OHIO CHAPTER**  
**International Association of**  
**Electrical Inspectors**

**President**

Steve Nagy  
Northwest Division

October 23, 2013

Ohio Board of Building Standards

6606 Tussing Rd  
Reynoldsburg, OH 43068

**First Vice-President**

Kenneth Bolyard  
West Virginia Division

**Second Vice-President**

Jeff Grassi  
Western Reserve Division

Subject: 2014 NFPA 70, National Electrical Code (NEC) Update

The Ohio Chapter IAIEI strongly encourages the Ohio Board of Building Standards to update its current NFPA 70, from the 2011 edition to the 2014 edition for Ohio Building Code regulate occupancies and supports the petition submitted on behalf of the Ohio Code Coalition. The OBBS has proven time and time again that they are at the forefront of public safety by adopting codes that ensure the health, safety and security of the occupants or users of buildings.

**Immediate Past-President**

Jack Jamison  
West Virginia Division

The NEC provides for the practical safeguarding of persons and property from the hazards arising from the use of electricity.

**Secretary/Treasurer**

Lorenzo Adam  
Southwest Division

**Inspector Member**

Caty Robinson  
Southwest Division

In addition to new requirements to address advancing alternative technologies and improved safety for the electrical worker, the 2014 NEC also expands important safety requirements for dwelling unit occupancies. While expansion of important safety requirements may add cost, the 2014 NEC also includes requirements that provide economic relief. A new exception for general lighting load calculations provides the option to utilize the energy code for calculations, in lieu of the NEC. This may provide substantial cost savings where utilizing this provision in various OBC occupancies. The requirement to provide a grounded conductor at all switch locations now includes specific areas where this will not be required.

**Inspector Member**

Vacant  
Akron Division

Attached is a cost impact analysis for dwelling unit occupancies governed by the Ohio Building Code. This illustrates the changes in the 2014 NEC will have a minimal cost impact, while providing enhanced protection for occupants in a dwelling unit.

**Inspector Member**

Mike Koken  
Eastern Division

**Inspector Member**

Karl Frederick  
Central Division

**Associate Member**

Ronald F. Schapp  
Southwest Division

The Ground Fault Circuit Interrupter (GFCI) is well recognized as a key safety device in the electrical system that protects us and our children from electrocution hazards. Since the introduction of the GFCI in the 1971 NEC, published data from the U.S. Consumer Product Safety Commission (CPSC) show a decreasing trend in the number of electrocutions in the United States.

**Membership Chairman**

Jack Jamison  
West Virginia Division

**Western Section**

**Chapter Representative**  
Thomas E. Moore

The Arc Fault Circuit Interrupter (AFCI) became part of the NEC in the 1999 edition and is an advanced circuit breaker technology that not only protects from short circuit, ground fault and overcurrent conditions, but also mitigates dangerous arcing conditions that can cause a fire. The 2014 NEC has been expanded to provide additional methods to provide

**Education Chairman**

Michael Mihalisin

**Historian**

Kenneth Bolyard

this enhanced AFCI protection, by providing other optional methods employing an outlet branch circuit device.

The 2014 NEC also expands these important safety devices into the kitchen and laundry areas of dwelling units. Additionally, GFCI protection is also extended to other optional areas of dwellings, such as any receptacle within six foot of a kitchen sink, protection for dishwashers, and shower or bathtub areas not located in a bathroom.

The Ohio Chapter IAEI Board of Directors respectfully request the OBBS move forward with updating the NFPA 70, NEC, to the 2014 edition. Embracing these requirements by updating to the 2014 NEC is an important step forward with public safety.

Respectfully,

Board Members of the Ohio Chapter IAEI



	<b>15 and 20 ampere Receptacles in wet locations</b>	<b>Materials</b>	<b>Cost</b>
<b>406.9(B)</b>	New revision requires the use of an "extra duty" outlet box hood for all receptacles installed in a wet location. Dwelling units that fall under the scope of the OBC in accordance with NEC 210.52(E)(2) are required to have one receptacle where the dwelling unit is located at grade level.	Extra Duty" weatherproof cover:  Standard in-use weatherproof cover:	\$13.22  -6.52
		<b>Cost Impact:</b>	<b>\$6.70</b>
	<b>Receptacle Outlets required in garages</b>	<b>Materials</b>	<b>Cost</b>
<b>210.52(G)(1)</b>	New requirement to install a receptacle outlet for each car space in a dwelling unit garage. Text Only required for an attached or unattached dwelling unit garage with electric power.	Single gang new work box: Tamper resistant 15 amp receptacle: Duplex receptacle cover: Average 10' of 14-2 WG type NM-B cable:	\$ .35 1.04 .24 1.92
		<b>Cost Impact per garage space in excess of one:</b>	<b>\$3.52</b>
	<b>GFCI protection for dishwashers in dwellings</b>	<b>Materials</b>	<b>Cost</b>
<b>210.8(D)**</b>	New requirement to require GCFI protection for dishwashers installed in dwellings. Dishwashers are not required and may be installed as an option. This cost is included as most dwellings include a Dishwasher.	TR GFCI receptacle:  Replaces standard 15 amp TR receptacle:	\$9.96  -1.04
		<b>Cost Impact:</b>	<b>\$8.92</b>
	<b>GFCI Protection for receptacles in kitchens other than countertops</b>	<b>Materials</b>	<b>Cost</b>
<b>210.8(A)(7)**</b>	Revised to require GFCI protection of 125-volt, 15 and 20 ampere receptacles installed within 6 Ft. of a kitchen sink that are not covered by the countertop rule in 210.8(A)(6). These receptacles are not required and could be installed for option equipment.	TR GFCI receptacle:  Replaces standard 15 amp TR receptacle:	\$9.96  -1.04
		<b>Cost Impact:</b>	<b>\$8.92</b>

\*This Cost Impact Analysis does not include labor. Attached materials quotes are for over the counter prices. Purchase in larger quantities may warrant further savings.



# QUOTATION

WWW.WOLFFBROS.COM

Quote No. 00020899

S Michael Huttinger Trade Acc T  
O 565 N Applecreek Rd  
L Wooster OH 44691-9599  
D  
T  
O

S Michael Huttinger Trade Acc T  
H 565 N Applecreek Rd  
I Wooster OH 44691-9599  
P  
T  
O

Quote Prepared By: PHIL BUMGARDNER  
(330) 264-5900 EXT. 243

565 North Applecreek Road  
Wooster, OH 44691-9599

TERMS: Customer is responsible for verifying that material purchased is correct for the application. No materials are to be returned without our permission. Cut lengths of pipe, cable, and fabricated items are not returnable. Special order returns also require manufacturer approval. All returned items except defectives must be in like-new condition and packaged as originally received. Returnable items must be returned within 90 days of invoice date. Returns are subject to a Wolff Bros. Supply minimum 15% restocking fee. All special order returns are subject to additional manufacturer restocking fees plus return freight and handling costs. Item credit pricing will be net of restocking charges. For defective material, no allowances will be made beyond the manufacturer's warranty. Claims for billing discrepancies or pricing errors must be made within 10 working days of invoice date. A 2% per month service charge will be invoiced to your account on all past due balances.

CUSTOMER NO.	CUSTOMER ORDER NO.	SLSM.	ENTRY DATE	WHS	EXP. DATE	ORDERED BY	PAGE
67302	VERBAL	673	10/16/2013	WOO	10/31/2013	TOM MOORE	1

Qty.	Item Number	Description	Price	Ext. Price
1	QO120CAFI	1P 20AMP COMBO ARC FAULT BRK	46.4000 EA	46.40
1	LEVAFT2I	AFCI RECEPT 20A TR 120V IV	30.5000 EA	30.50
1	INTWP3100C	WP IN USE OUTLET COVER CLEAR	6.5225 EA	6.52
1	INTWP1010MXD	WP IN-USE DIE-CAST VERT 1G	13.2188 EA	13.22
1	PNS1595TRI	GFCI REC TPR-RES 5-15R 15A IV	14.6666 EA	14.67
1	ALM1096N	BOX FG NAIL ON 1G SW 18CU	.3470 EA	.35
1	PNS3232TRI	REC 5-15R DPLX TR 15A 125V IV	1.0448 EA	1.04
1	PNSTP8I	WALLPLATE 1G DUPLEX NYL IV	.2393 EA	.24
250	WCNMB14/2G	14/2 W/GRD NM-B COPPER X CL	191.7600 MF	47.94

**Subtotal 160.88**  
**Plus Tax**  
**Total**

*Quotation does not include SALES TAX if applicable.*

*Prices are subject to change without notice. # Special order items may not be returnable.  
DELIVERY CHARGES: A delivery charge will be added to deliveries that are less than \$500; deliveries \$500 and over will be prepaid. UPS and special freight charges will also be invoiced.*

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Add \$8.68\* to your cart to receive FREE Shipping on eligible items. See Details

	Ship To Home or Pick Up In Store	Unit Price	Quantity	Item Total	
 <p><b>Square D by Schneider Electric QO 15 Amp Single-Pole Circuit Breaker</b> Model # QO115CP</p>	<p><b>Ship to Home (From \$2.99)</b> Est. Arrival Date: OCT 29 - OCT 31</p>	\$6.44	1	<b>\$6.44</b>	
	<p><b>Pick Up in Store Free</b> 29 In Stock Today at: <b>Maple Heights #3804</b> Maple Heights, OH 44137 <a href="#">Change Pick Up Store</a></p>				<p><a href="#">ADD TO LIST</a> <a href="#">REMOVE</a></p>
 <p><b>Leviton SmartLockPro 15 Amp Slim Tamper-Resistant Duplex GFCI Outlet (3-pack) - White</b> Model # M12-X7599-R3W</p>	<p><b>Ship to Home (From \$3.00)</b> Est. Arrival Date: OCT 31 - NOV 4</p>	\$29.88	1	<b>\$29.88</b> (3 Pack) 9.96@	
	<p><b>Pick Up in Store Free</b> 22 In Stock Today at: <b>Maple Heights #3804</b> Maple Heights, OH 44137 <a href="#">Change Pick Up Store</a></p>				<p><a href="#">ADD TO LIST</a> <a href="#">REMOVE</a></p>

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1-800-430-3376

Major Appliances:

1-800-455-3869

Call 7 days a week - 6 a.m. to 2 a.m. EST



Merchandise Subtotal **\$36.32**

\*Estimated Shipping **\$5.99**

Sales Tax (determined in later step) **---**

**Estimated Subtotal \$42.31**

\* Shipping is calculated on lowest rate shipping method available other shipping methods available on next page

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## RECOMMENDATIONS INSPIRED BY YOUR RECENT BROWSING HISTORY

# PROPOSAL

# LARKIN ELECTRIC CO.,LLC.

Commercial • Residential • Industrial

408 LEXOW AVE.  
DAYTON, OHIO 45419

Owner: Daniel E. Larkin  
www.Larkinelectric.com

Phone: 937-294-4115  
Fax: 937-294-2436

ATTN:	FAX:	DATE: <b>10/23/2013</b>
PROPOSAL SUBMITTED TO: <b>ABC Construction Co.</b>	PHONE:	
STREET:	JOB NAME: <b>Dwelling</b>	
CITY, STATE, AND ZIP CODE: <b>Dayton, Ohio 45402</b>	JOB LOCATION: <b>Dayton, Ohio</b>	

WE HEREBY SUBMIT SPECIFICATIONS AND ESTIMATES FOR:

Estimate for a 2500sq' 3 bedroom 2 bath dwelling with a full basement and 2 car attached garage.  
½ of the basement is finished.

Basic requirements as per the 2011 NEC.

200 amp 120/240 v 1 phase underground service with ALU conductor.

All branch circuits are copper.

Kitchen disposal / dishwasher circuit.

Switched outlets for the bedrooms.

Luminaires included are keyless for the basement and attic and 1 closet fluorescent light.

2, 50 cfm bathroom ceiling fans. Ducting by others

30 amp 240 volt AC circuit and Nema 3R disconnect.

50 amp Range circuit.

Post light circuit is not included.

Water heater is natural gas and has no power related equipment.

1 furnace 120v blower circuit. (heat is natural gas)

Owner to supply interior and exterior luminaires. ( hall way, dining room, Kitchen, bathrooms and 3 outside)

Permit cost not included. Ohio sales tax included on material.

Total Parts and Labor.....\$9,150.00

Alt 1.

To comply with the 2014 NEC

Add:

4 AFCI Breakers (2 kitchen circuits, 1 washer, 1 disposal/ dishwasher circuit.)

1 readily accessible GFI dead-front device for the disposal/dishwasher circuit.

1 additional GFI protected receptacle in the garage for the 2<sup>nd</sup> car area.

Total for Alt 1.....\$280.17

We Propose hereby to furnish material and labor- complete in accordance with above specification, for the sum of:

**Nine Thousand One Hundred and Fifty Dollars and 00/100.....**

<b>PAYMENT NET 30 DAYS</b>	<b>\$9,150.00</b>
--------------------------------	-------------------

All material is guaranteed to be specified. All work to be completed in a workmanlike manner according to standard practices. Any alterations or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the written estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workman's Compensation insurance.

**Date:**  
This proposal may be withdrawn by us if not accepted within 30 days.

Authorized Signature  
*Daniel E. Larkin*

**Acceptance of Proposal** The above price, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above

Date Accepted	Signature	Signature
---------------	-----------	-----------

# PROPOSAL

## LARKIN ELECTRIC CO.,LLC.

**Commercial • Residential • Industrial**

408 LEXOW AVE.  
DAYTON, OHIO 45419

Owner: Daniel E. Larkin  
www.Larkinelectric.com

Phone: 937-294-4115  
Fax: 937-294-2436

ATTN:	FAX:	DATE: <b>10-23-13</b>
PROPOSAL SUBMITTED TO: <b>ABC Construction Co.</b>	PHONE:	
STREET:	JOB NAME: <b>Park Concessions Stand and Restrooms</b>	
CITY, STATE, AND ZIP CODE: <b>Dayton, Ohio 45402</b>	JOB LOCATION: <b>Dayton, Ohio</b>	

Labor and material for the construction of concessions and restroom facility.

This is a concrete block building with a wood structure roof. Total 1470 Sq'.  
2 ADA restrooms, a walkup concession area and a mechanical room.

- Supply and install 200 panel 1 phase 120/240 v service equipment as per plans (underground not included)
- Supply and install lighting as per plans. Surface mounted 4' led luminaires
- Supply and install power and receptacles as per plans, including power to heaters
- Supply and install light switching as per plans
- Assist masons with installation of boxes in block
- Heaters, hand dryers and fans supplied by others
- Mechanical, field equipment and pipe chase rooms to be surface mount wiring
- Permits and taxes

Alt 1.

To comply with the 2014 code

**There are no significant changes for this particular project that would increase our proposal.**

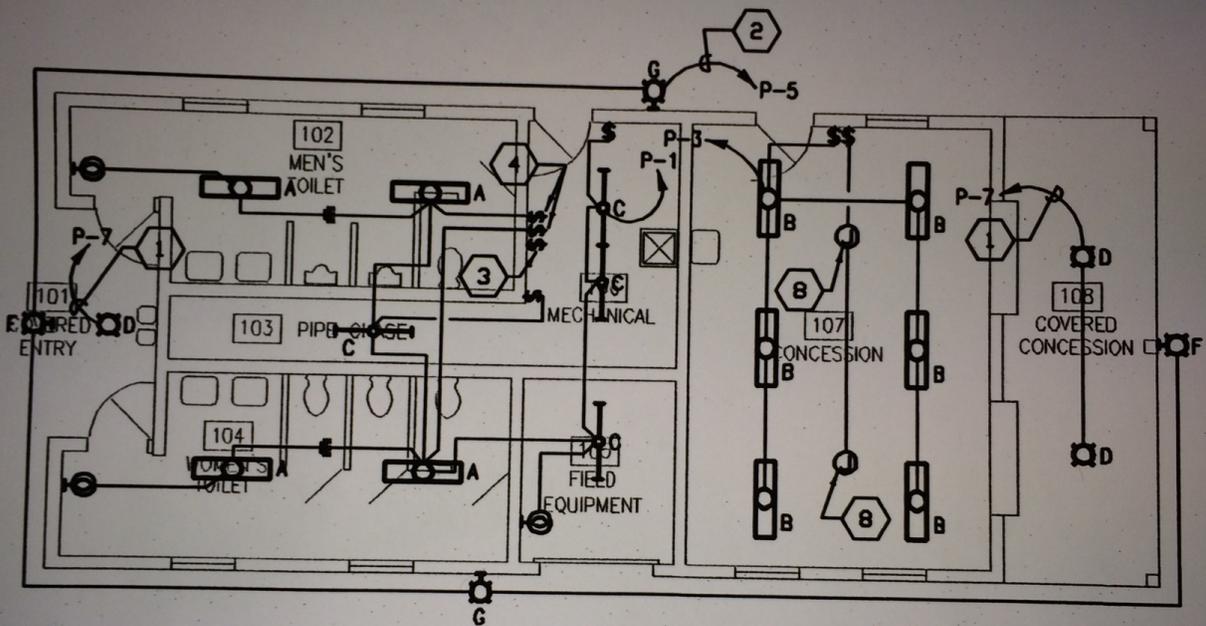
<b>Twenty Seven Thousand Three Hundred Eleven Dollars and 00/100.....</b>	<b>PAYMENT NET 30 DAYS</b>	<b>\$27,311.00</b>
---	--------------------------------	--------------------

All material is guaranteed to be specified. All work to be completed in a workmanlike manner according to standard practices. Any alterations or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the written estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workman's Compensation insurance.

<b>Date:</b> <b>This proposal may be withdrawn by us if not accepted within 30 days.</b>	Authorized Signature
---	----------------------

**Acceptance of Proposal** The above price, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above

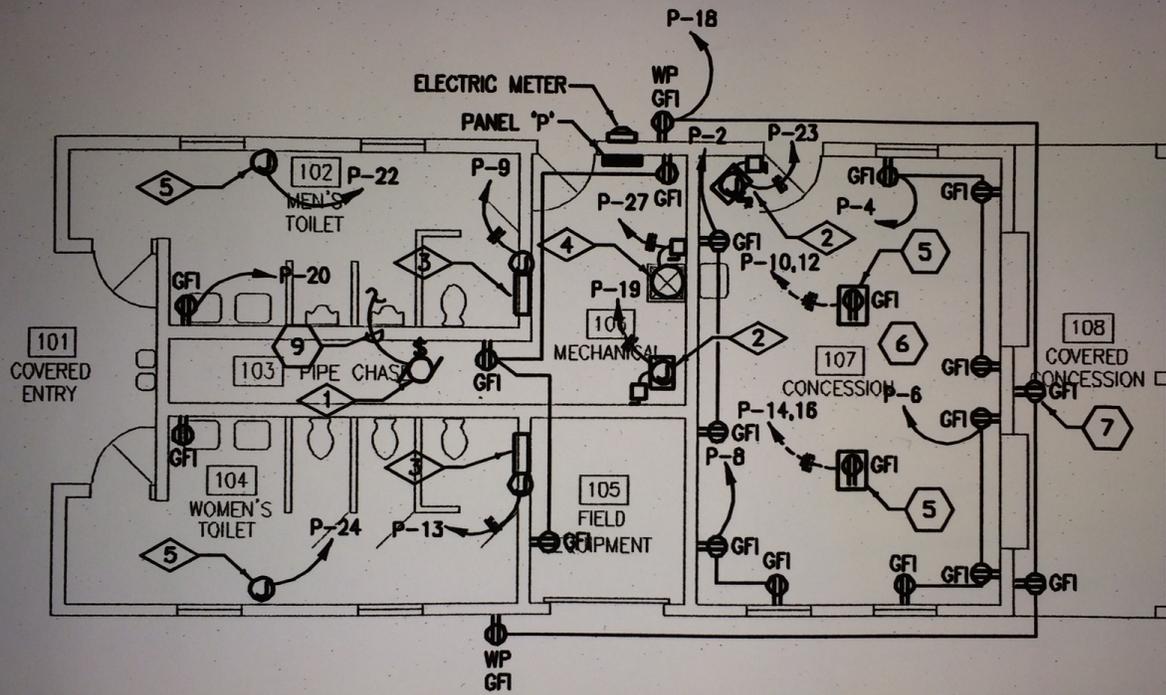
Date Accepted	Signature	Signature
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# LIGHTING FLOOR PLAN

SCALE: 1/8"=1'-0"





# POWER FLOOR PLAN

SCALE: 1/8" = 1'-0"



## The Importance of Adopting the Latest Edition Of the National Electrical Code®

The undersigned members of the Electrical Code Coalition support direct adoption of the latest edition of the *National Electrical Code*. Direct adoption means that it is not adopted through a building code or other standard, but is directly adopted through direct legislative or administrative action. Direct action ensures that the requirements are not dependent on a code that is unrelated or only peripherally related.

*The latest edition represents the latest technological advances.* The NEC is revised every three years. Each edition goes through an extensive public vetting process to ensure that it meets technical and societal needs for minimum electrical safety.

*Building inspection departments are evaluated by the Insurance Services Office (ISO) based on use of up-to-date Codes and Standards.* Adoption of the latest edition of the NEC can result in lower insurance premiums for property owners in a jurisdiction.

*The National Electrical Code is responsive.* The Code is revised every three years to ensure that the requirements take into account the latest in technology and safety. This ANSI-based consensus process includes expertise from installers, inspectors, electric utilities, testing laboratories, manufacturers and others.

*Industry training programs and industry magazines and other resources support the current edition.* When the new edition is released, all of the industry resources switch their focus to the new edition. All of the trade magazines and industry web sites want to provide up-to-date information.

*Electricians and electrical inspectors trained and working to the current edition have increased opportunities.* Uniform adoption of the latest edition NEC across jurisdictions will help open up opportunities for electricians, contractors, and inspectors to work in various jurisdictions since they will all have been trained to the same technologically current, safety oriented code.

### The Electrical Code Coalition: An Industry Coalition Supporting Qualified Electrical Inspectors



Thomas R. Kuhn, President  
Edison Electric Institute



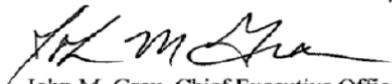
Larry Mullins, Executive Vice President and CEO  
Independent Electrical Contractors



David E. Clements, CEO and Executive Director  
International Association of Electrical Inspectors



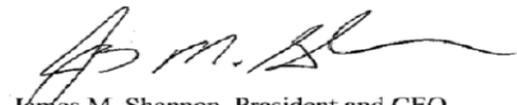
Edwin D. Hill, International President  
International Brotherhood of Electrical  
Workers



John M. Grau, Chief Executive Officer  
National Electrical Contractors Association



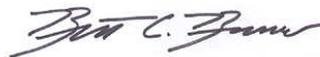
Evan R. Gaddis, President and CEO  
National Electrical Manufacturer's Association



James M. Shannon, President and CEO  
National Fire Protection Association®



Keith Williams, President and CEO  
Underwriters Laboratories Inc.



Brett Brenner, President  
Electrical Safety Foundation Intl. (ESFI)

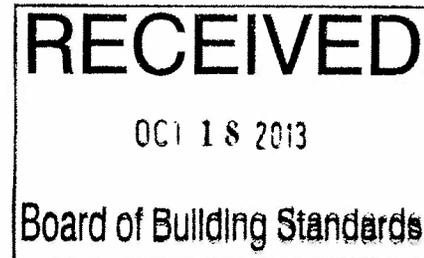


# Ohio Fire Chiefs' Association

*Ohio's Premier Fire & Emergency Service Leadership Association*

October 17, 2013

Ohio Board of Building Standards  
Attn: Ms. Regina Hanshaw, Executive Secretary  
6606 Tussing Road  
Reynoldsburg, Ohio 43068



Re: Support for Petition to Update Referenced Standard (NFPA 70) to National Electric Code 2014 Edition

Dear Members of the Ohio Board of Building Standards:

I am writing to you on behalf of the Board of Directors of the Ohio Fire Chiefs' Association. The Board of Directors has voted to support the Ohio Board of Building Standards adoption of the updated Referenced Standard NFPA 70 to the National Electric Code 2014 Edition. There are several reasons to support adopting the 2014 National Electric Code.

Adopting the current cycle of an electrical code keeps pace with changes and updates in electrical safety technology, methods, and products. It also enacts an electrical code that has responded in a timely manner to industry and societal needs, i.e., ensuring that minimum safety requirements are in place for wind and solar energies for first responders working on roofs and makes certain that expanding electric vehicle charging infrastructure will meet the demands of the industry and public safety. It provides an electrical code that facilitates the implementation of a document that is up to date with current industry technology and methods. It provides an electrical code that allows consumers to derive the benefit of electrical installations incorporating equipment and methods that provide the latest advancements in electrical safety including protecting homes and dormitories from fires of electrical origin and protecting people from electric shock in homes and workplaces.

On behalf of Ohio's fire service, we encourage the Ohio Board of Building Standards to adopt the 2014 National Electric Code. Adoption will ensure that Ohio remains at the forefront of developments in the electrical industry and that electrical systems are safe for our citizens, businesses, and firefighters across Ohio. Thank you for your time and consideration. If you have any further questions or concerns, please do not hesitate to contact me.

Yours in public safety,

Chief Porter R. Welch, J.D.  
President, Ohio Fire Chiefs' Association, Inc.

# International Brotherhood of Electrical Workers



**MARIO CIARDELLI**  
Business Manager & Financial Secretary

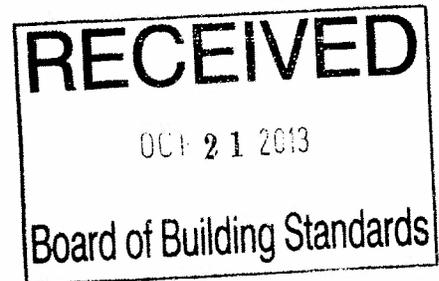
**DENNIS L. NICODEMUS**  
President

## **Local Union No. 683**

23 West Second Avenue, P.O. Box 8127, Columbus, Ohio 43201-0127  
Phone: (614) 294-4786 • FAX (614) 294-3920

October 18, 2013

Ms. Regina Hanshaw, Executive Secretary  
OHIO BOARD OF BUILDING STANDARDS  
6606 Tussing Road  
Reynoldsburg, Ohio 43068



Dear Board Members:

I am writing on behalf of the members of the International Brotherhood of Electrical Workers, Local Union 683, regarding the matter of adopting the NFPA 70 standards in the 2014 National Electric Code.

It is my understanding that these vital changes in the NEC may not be adopted and this is an injustice to every family who has a loved one hurt by an accident that could have been avoided. First responders will be required to have the knowledge and tools to do their jobs safely when coming in contact with new renewable energy resources such as solar and wind power supplies. The requirements of the standard protect workers to the point where a severe electrical burn or death caused by an electrical explosion would be reduced to minor or non-issues because of the personal protection equipment, the assessment required of dangerous situations, and the planning for safe work under those conditions.

In my 35 years as an electrician I have seen the devastation that happens when an electrical fault occurs. I know some of the victims of these accidents, and I never want to see someone hurt by this again. I.B.E.W. Local Union 683, along with our signatory employers and training partners, have adopted the training and commitment to our members that we will follow the standards and aspire to not have serious consequences to our people working in an industry that has unforeseen hazards possible every day.

*Pride in Workmanship*

Ms. Hanshaw  
OHIO BOARD OF BUILDING STANDARDS  
October 18, 2013  
Page 2

By adopting the 2014 NEC, we will help to insure that everyone who works under these conditions has the opportunity to return home in the same physical condition as they came to work that day. Please consider adopting the new NEC changes to protect workers and the families they need to come home to each night.

Sincerely,

I.B.E.W. LOCAL UNION 683



Mario Ciardelli  
Business Manager/Financial Secretary

MC/cab



**EYE LIGHTING  
INTERNATIONAL**

October 25, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068



**Re: NEMA Supports Ohio Electrical Coalition Petition to Update Referenced Standard (NFPA 70) National Electrical Code® 2011 Edition to the 2014 Edition**

Dear Ms. Hanshaw:

On behalf of the National Electrical Manufacturers Association (NEMA), I am writing to express support of the Ohio Electrical Coalition's petition to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70. For many years, Ohio has championed the standard of excellence by being one of the first states in the nation to adopt the newest edition of the National Electrical Code® – putting the safety of its citizens and economic well-being of its industry first.

NEMA has long supported timely adoption of the National Electrical Code® (NEC) by state and local jurisdictions. We maintain that prompt adoption of the most current edition of the NEC is the best way to ensure a uniform and up-to-date standard of safety for all occupants in the built environment. Current codes mean safer and more economically prosperous communities.

The NEC focuses on the proper installation of electrical systems and equipment to protect people and property from hazards arising from the use of electricity in the built environment. The code also allows for the safe use of new technologies including electric vehicle charging equipment and distributed generation such as solar photovoltaic panels. Should the OBBS delay adoption of the NEC, it will preclude or impede the ability to take advantage of such new technology – new technology that could pave the way to the creation of new jobs; updated wiring methods that are safer and may be more cost-effective; and potentially reduce the number of electrical manufacturing jobs in the state of Ohio.

Through adoption of the 2014 NEC, businesses today will be able to take advantage of lower infrastructure start-up and operational costs through new and improved technology. For instance, Article 646 enables advancements for modular data center systems which are becoming prominent in the demand for business systems to meet a 100% up-time for business continuity. Article 393, which includes requirements for low-voltage suspended ceiling power distribution systems, provides an easier and less expensive method of delivering power for general lighting and power loads, and task lighting in an office area.

**EYE Lighting International of North America, Inc.**  
*a division of Iwasaki Electric of Japan*

9150 Hendricks Road  
Mentor, Ohio 44060

Tel: (440) 350-7000  
Fax: (440) 350-7001

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# EYE LIGHTING INTERNATIONAL

NEMA is the trade association of choice for the electrical equipment and medical imaging manufacturing industry. The approximately 400 member companies manufacture products used in the generation, transmission and distribution, control, and end-use of electricity. NEMA member companies have a significant presence in the state of Ohio representing 47 companies with well over 100 manufacturing and engineering facilities that support the state's economy. Member companies in Ohio collectively employ over 15,000 state residents.

Once again, NEMA urges the OBBS to maintain this tradition of excellence by promptly initiating the review and adoption of the 2014 NEC. If you have any questions, please contact Deana Dennis, Manager of State Government Relations, at [deana.dennis@nema.org](mailto:deana.dennis@nema.org) or (703) 841-3244.

Sincerely,

A handwritten signature in black ink that reads "Tom Salpietra".

Thomas Salpietra  
President and COO  
EYE Lighting International

**EYE Lighting International of North America, Inc.**  
*a division of Iwasaki Electric of Japan*

9150 Hendricks Road  
Mentor, Ohio 44060

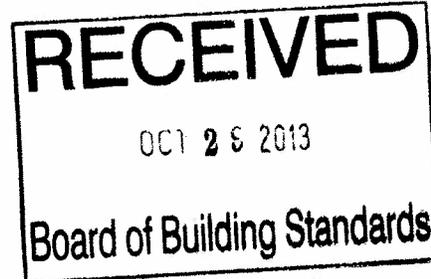
Tel: (440) 350-7000  
Fax: (440) 350-7001

[www.eyelighting.com](http://www.eyelighting.com)



October 17, 2013

Ohio Board of Building Standards  
Regina Hanshaw, Executive Secretary  
6506 Tussing Road  
Reynoldsburg, Ohio 43068



Dear Ms. Hanshaw:

The Greater Cincinnati Electric Association traces its origin to 1910 when it was organized as the Cincinnati Jovian Electrical Club by a group of dedicated, future minded, people involved in the infant electrical industry. Its purpose was to function as an information source for all facets of the electrical industry: manufacturers, distributors, contractors, industrials, architects, engineers, and any other business or services involved in this field. It was the liaison between the public and the electrical body dispensing information on electrical products and their safe installation and use.

In 1934 we became the Cincinnati Electric Association and in 1989 evolved into the Greater Cincinnati Electric Association (GCEA) as we had grown into a regional organization. While our name has changed over this century, our purpose has remained the same. Today our members consist of engineers, electrical safety inspectors, electricians, material and equipment suppliers, and others who work as contractors, or are employed in engineering companies, industrial, health care, educational, government institutions and municipal, county and state entities. The GCEA has the approval of its membership to represent their interest in this matter. The membership consists of over one hundred electrical industry related companies, and thus several thousand of electrical industry employees.

For over a century we have been providing education to our members enabling them to provide safe and cost effective installations of electrical systems and safe and effective uses of electrical equipment and devices for the citizens that we serve. Our purpose is to protect our citizens from the hazards of electricity that can develop if systems are not installed correctly or equipment and devices are misapplied.

The application of the NEC is the foundation of our efforts.

Technologies have advanced at an ever increasing rate in the past decade. This new technology has resulted in new systems, products and improved safety technologies that were not even imagined just a short time ago. It is important that the State of Ohio keep pace with these

advancements. Timely adoption of the 2014 NEC will ensure we have minimum requirements in place to address these advancing technologies that will result in greater safety for our citizens in their homes, hospitals, schools, and places of employment. It also would ensure more cost effective installations of electrical systems resulting in more value for their hard earned dollars.

We therefore support the position of the Coalition in their petition to update referenced standard (NFPA 70) National Electrical Code 2011 edition to the 2014 edition at the earliest possible date.

Very Truly Yours,



Terrence Eibel  
Executive Director,  
Greater Cincinnati Electrical Association

## Hanshaw, Regina

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**From:** Lane, Michael  
**Sent:** Tuesday, February 11, 2014 11:43 AM  
**To:** Lane, Michael  
**Cc:** Hanshaw, Regina; Regoli, Steve; Ohler, Debbie; Johnson, Robert  
**Subject:** Board of Building Standards Proposed Rules/Stakeholder Meeting Notification  
**Attachments:** Stakeholder Meeting Notification.pdf

Board of Building Standards Stakeholder:

You are receiving this message pursuant to the requirements of Executive Order 2011-01K and Senate Bill 2 of the 129th General Assembly, which require state agencies, including the Ohio Board of Building Standards (Board), to draft rules in collaboration with stakeholders, assess and justify any adverse impact on the business community, and provide opportunity for the affected public to provide input on the rules.

### Stakeholder Meeting

The Board will conduct a Stakeholder Meeting to hear comments and respond to questions on the proposed amendments summarized below on March 14, 2014 from 10:00 AM to 3:00 PM in Training Room 1, 6606 Tussing Road, Reynoldsburg, Ohio 43068. All interested stakeholders are invited to attend. The Agenda for the Meeting is as follows:

10:00 AM – 12:00 PM	Proposed Boiler Rules
1:00 PM – 3:00 PM	Proposed Ohio Building Code Rule (Update NFPA 70 to 2014 edition) Proposed Ohio Mechanical Code Rule (Update NFPA 70 to 2014 edition) Proposed Ohio Plumbing Code Rule (Update NFPA 70 to 2014 edition)

### Overview of Proposed Rules

#### Proposed Boiler Rules

The Board proposes to amend Ohio Administrative Code as follows: **4101:4-1-01** to add a definition of qualified individual and to make other general editorial corrections; **4101:4-3-01** to add ASME CSD-1 2012 Controls and Safety Devices for Automatically Fire Boilers to list of approved standards; **4101:4-4-03** to specify that new proposed paragraph (B)(4) of rule 4101:4-10-01 applies for the installation of safety devices and controls which enable a new or existing boiler to be operated without the presence of a licensed operator and to add the word “controls” for clarification; **4101:4-9-01** to specify that new proposed paragraph (B)(4) of rule 4101:4-10-01 applies for the installation of safety devices and controls which enable a new or existing boiler to be operated without the presence of a licensed operator; and **4101:4-10-01** (rescind and adopt new) to revise paragraph (A) to be consistent with Section 4104.05 of the Revised Code, to revise paragraph (B)(1) for clarification and consistency with other paragraph construction, to revise paragraph (B)(2) for clarification, to delete old paragraph (C) (definition of horsepower) consistent with changes made to Section 4104.05 of the Revised Code, to reword and renumber old paragraph (D) for clarification, and to add new provisions permitting certain automatically operated boilers that conform to ASME CSD-1 2012 to be operated without the presence of a licensed operator in accordance with House Bill 12 of the 130<sup>th</sup> General Assembly.

These proposed rules can be viewed here:

[http://www.com.ohio.gov/documents/dico\\_CombinedSummaryProposedBoilerRuleChanges.pdf](http://www.com.ohio.gov/documents/dico_CombinedSummaryProposedBoilerRuleChanges.pdf)

#### Proposed Ohio Building Code, Ohio Mechanical Code & Ohio Plumbing Code Rules

The Board proposes to amend Ohio Administrative Code as follows: **4101:1-35-01** to update the NFPA 70 standard in the Ohio Building Code to the 2014 edition for non-residential buildings as a result of approved Petition #13-004; **4101:2-15-01** to update the NFPA 70 standard in the Ohio Mechanical Code to the 2014 edition for non-residential buildings as a result of approved Petition #13-004; and **4101:3-13-01** to update the NFPA 70 standard in the Ohio Plumbing Code to the 2014 edition for non-residential buildings as a result of approved Petition #13-004.

These proposed rules can be viewed here:

[http://www.com.ohio.gov/documents/dico\\_CombinedSummaryOBCOMCOPCProposedRuleChanges.pdf](http://www.com.ohio.gov/documents/dico_CombinedSummaryOBCOMCOPCProposedRuleChanges.pdf)

**Contact Information for Comments or Questions**

If you cannot attend the above Stakeholder Meeting, you can submit written comments or questions on the proposed amendments to the Board. You may submit your comments via email at [BBS@com.state.oh.us](mailto:BBS@com.state.oh.us) or U.S. Mail at Ohio Board of Building Standards, 6606 Tussing Rd, Reynoldsburg, Ohio 43068, Attn: Regina Hanshaw by March 28, 2014.

Sincerely,

Regina S. Hanshaw  
Executive Secretary  
Ohio Board of Building Standards

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\* The information transmitted is intended solely for the individual or entity to which it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of or taking action in reliance upon this information by persons or entities other than the intended recipient is prohibited. If you have received this email in error please contact the sender and delete the material from any computer.  
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# Proposed Rules Stakeholder Meeting Notification

2-11-14

ADAM ladam@masonoh.org  
Adams bryan.adams@daytonohio.gov  
ADAMS scottinohio@sbcglobal.net  
Adkinson badkinson@richlandcountyoh.us  
Adler adler1@hughes.net  
ADLEY wadley@neo.rr.com  
AFFOLTER jeff@mmelectricinc.com  
Akester dgakester@gmail.com  
ALBERT joealbert@gmail.com  
ALBRIGHT galbright@horizonview.net  
ALEKSICH a.aleksich@femoran.com  
Alesci johnnyboy317@att.net  
Alexander oalexander@city.cleveland.oh.us  
ALFORD stevejalford@yahoo.com  
Ali taneshaali@gmail.com  
ALI columbuselectric@aol.com  
ALLEN jma819@juno.com  
ALLINDER callinder@columbus.gov  
ALLRED tallred@pfscorporation.com  
ALT jalt@altarchitecture.com  
ALVAREZ RA859@neo.rr.com  
AMATO jamato@co.delaware.oh.us  
AMICK dcamick@columbus.gov  
Amole jrajma@sbcglobal.net  
AMOS gamos@cityofwestlake.org  
AMOS amos@cityofmentor.com  
ANDERSON diana\_lee\_@hotmail.com  
ANGLIN paulanglin@jomory.com  
ANKROM jhankrom@yahoo.com  
ANTROBUS rob.antrobus@ohiovalleymonitoring.com  
APANASEW rapanasewicz@munibis.com  
ARDITO Tom.Ardito@yahoo.com  
Ark reese@arkplumbingandpiping.com  
Armeni jnarmeni@sbcglobal.net  
ARNDT arndt-mike@maumee.org  
Arnold arnoldb@ci.fairlawn.oh.us  
ARNOLD SArnold@city.cleveland.oh.us  
ARNOLD tatcahd@gmail.com  
ARORA ldarora@com.state.oh.us  
ARRENDAL rla4938@neo.rr.com  
ARRIAGA arriaga2012@yahoo.com  
ARTERS russa@cityofnorton.org  
ARTHUR karthur@richlandcountyoh.us  
Artrup bjartrup@hotmail.com  
Artrup bjartrup@grandviewheights.org  
ARVIN dkssarvin@yahoo.com

Asebrook masebrook@asebrook.com  
ATER pggater@gmail.com  
ATHANAS tedathanas1963@gmail.com  
ATHY rich@systems28.com  
ATHYA k25velo@neo.rr.com  
ATKINS sgatkins@columbus.gov  
Austin Jr donald\_austin@sbcglobal.net  
AVEN kaven@avenfire.com  
Axline bob.axline@yahoo.com  
Ayres rayres@grandviewheights.org  
BAGGETT mbaggett@cinci.rr.com  
Bailey baileyted39@yahoo.com  
BAILEY jbailey@vanguardalarms.com  
Baker gary.baker@cantonohio.gov  
BAKER leebaker@gmail.com  
BAKER bakert67@aol.com  
BAKER tbaker@vandaliaohio.org  
BALDAUF II esi@vandaliaohio.org  
BALDWIN jeanlen@embarqmail.com  
BALESTER wbalester@seuclid.com  
BALOGH kenketo@gmail.com  
BALSER j.balsrjr@comcast.net  
BALSER jbmdia@comcast.net  
BARCLAY robert.barclay@neohio.twcbc.com  
Bargdill joe.bargdill@westerville.org  
Barisic tonybarisic@aol.com  
Barisic tbarisic@city.cleveland.oh.us  
BARKALOW nealbarkalow@hotmail.com  
Barkas jbarkas@sbcglobal.net  
Barker barkerf@yahoo.com  
Barnes iaeiakrondiv@gmail.com  
Barnes III rbarnes@city.cleveland.oh.us  
BARNETT bbarnett@masonoh.org  
BARNETT II paul.barnett11@gmail.com  
Barnum ericmbarnum@yahoo.com  
BARR mjbhd@aol.com  
Bartley bbartley.mail@gmail.com  
Barton kn5dx@hotmail.com  
Bashaw andreabashaw@asidaco.com  
BASSETT mark@bassettsprinkler.com  
BASTIAN don\_bastian@yahoo.com  
BAUER bbauer@lycos.com  
BAUGHMA johnfireray@embarqmail.com  
BAUMANN proalert@fuse.net  
BAUMGAR baumgartnerfarm@msn.com  
BAUSCHLIN jbauschlinger@cityofbarberton.com  
BAXTER baxterskyles@hotmail.com

Baytos jbaytos@romanoffgroup.cc  
BAYUS rebayus@earthlink.net  
BEAM mike.beam@comunale.com  
BEAN cbean@co.delaware.oh.us  
BEARDEN bmonaro@yahoo.com  
Beardman joelbeardman@yahoo.com  
BECKWITH john.beckwith@comunale.com  
Becoat blanchelouis@yahoo.com  
Becoat mbecoat@city.cleveland.oh.us  
BEDILION wbedilion@roadrunner.com  
BEELER stan.beeler@yahoo.com  
BEIRNE kfbeirne@sbcglobal.net  
Belding rbelding@cityofcolumbiana.org  
BELL gear910@aol.com  
BELLOMA william.belloma@gmail.com  
BENEDETTI vinniebene@yahoo.com  
Benko jbenko@medinaoh.org  
BENNETT jrbennett@neo.rr.com  
BENNETT rbennett@warren.org  
Bentley sbentley@ci.union.oh.us  
Beres kurtb@ma-architects.com  
BERGMAN billb@securcom.com  
BERGMAN bergman@englewood.oh.us  
BERLING gerry.berling@cincinnati-oh.gov  
Berry jberry@hardfire.com  
Berry bcbd@frontier.com  
BERTEAU rberteau@broadview-heights.org  
BERTEAU rob379@sbcglobal.net  
BEUTLER wbeutler@sbcglobal.net  
BEVERLY JF nithawk48@neo.rr.com  
BEYER jebeyer@columbus.gov  
BEYER jcoo256@yahoo.com  
Bichara cbichara@middleburgheights.com  
BIDDISON rbbiddison@columbus.gov  
BIEDENBACH plbiedenbach@aol.com  
BIEDERMA 1@biedermanfire.com  
Bieler michaelbieler@sbcglobal.net  
BIERLEY rebarch@aol.com  
Bierut bierut@cvelimited.com  
BIGELOW rbigelow@co.delaware.oh.us  
BIGELOW rbigelow12@hotmail.com  
Biggert daveb@gatesmillsvillage.com  
BIHLMAN mbihlman@fuse.net  
Bills davebills@brownandbills.com  
BILLS tsbills@hometowncable.net  
BINFORD reggie.binford@cincinnati-oh.gov  
BIONDILLO tony.biondillo@strongsville.org

BISHOP rod.bishop@atech-fire.com  
BLAGG blagg79@yahoo.com  
BLAKEY jerryblakey@yahoo.com  
BLANKEME blankemeyerelectric@hotmail.com  
BLATCHFOI BA@studio-10.com  
BLONDIN jkbringer@sbcglobal.net  
Blue Donal ayonna.blue.donald.esq@gmail.com  
BOARD cboard@centralfp.com  
BODO abodo@cityofsteubenville.us  
Bogart bogart66@yahoo.com  
Bogart jbogart@bogartarchitecture.com  
BOHACHEK kip.bohachek@ketteringoh.org  
Bohnert scott.bohnert@cincinnati-oh.gov  
Bolender bolenderj@cintas.com  
BOLES dboles@ntainc.com  
BOLL bbbooll@windstream.net  
Bonifas bonifass@nwoss.com  
BONVENU1tgallagher@eastlakeohio.com  
Bonvissuto sbonvissuto@cityofeuclid.com  
BOOGHIER danaboo1@msn.com  
BORDER mcmayor46@yahoo.com  
Boring rboring@ntainc.com  
Borso lauraborso@bellsouth.net  
BORYCA mike@eco-arch.com  
BOSHANE cboshane@solonohio.org  
BOSO mboso@columbus.rr.com  
Bourquin MTB@Copp.com  
BOWMAN rdbowman@co.miami.oh.us  
BOZAK cubmstr161@yahoo.com  
BOZEMAN cbozeman@mjwood.com  
Bozman jdbozman@yahoo.com  
BRADLEY khbldz@neo.rr.com  
BRADY mbrady7411@gmail.com  
BRAKHAGE sbrakhage@3s-incorporated.com  
BRANDT t.a.brandt@att.net  
Brannon jameybrannon@yahoo.com  
BRANSON ronnie.branson2@gmail.com  
BRATHWAI wwbrathwaite@columbus.gov  
BRATTON hydromark@msn.com  
Brauer brauerbuilding@gmail.com  
BREEZE breezea@ohio.edu  
BREMNER bremner038@roadrunner.com  
Brennan sbrennan@cityofwillowick.com  
Brennan Jr cowboybrennan@yahoo.com  
BRENNEM/ grandupress@aol.com  
BREWER bbrewer43@aol.com  
Bright millwooddog@yahoo.com

Brill dbrill@delawarehealth.org  
BRINLEY tbrinley@richlandcountyoh.us  
Bristow jeffrey.bristow@siemens.com  
BROKAW ROBERT.BROKAW1@GMAIL.COM  
BROOKS dbrooks@harrisonohio.gov  
BROOKS rbrooks@co.greene.oh.us  
BROOKS rjb086@woh.rr.com  
BROOKS mbrooks@integratedprotection.com  
BROWER bmbrower@roadrunner.com  
BROWN gary.brown@ketteringoh.org  
BROWN fredbrown1947@fuse.net  
BROWN william.brown@cityhall.lima.oh.us  
BROWN larrybrown1st@aol.com  
BROWN sbrown2@sbcglobal.net  
BROWN mike.sdes@yahoo.com  
BROWN sbrown3@city.cleveland.oh.us  
BROWN brownfcjr@sbcglobal.net  
BROWN benb@wellsbrothers.com  
BROWN scbrown1@gmail.com  
BROWN JR rbrown@bedfordoh.gov  
Brownlee naemale@aol.com  
Brownlee nbrownlee@city.cleveland.oh.us  
BRUEN kenbruen@sbcglobal.net  
Bruggemar agbrugg1@gmail.com  
BRULPORT dbrulport@sidneyoh.com  
BRUNNER james.brunner@cincinnati-oh.gov  
Bruns mbruns@moteassociates.com  
Bryant rjb298@hotmail.com  
BRYKALSKI resw7cmf@frontier.com  
Buchler gbuchler@ovis.cc  
BUEHRER pbuehrer@ci.oregon.oh.us  
BUELOW gwbinc@gmail.com  
BUHROW tbuhrow@co.ottawa.oh.us  
BULL JR jebulljr@aol.com  
BUMBALIS abumbalis@aol.com  
BUNN db333313@yahoo.com  
BURDAY curt7@windstream.net  
BURG gerald.burg@com.state.oh.us  
BURG s.l.burg@sbcglobal.net  
BURNS BILLBURNS08@AIM.COM  
Burnside tburnside@ci.lancaster.oh.us  
BURRIS deburris@columbus.gov  
Burroughs timothyburroughs1120@yahoo.com  
BUSCH buschman@centurytel.net  
BUTCHER rcbutcvher@columbus.gov  
BUTCHKO bclick@butchkoelectric.com  
Butkovic jbutkovic@ipsid.com

BUTTS jwbuttsjw@gmail.com  
BUZA sbuza@aol.com  
CACIOPPO mcacioppo@akronohio.gov  
CACIOPPO cmykey@neo.rr.com  
CAITO larrycaito@gmail.com  
CALAWAY ccalaway@brunswick.oh.us  
CALDWELL jimc@firefoe.com  
CALLIHAN callihan@callihanelectric.com  
CAMBURU acamburu@yahoo.com  
Camou david100483@gmail.com  
CAMP sparkette661@sbcglobal.net  
CAMPBELL mcampbell@dupps.com  
CAMPION rcampion@springdale.org  
Canady Jr. tmitchell@midwestsprinkler.com  
Canterbury mcanterbury@simplexgrinnell.com  
CANTRELL jcantrell@co.miami.oh.us  
CANTU ralph\_cantu@cityoflorain.org  
Cantu Jr cantuforu@gmail.com  
CAPLINGER ron@craynonfireprotection.com  
CAPUCINI topdawg45@bex.net  
Caraballo wcaraballo2@city.cleveland.oh.us  
CARBONE pvcdwv@yahoo.com  
CAREY JR bcarey@stow.oh.us  
CARLETON tomster213@gmail.com  
CARLSON acarlson@pyramid1inc.com  
CARLSON sci@firedefense.com  
CARMACK tcarmack@afire1.com  
Carman ccf69@gmail.com  
CARR admin@carr-electric.com  
Carragher vince\_carragher@yahoo.com  
CARROLL carrollrandy15@gmail.com  
CARTER tcarterllc@fuse.net  
CARVER rgcarver@columbus.gov  
CASINI ncasini@rcuarchitects.com  
Catacutan rcatacutan2@city.cleveland.oh.us  
CATALONA tcatalano@stow.oh.us  
Cavanaugh leah309ang@yahoo.com  
Cavender bcavender@a1ssi.com  
CEGELKA dcegelka@twinsburg.oh.us  
CENDOL robert.cendol@toledo.oh.gov  
CENZORI ampy2000@sbcglobal.net  
CEREPAK tim.cerepak@comunale.com  
Chaffin Jr eagleinspectionsrc@yahoo.com  
CHANDLER schandler@healeyfire.com  
CHANEY JR wclgchaney@windstream.net  
Chapella wchapella@zoominternet.net  
Chapin Jr. jchapin68@gmail.com

Chaplin rchaplin@cityofwickliffe.com  
CHARTOUN char2ni705@comcast.net  
CHEATHAM jcheatham@safebuilt.com  
CHINN mchinn@grovecityohio.gov  
Ciarrone insprciarrone@parmafire.org  
CIEPIEL paul@apmcabbling.com  
CIRVENCIC cirvann@sbcglobal.net  
CLARK jcflashusa2000@yahoo.com  
CLARK paultheelectrician@gmail.com  
CLAUTTI rclau31018@aol.com  
Claytor claytorj@mymail.shawnee.edu  
CLIFFORD jcliffordc@mindspring.com  
CLIFTON jake4426@yahoo.com  
Cline mccline@schmidtsecurity.com  
Clines pjc8581@aol.com  
CLINGMAN ddclingman@columbus.gov  
CLIPSON addisonclipson@yahoo.com  
CLOES bcloes@ci.mansfield.oh.us  
CLOUSE jclouse@trarnold.com  
CO ctco40@aol.com  
COAKLEY kcoakley@co.union.oh.us  
Cockayne robert.cockayne2@daytonohio.gov  
COFFEY dencoffey@hotmail.com  
COHEN sdc98@aol.com  
COHN III william.cohn@cincinnati-oh.gov  
Coleman bcoleman3@aol.com  
COLWELL lcolwell@natinspect.com  
COLWELL robc@transtarcorp.com  
COMBS bruce.combs@toledo.oh.gov  
COMBS brucomb@buckeye-express.com  
COMBS cbotex37@aol.com  
CONNER taconthehill@yahoo.com  
CONNOLLY wconnolly772@live.com  
CONROY II billeconroy@gmail.com  
CONVERY tconvery@ameritech.net  
Conway bconway@dublin.oh.us  
Cook kcook@ntainc.com  
COOK cookelectricinc.jc@gmail.com  
Cooley b4mookie@aol.com  
Cooley dcooley@city.cleveland.oh.us  
Cooper homescope@sbcglobal.net  
COOPER djcooper@roadrunner.com  
COPELAND srcarchitect@sbcglobal.net  
CORBETT ecorbett@columbus.rr.com  
CORCORAN cjcorcoran@oakgroupcode.com  
Corfman Sr northcoastpower@hotmail.com  
Cormack Jr ohio plumber@hotmail.com

CORRENTI mcserinc@yahoo.com  
Cossin cbd288@att.net  
COUCH cccpatco@aol.com  
COUNTS djcounts@columbus.gov  
COURTNEY jac95@neo.rr.com  
Cowles americanplumbing@oh.rr.com  
COX ecox@painesville.com  
CRAWFORD charles.crawford@cincinnati-oh.gov  
CREASE proncon@windstream.net  
CRIPPEN rcrippen@clarkcountyohio.gov  
CROMARTI mikec54@gmail.com  
CRONK sdcronk@columbus.gov  
CROSBY fireguardinc@aol.com  
Crutchley mcrutch@tglss.com  
CUCCIA mcuccia@brecksville.oh.us  
CUFFARI paulcuffart@gmail.com  
Cummins cummins@cvelimited.com  
CUNNINGHAM edward.cunningham@cincinnati-oh.gov  
CUNNINGHAM dave44@embaqmail.com  
CUNNINGHAM bldg@huntingvalley.net  
CUNNINGHAM m.cunningham@csuohio.edu  
CUREE cureeenterprises@aol.com  
CURRIER seth.currier@cincinnati-oh.gov  
CURRY tim@curryelectric.com  
CURTIS LIFTEDJEEP@ROADRUNNER.COM  
Cutcher rickc60@sbcglobal.net  
CYPHERT mcyphert@pfscorporation.com  
CZAPP louiecz@yahoo.com  
DABDOUB majed.dabdoub@cincinnati-oh.gov  
DABDOUB majed@dabdoub.net  
D'Agostino quinn090909@yahoo.com  
DALEY backtrax@ameritech.net  
D'amico larry@dami.co  
DANDO JR jim.dando@troyohio.gov  
DANE mikedane76@yahoo.com  
D'ANGELO jimd@absoluteftp.net  
DANIEL dldaniel@columbus.gov  
DANN bdann@columbus.rr.com  
DANOLFO witchatalinesman@att.net  
DANTZLER ddlad1@aol.com  
Darragh rdarragh@columbus.rr.com  
DASHER jedasher13@yahoo.com  
Davis jim.davis@comunale.com  
Davis cdavis4@city.cleveland.oh.us  
DAVIS joshd@concordfp.com  
DAVIS jdavis19@columbus.rr.com  
DAVIS sdavis@woosteroh.com

DAVIS cdavis3@city.cleveland.oh.us  
DAVIS gdavis@pickaway.org  
DAWSON dardawdude@yahoo.com  
DAY donmo10090@yahoo.com  
DEAL deals5526@hotmail.com  
DEBENEDIC lance@x-celeng.com  
DECKER JR jedjrpe@oh.rr.com  
DeGeorge rdegeorge@neo.rr.com  
Deharpert dttc@brightdsl.net  
DEICHMAN pdeichmann@cityofparma-oh.gov  
DeJesus Jr cjabdejesus211@gmail.com  
DELGIUDIC ndgarchitect@yahoo.com  
DeLorenzo bobdelo@att.net  
DELZANI jdelzani@rrcity.com  
DeMassimo r.demassimo@yahoo.com  
DEMEDAL mdemedal@yahoo.com  
DENICHOL tdbyrd@zoominternet.net  
DEROSA satisfaction1001@yahoo.com  
DERR jack.derr@hamilton-co.org  
Derrett rderrett@city.cleveland.oh.us  
DESVARI desvar@aol.com  
DETTMANN tdettmann@mjwood.com  
DEVITO JR richarddevito@aol.com  
DEWHURST ddewhurst@ahernfire.com  
DICKARD dickardfamily@gmail.com  
DICKERSON adicke7092@yahoo.com  
Dickey jdickeydesigner@hotmail.com  
Dicks jdicks@trarnold.com  
DIEHL dadiehl34@gmail.com  
DIETZ CHARLES.DIETZ@HAMILTON-CO.ORG  
DiFranco mdifranco615@aol.com  
Dinardo rdinardo@sbcglobal.net  
Dingle dingle.p@gmail.com  
Disalvo d-sdisalvo@sbcglobal.net  
DIZDAR dizytocro@aol.com  
Dizdarevic benjod@cox.net  
DODDS edodds2393@aol.com  
Dodovich jdodovich@gmail.com  
DODSON carl@advantage-fire.com  
DOEHNE otowngames@aol.com  
Doll jim@jacksonsprinkler.com  
DOMINICK jd9393@sbcglobal.net  
DONOVAN inspt99@yahoo.com  
Dooley shawndooley62@gmail.com  
DOOLEY patrickdooley@siemens.com  
DORENKOT dorenkottn@north-olmsted.com  
DORGAN sdorgan@cinci.rr.com

DORN tdorncdfp@fuse.net  
DORN chris.dorn@dornfireprotection.com  
DOTTS rdotts@telgian.com  
Downs Jr jdowns@clarkcountyohio.gov  
DOZER rick@capfire.com  
DREW jdrew2@neo.rr.com  
DRIGGS ggird@aol.com  
DUBER jduber@technearchitects.com  
DUCKWOR ducks91804@yahoo.com  
DUCKWOR rosscbo@horizonview.net  
DUFFY 164alan@gmail.com  
Duluk mwduluk@sbcglobal.net  
Duncan gduncan@geaugacountyhealth.org  
Dunham lrd@usautomaticfire.com  
DUNNING cinnkid@zoomtown.com  
DURANTE electsummit@sbcglobal.net  
DURBIN davedurbin@embarqmail.com  
DUVALL rduvall@shambaugh.com  
Dvorak jdvorak@city.cleveland.oh.us  
Dvorscak ddvorscak@comcast.net  
Dye kenjoan02@aol.com  
Dziak mdzhazmat@yahoo.com  
EASTEP reastep@uaoh.net  
EATON Geaton@com.state.oh.us  
EBY tnjeby@zoomtown.com  
Echeverri john@ejengineering.com  
Eckart geman353@yahoo.com  
ECKERT doneckert@eckertfireprotection.com  
ECKERT jasoneck112@yahoo.com  
EDDY mike@elitesprinklerdesign.com  
EDDY chriseddy@roadrunner.com  
EDDY rpeddy@juno.com  
Edwards harry@chagrinsfalls.org  
Edwards rzrfun111@gmail.com  
EDWARDS darryl.edwards@cincinnati-oh.gov  
EDWARDS tfaye@zoomtown.com  
EDWARDS dedwards2007@cinci.rr.com  
EHRHARDT atlas.fire@yahoo.com  
EICHORN JI b.eichorn@aol.com  
EIFERT bob.eifert@hamilton-co.org  
EISENHUTH jeisenhuth@solonohio.org  
ELASIVICH llelasivich@zoominternet.net  
ELEY leley@live.com  
ELLIOTT tell386640@aol.com  
ELLIOTT ronelliottarchitect@live.com  
Ellis kellis@cityofparma-oh.gov  
ELLIS larrymellis@sbcglobal.net

ELLIS jellis@electricconsultants.net  
ELLISON eellison@co.greene.oh.us  
Elzein yaelzein61@hotmail.com  
ENGLAND J rob16u@aol.com  
Enterman centerman@westcarrollton.org  
Erb terb0@aol.com  
Erbe rxerbe@franklincountyohio.gov  
ERITANO teritano@akronohio.gov  
EUDELL meudell@lakecountyohio.org  
Evans chris.evans@vfpfire.us  
Evans ejevans943@cton.net  
EVANS beevans@hardfire.com  
Faciana Jr. dfacianajr@sbcglobal.net  
FAGRELL bfragrell@ci.lancaster.oh.us  
FAHRNI kfahrni@woosteroh.com  
Faile failejt@gmail.com  
FAIR rfair@masonoh.org  
FAIRFAX sefairfax@yahoo.com  
Faller mfaller@ntainc.com  
FARMWALI kofarmwa@franklincountyohio.gov  
FARRELL III mfarrelliii@yahoo.com  
FAULKNER electriced1954@earthlink.net  
FAULKNER rick.faulkner@hamilton-co.org  
FAULKNER rickandregina@yahoo.com  
FEHN mike.fehn@cincinnati-oh.gov  
Feick feickja@aol.com  
FELGER bfelger@grovecityohio.gov  
FERGUSON katray7@msn.com  
FERREE brian.ferree@troyohio.gov  
FERRIS ferrisj1936@yahoo.com  
Ferritto 1971codefp@gmail.com  
FICKERT rfickert@a1ssi.com  
FIEDLER ameky@hotmail.com  
Fields dfields@city.cleveland.oh.us  
Fikar fikar@parmafire.org  
Filarski jfilarski@munibis.com  
FILASETA dfilaseta@centervilleohio.gov  
Fillar jeff.fillar@lakewoodoh.net  
FINCH finchl@auroraoh.com  
FINK finkj@att.net  
Finney II bob.finney@ci.ravenna.oh.us  
FISHER rofisher@columbus.gov  
Fistek ttf1002@hotmail.com  
FITZGERALD efitzgerald@brooklynohio.gov  
FITZPATRIC DanF@cityofspringboro.com  
FITZPATRIC danbev86@roadrunner.com  
FLANIK skillbuilder64@aol.com

FLICK flickg@ci.hamilton.oh.us  
FLOOD dflood@brunswick.oh.us  
FLOOK JR jim\_flook@comcast.net  
Flora jaflora4897@embarqmail.com  
FLOWERS msgflowers@hotmail.com  
Floyd III donfloyd55@yahoo.com  
FLUM fluma@ci.hamilton.oh.us  
FODOR afodor@hgfarchitects.com  
FOLGER empiress@att.net  
FOLSOM cobradf54@aol.com  
Fomby ifomby@yahoo.com  
FOOTE mfoote@city.cleveland.oh.us  
FORD dfordsr@gmail.com  
Fornwalt jj2nca@yahoo.com  
FORT gafort@gmail.com  
FOSTER roger.foster@cincinnati-oh.gov  
FOULKES JF keith.foulkes@strongsville.org  
FOWLER ffowler@co.delaware.oh.us  
FRANCISCC richard\_francisco@att.net  
Franke ian.franke@cincinnati-oh.gov  
FRANKLIN kfranklin@city.cleveland.oh.us  
FRANKS efranks36@gmail.com  
FREDERICK kfred1125@hotmail.com  
FREIMAN FREIMANK@YAHOO.COM  
Frenton gregfenton@yahoo.com  
FREY mike.frey@gahanna.gov  
FRIMMING tom.frimming@comunale.com  
FRITTS fsfzz@aol.com  
FRITZ aafritz1699@sbcglobal.net  
FULKS roberttfulks@hotmail.com  
FULTZ ken.fultz@gahanna.gov  
FURSDON gfursdon@nridgeville.org  
FUSSNER pfussner.ipe@att.net  
Galambos jb007aaron@att.net  
GALASKA S emgalaska@hotmail.com  
GALBRAITH karawayacres@hotmail.com  
GALL ngall271@gmail.com  
GALLAGHE bgallagher@ctconsultants.com  
GARCIA dgarcia2@city.cleveland.oh.us  
Gardner sgardner@cityofeuclid.com  
GAREAU gareaud@north-olmsted.com  
GASSER sgasser@embarqmail.com  
GAVER jgaver@ci.springfield.oh.us  
Gaylord rgaylord@cityofsteubenville.us  
Geiser srgeiser@gmail.com  
Gemberlin timmyed@frontier.com  
GEORGE jimgeorge8@gmail.com

George II draindoctorjg@bex.net  
GERBER jeraldgerber@aol.com  
GERO mjgero@sbcglobal.net  
GHOSH amit.ghosh@cincinnati-oh.gov  
Gibson shanelgibson@aol.com  
GIFFORD accounting@centralfp.com  
GIFFORD mike.gifford@vfpfire.us  
GIFFORD neptune235@aol.com  
Gilkey tgagaglg@fuse.net  
GILLY JR pgilly53@aol.com  
GILMORE jgilmore@ci.oregon.oh.us  
GILREATH dgilreath@columbus.gov  
Gilyard dgilyard@city.cleveland.oh.us  
GIRBINO mgirbino@mayfieldvillage.com  
Givens s4c11g6@suddenlink.net  
GLADD bigladd@co.trumbull.oh.us  
GLADISH dangladish@msn.com  
Gleason sgleason@earthlink.net  
Glisic mglisic@cityofeuclid.com  
Glover rdg@tglss.com  
GLUZINSKI vgluzinski@yahoo.com  
GOLDEN tdgolden@wowway.com  
GOLDEN tgolden@cityofelyria.org  
GOLIS david.golis@toledo.oh.gov  
GOLIS davidgolis@aol.com  
GONZALEZ joseanddee@ncwcom.com  
GRABFELDI dgrabfelder@highlandhts.com  
Gracco kgracco@yahoo.com  
GRACE rgrace@city.cleveland.oh.us  
Grady sunrise\_1959@hotmail.com  
GRASSI inspectorgrassi@gmail.com  
Graves tgraves@garberconnect.com  
Graves dcg412@att.net  
GRAVES jgraves@ci.worthington.oh.us  
GRAYSHAW paul.grayshaw@att.net  
GREBER cgreber@fuse.net  
Green jgreen@ohio.net  
Green bgreen8539@aol.com  
GREEN Pgreen@ryanfp.com  
GREENWAI electricwe@aol.com  
Greer greer8870@gmail.com  
GREGORY bgregory@ci.springfield.oh.us  
GRGIC mgrgic@city.cleveland.oh.us  
Griffiths mark.griffiths@comunale.com  
GRIMES nathang1077@gmail.com  
GRISWOLD griswoldw@yahoo.com  
GRIVENSKY centralelectricinspection@yahoo.com

GRIZZLE randallgrizzle.rg@gmail.com  
GROB grmxride@hotmail.com  
GROGEAN rgrogean@beavercreektownship.org  
Grubbs twgrubbs60@wowway.com  
GRUBER mgruber@simplexgrinnell.com  
GRUENWA arc1000@juno.com  
GRUSENMI jagarch@wowway.com  
GUDAT keith@piofinish.com  
GUNSALUS Dgunsalus@hotmail.com  
GUSTAFSO jgustafson@hwceng.com  
GYURE gyure@windstream.net  
HAAG harley0523@gmail.com  
Hackney mehackney@gmail.com  
HAFELE steve.hafele@cincinnati-oh.gov  
HAGAN pawrus8@frontier.com  
HAHN c.k.hahn@att.net  
HALE thale@clarkcountyohio.gov  
Hall khall@wadsworthcity.org  
Hall aph585@aol.com  
HALL thallsr@adelphia.net  
HALL mr\_wesley@yahoo.com  
HALL jhestic@juno.com  
HALL koleary@cityofgirard.com  
HALLORAN nhalloran33@att.net  
HALPIN marge.halpin@cincinnati-oh.gov  
HALUSKER hesinc690@sbcglobal.net  
HAMMONI jason@rollercoasterfreak.com  
Hampton hamptonmark40@yahoo.com  
HAMPTON tom@rthampton.com  
Hanigan rdh@asebrook.com  
HANKEY mgmidget73@yahoo.com  
Hanley bhanley01@comcast.net  
HANNA hannaeric3@aol.com  
Hannan jthannan@yahoo.com  
HANSON ehanson@broadview-heights.org  
Haponek dhopy25@yahoo.com  
HARD mike@hardfire.com  
Harden alfred.harden@cincinnati-oh.gov  
HARDER tharder@co.ottawa.oh.us  
HARDING stharding@yahoo.com  
HARDY JR dhardyjr@zoominternet.net  
HAREN dave.haren@comunale.com  
HARLER inspector522@yahoo.com  
HARPER maryharper@harstone.com  
HARPHAM rmharpham@gmail.com  
Harpster amy.harpster@cityhall.lima.oh.us  
HARRIS harrist@mcohio.org

HART dorhart12@yahoo.com  
HATCHER lavelleH01@aol.com  
Hatchett chatchett@city.cleveland.oh.us  
HATFIELD poppajoe01@yahoo.com  
Hatton whhatton@columbus.gov  
HATTON james.hatton@cincinnati-oh.gov  
HAUGHN tony@starelectricgc.com  
HAUGHN tlhaughn@franklincountyohio.gov  
HAUSMAN bhausmann@spkr.com  
Hayek zhayek@universityheights.com  
Hayes rhayes@adt.com  
HAYNES JR jhaynes@ovsi.net  
HAYNES JR bud.haynes@hamilton-co.org  
HAYS whays2@columbus.rr.com  
Heckelmos dheckelmoser@city.cleveland.oh.us  
Heckelmos donn.heck@gmail.com  
HECKENML mheckenmueller@masonoh.org  
Hed rhed@summitfire.com  
HEFFRON aircrue@hotmail.com  
HEIDEN lheidn@co.geauga.oh.us  
HEIDENESC raheidenscher@columbus.gov  
Heilman laura6111@roadrunner.com  
Heimbach adam@pennfire.com  
Heitkamp heitelec@yahoo.com  
HELMER shelmer@nkyei.com  
HELMS erichelms@woh.rr.com  
Helsel ron3636@hotmail.com  
HELSINGER rhelsinger@fairfield-city.org  
HEMMING mike.hemming@chapel.com  
HEMPFLING marylee502@yahoo.com  
HENDERSO nec\_inspector@yahoo.com  
HENDRICKS bdh@zoominternet.net  
Henry henry@cvelimited.com  
HENSLEY dhensley@fairfield-city.org  
Hermanson bhermanson@tristarfire.com  
HERNANDE dentinm@ameritech.net  
HERWERDE nherwerden@middleburgheights.com  
Hess Jr. rhess13@woh.rr.com  
HESTER john9@zoomtown.com  
HIATT mhiatt@a1ssi.com  
HICKMAN jhick007@gmail.com  
HICKMAN l rhickman@neo.rr.com  
Hicks bhicks@bass-security.com  
HICKS whicks@mcfs.us  
HILDITCH dave.hilditch@comunale.com  
HILL gailene.hill@cincinnati-oh.gov  
Hinkle jeffery.hinkle@cincinnati-oh.gov

HISSEY jehissy@columbus.gov  
HITTINGER davidhittinger@gmail.com  
Hlad mhlad@macedonia.oh.us  
HOBART steve.hobart@whitehall-oh.us  
HOBGOOD esi942@woh.rr.com  
HOBSON mhobson@calcominc.com  
HOCEVAR hocevar@southerussell.com  
Hodges MSH88SLH@aol.com  
Hodulik khodulik@zoomtown.com  
Hoffman rick.hoffman@cantonohio.gov  
HOFFMAN r.hoffman@ieee.org  
Holbert hholbert@sycamoretownship.org  
Holbrook jholbrook@co.delaware.oh.us  
HOLDERM/ holdermand@zoominternet.net  
Holfeltz jacobman1@sbcglobal.net  
HOLMAN gholman1@hotmail.com  
HONEYCUT alleycatlures@yahoo.com  
HONG corkyhong@totalink.net  
HOPPER chet.hopper@gmail.com  
HORNER thorner@cityofwestlake.org  
HORNER whorner@woh.rr.com  
HORSEMAN buildinginspector007@msn.com  
HORSTMAN horstmand@mcoho.org  
HORVATH shorvath002@neo.rr.com  
HORVATH . chorvath@northrandall.com  
HOUPPT rhouppt2000@yahoo.com  
Houston jhouston@city.cleveland.oh.us  
HOVANCSE hovancsekl@orangevillage.com  
HOWARD brentdhoward@gmail.com  
HOWARD markhoward607@gmail.com  
Hren hren@cvelimited.com  
Hribar lhribar@sbcglobal.net  
HRICZIK j.hriczik@csuohio.edu  
Hubbard dan.hubbard@uponor.com  
HUBBS gary.hubbs@co.warren.oh.us  
HUBER chuber@medinaco.org  
HUBER chuber3@neo.rr.com  
HUELSMAN fpdinc@gmail.com  
Hughes bhughes@cityofeuclid.com  
HUGHES darhughes@aol.com  
HUIET tomh@cityofmiddletown.org  
HULSEY mike@lima.parable.com  
HUMMEL dkhum67@aol.com  
HUMPHREY humphreyjohn@sbcglobal.net  
Hunt ajhunt@columbus.rr.com  
HUNZIKER ahoakwood@hotmail.com  
HURST jhurst@cityofbrookpark.com

Hussain nhussain@city.cleveland.oh.us  
HUSTON mhuston@baymec.com  
HUTSON shutson@sonitrolsw.com  
ICE aaron.ice@cincinnati-oh.gov  
ILIANO miliano@city.cleveland.oh.us  
INGRAM ingramd@ci.hamilton.oh.us  
INMAN michael.inman@hamilton-co.org  
IRVINE rirvine@co.delaware.oh.us  
IRVINE JR dirvinejr@brigadefire.com  
IVENSO manny.ivenso@cincinnati-oh.gov  
IWAN MIwan@city.cleveland.oh.us  
Iwenofu t\_iwenofu@yahoo.com  
Jackson brj@squareonearchitects.com  
Jackson drj@reagan.com  
JACKSON bobjackson@windstream.net  
JACOBS inspector509@yahoo.com  
JACOBS larry.jacobs@daytonohio.gov  
JACOBSEN curt.jacobsen@tnb.com  
JACQUES anthony.jacques@com.state.oh.us  
James micjam1965@yahoo.com  
JAMES terry.james@cincinnati-oh.gov  
JAMISON JI jackjamisonjr@comcast.net  
JANKOWSKI mjankowski@p-e-i.com  
JARUS tjarus@hotmail.com  
Jenkins zachjenkins07@yahoo.com  
JENKINS dewayne.jenkins@ketteringoh.org  
JENSEN al.jensen@securitycorp.com  
JERN jeff.jern@koorsen.com  
JEWETT tim.jewett@westerville.org  
JEWITT mark.jewitt@lakewoodoh.net  
JIANG ytjiang@com.state.oh.us  
JINDAL sudhir.jindal@com.ohio.gov  
Johnson gjohnson@ntainc.com  
Johnson bjohnson@radcoinc.com  
JOHNSON corvette721946@hotmail.com  
JOHNSON lynn.johnson@hamilton-co.org  
JOHNSON johnsonralphy@yahoo.com  
JOHNSON prjaia@wowway.com  
JOHNSON 2specfad@gmail.com  
JOHNSON stephjohns@gmail.com  
JOHNSON bjohnson@co.delaware.oh.us  
Joly martin.joly@vfpfire.us  
Jones rijones@simplexgrinnel.com  
Jones jeffjones0206@aol.com  
Jones rjones3760@gmail.com  
Jones radco.pitt@gmail.com  
JONES dmjmgmt@yahoo.com

Joseph alan.joseph@siemens.com  
JOSEPH josephbd1321@yahoo.com  
Juby r-juby@sbcglobal.net  
JUSTICE mjustice4198@gmail.com  
KACZOR plansappr@att.net  
KAMINSKI pdkaminski@aol.com  
KAMMER CAK1050@yahoo.com  
KAMPHAKE tvskamphake@fuse.net  
Karich kccconst@gmail.com  
KARR mark@mgfiredesign.com  
KASUNICK jokayservices@yahoo.com  
KAUFMAN rkaufmans@aol.com  
KAVARAS kavaras.mark@att.net  
KEARNS dkearns@fokeng.com  
KEEN chriskeen@woh.rr.com  
KELLEHER kellehermike1@gmail.com  
KELLER darkeller@gmail.com  
Kellerman deborah.kellerman@cincinnati-oh.gov  
Kelley jkelley8474@yahoo.com  
KELLEY kevin.kelley@lakewoodoh.net  
KELLEY bobkelley@triscontrols.com  
KELLY markpkelly@bex.net  
KENT GRKENT@CO.STARK.OH.US  
Kepple djkepple@gmail.com  
KERST rak1776@earthlink.net  
KESSINGER greg@firealarm.org  
KESSLER kesslergl@butlercountyohio.org  
KESSLER jkessler@zenithsystemsllc.com  
Kidd kiddg2@netzero.com  
KIEFFER lawrence.kieffer@cincinnati-oh.gov  
KIEFFER lwkieffer@earthlink.net  
KIGHT kelly.kight@ci.chillicothe.oh.us  
Kilbane jjk5755@hotmail.com  
KILEY dkiley@kaarchitecture.com  
Kilgore Jr. dkilgore@telgian.com  
KING kk7105@sssnet.com  
KING gekmb@msn.com  
King-Bey pking-bey@city.cleveland.oh.us  
KIRBY JR ferd.terri@gmail.com  
KIRIN dkirin@cityofoberlin.com  
KITCHEN lkitchen99@aol.com  
KITTRICK alexplus5@aol.com  
KITZMILLEF rgkitz@yahoo.com  
Klakamp bklakamp@sbcglobal.net  
KLEIN jklein\_3@yahoo.com  
Klenke jklenke@clarkcountyohio.gov  
KLINAR richard\_klinar@cityoflorain.org

KLOCINSKI pklocin@co.lucas.oh.us  
Klubnick john.klubnik@comunale.com  
KLUG paul.klug@cincinnati-oh.gov  
Kneidl ronkneidl@fuse.net  
KNIESS phillkniess@sbcglobal.net  
KNIGHT whk03@hotmail.com  
KNILANS rknilians@clarkandpost.com  
KNISLEY jimbobalan@yahoo.com  
KNOX docdestructo@yahoo.com  
KOCAB mkocab@willoughbyohio.com  
Koch Jr. sideoutck@yahoo.com  
KOEHLER jpkoehler@columbus.gov  
KOKEN smokinkoken@sbcglobal.net  
Koller tskoller@columbus.gov  
KONYS pkonys@gmail.com  
KOOGAN koogan@buckeye-express.com  
KORNICK jbkornick@aol.com  
KOSKI ckoski@embarqmail.com  
KOSSLER randC816@gmail.com  
KOSSLER rkossler@simplexgrinnell.com  
KOSZTALA sk9@fuse.net  
KOSZTALA steve.kosztala@hamilton-co.org  
KOVACS skovacs1503@comcast.net  
KOWALCZY pkowalczyk@seuclid.com  
KRAFT wkraft@massillonohio.com  
KRAMER mkramer@ohiovalleyelectric.com  
KRINER hkriner@warren.org  
Krueger bill.krueger63@gmail.com  
Ksiri aksiri@columbus.rr.com  
Kueffner mike.kueffner@hamilton-co.org  
KULCHYTSK dk@studiodka.com  
KULCSAR sel.kulcsar@fairviewpark.org  
KUNZ tpk25@roadrunner.com  
KURELIC 1buckeyetom@gmail.com  
KURTZ inspectorkurtz@yahoo.com  
KURZEN jbkurzen@msn.com  
KUSS jonaku@aol.com  
KUZMA akuzma@co.greene.oh.us  
Kuznik rkuznik@cityofbayvillage.com  
Kuznik rkuznik17@gmail.com  
LABRIOLA jlabriola@summitoh.net  
LACAVA glml86@roadrunner.com  
LACKEY JR eugene.lackey@gmail.com  
LACKEY JR eugene.lackey@cincinnati-oh.gov  
LAHETTA plahetta@cityofelyria.org  
LaLonde llnddg@aol.com  
Lalvani latika.lalvani@gmail.com

LAMB chrisl@concordfp.com  
LAMPING clamping@clermontcountyohio.gov  
LANDEG blandeg@lakecountyohio.gov  
Landis llandis@ci.springfield.oh.us  
Langhorst evanlanghorst@gmail.com  
LANZER stuart.lanzer@siemens.com  
LARGE klarge@aol.com  
LARKIN dan@larkinelectric.com  
Larkins slarkins@city.cleveland.oh.us  
LASKO jlasko@com.state.oh.us  
LATTARULO william.lattarulo@hamilton-co.org  
Lauer bigtrain10@yahoo.com  
LAVALLE gene.lavalle@wowway.com  
LAW wesleylaw@aol.com  
Lawrence glawrence@simplexgrinnell.com  
LAZAROWSKI G.Lazarowski@gmail.com  
LECHER rricklecher@aol.com  
Ledbetter bledbetter@ntainc.com  
Lee rlee@ntainc.com  
Leffel mleffel@garfieldhts.org  
Leffingwell dleffingwell@hardfire.com  
LEHMAN jlehman@bw.edu  
LEHMAN clehman@ntainc.com  
Leitner gary\_leitner@yahoo.com  
LEMAITRE rlemaitre@oregonohio.org  
Lemanski lemanskijon@aol.com  
LEMASTER lemastere@mcoho.org  
LE-MON cindyle-mon@neo.rr.com  
LENKO blenko@dublin.oh.us  
LENZ lenzgroup@gmail.com  
LEONARD rleonard@ntainc.com  
LEOVIC dleovic@wickliffefire.org  
LESZCZYNSKI rleszczynski@telgian.com  
LEWIS glewis@shambaugh.com  
LEWIS llewis.obcc@gmail.com  
LEWIS dlewis@lifesafetyllc.com  
LEWIS MLEWIS@STOW.OH.US  
Lewis Sr jlewisr@sbcglobal.net  
LIEBIG hjliebig@aol.com  
LINN linnwilliam@yahoo.com  
LISTERMAN davel@concordfp.com  
Little ricklittle1219@aol.com  
Littrell tlittrell70@gmail.com  
LIVECCHI rlivecchi@netzero.net  
LLOYD bill.lloyd@ci.fairborn.oh.us  
LOBOSCHE loboschefski-brandon@maumee.org  
LOCKHORN dave.lockhorn@gmail.com

LOCONTI rloconti@munibis.com  
LOGUE mlogue@cityofgirard.com  
LONG dlong004@insight.rr.com  
LONG david.long@whitehall-oh.us  
LONG mlong@washingtontwp.org  
LOPER eloper@dublin.oh.us  
Lopez llopez@city.cleveland.oh.us  
Loree mattloree@yahoo.com  
LOTUS lotuselectrix@yahoo.com  
Loury-Blockum gbblockum@city.cleveland.oh.us  
Loury-Blockum leeloury@yahoo.com  
Lovece engineersl@aol.com  
LOVELL tlovell@nridgeville.org  
LOWMAN stefon.lowman@comunale.com  
LUCKETT JF tom.luckett@ketteringoh.org  
Lulla fisheye1858@aol.com  
LUSTER SR joseph.luster@cincinnati-oh.gov  
LUSTER SR cincystop@yahoo.com  
Lutz brettlutz@mdia.us  
LYDAY dlyday@groveport.org  
LYNAM JR rjaylynam@tpmechanical.com  
Lyons rlyons@cityofbayvillage.com  
LYONS mlfireshdesign@gmail.com  
LYONS jlyons@hwceng.com  
Macartney macartney620@yahoo.com  
MacBride dona149@dom.com  
MacBride pmacbride@cityofwestlake.org  
MACIASZETA jimmyemac@gmail.com  
MACK jmack@ecohba.com  
Mackless j1060@roadrunner.com  
MAGUIRE allan.maguire@comcast.net  
MAHAFFEY ronmahaffey@cinci.rr.com  
MAHONEY mjxmahoney@earthlink.net  
MAICHLE jmaichle@clvhts.com  
MALONEY tom.maloney@co.warren.oh.us  
MANDATO mandatoj@lyndhurst-oh.com  
MANGAN manganj@mcoho.org  
MANGIO amangio@yahoo.com  
MANION tjmanion@columbus.gov  
MANION memanion@columbus.gov  
MANOS moveup01@msn.com  
MANSOUR jmmansour@columbus.gov  
MAREK bn.marek@roadrunner.com  
Mariano pakamido@gmail.com  
MARINUCC ncx@msn.com  
Marksberry allenmarksberry@brownandbills.com  
MARRELLI jmarrelli@mayfieldvillage.com

MARRIOTT kmarriott@city.cleveland.oh.us  
MARSH jmarsh56@cox.net  
MARSHALL dmarshall@co.greene.oh.us  
MARSHALL acmarshall@msn.com  
MARSTILLE team.marstil@yahoo.com  
MARTI marti@cityofmentor.com  
MARTIN bobm675@fuse.net  
MARTIN RMARTIN15@WOH.RR.COM  
MARTIN panthers@insight.rr.com  
MARTIN kenmartinarchitect@netzero.net  
MARTIN JR martinsprinklerdeisgn@yahoo.com  
Massey freedomblue7@yahoo.com  
MASSON gmasson@cityofavon.com  
MASTANDI rmastandrea@solonohio.org  
MASTRINO cmastrino@woh.rr.com  
MATAN dbmatan@columbus.gov  
Mate robert.mate@lakewoodoh.net  
Matheis bikerbyjesus@gmail.com  
Mathews aray1230@gmail.com  
MATLACK dmatlack@co.delaware.oh.us  
Matthews cmatt2@roadrunner.com  
MAXWELL bmaxwell@simplexgrinnell.com  
May williamchey@sbcglobal.net  
MAYNARD walt@maynardent.com  
MCBRIDE mcbfamily1296@gmail.com  
MCBRIDE david.mcbride@whitehall-oh.us  
MCCARTHY chris.mccarthy@fs.utc.com  
MCCLINTO timmclintock@gmail.com  
MCCOLGAN wmccolgan@cityofparma-oh.gov  
McCORKEN rmccorkendale@americanfiretech.com  
MCCOURT mmccourt2@cox.net  
MCCOURT mmccourt@cityofbrookpark.com  
McCullah mikemccullah@yahoo.com  
MCCURDY mmccurdy@wowway.com  
MCDANIEL jmcdaniel@telgian.com  
McDermot mcdermott89@msn.com  
McDonald cdadale54@yahoo.com  
MCDONOL timothyj.mcdonough@gmail.com  
McDowell damcdowell@columbus.gov  
McElroy brian.mcelroy@hamilton-co.org  
MCERLANE wmcerlane@springdale.org  
MCFANN searayone19@aol.com  
MCFARLAN james.mcfarland@cincinnati-oh.gov  
Mcgee jbmarchitect@yahoo.com  
McGinley mmcginley@city.cleveland.oh.us  
MCGLOTHÉ david.mcglóthen@ci.fairborn.oh.us  
MCGURN II mcgurn.joe@gmail.com

MCINTYRE rmcintyre@fairfieldtwp.org  
MCINTYRE sighomeinc@aol.com  
MCLAUGHI rrmcl@ameritech.net  
MCLAUGHI cjmarct@yahoo.com  
McLelland mcron72@yahoo.com  
McMichael jmc michael@city.cleveland.oh.us  
MCMULDR rmcmuldren@medinaco.org  
MCNAMAR casey.mcnamara@hamilton-co.org  
MCREYNOL jmcreynolds1492@yahoo.com  
MEDANCIC muc9119@gmail.com  
MEDLEY bmedley@columbus.rr.com  
MEEHAN tudorlawn@gmail.com  
MEEKER rmeek2@hotmail.com  
MEEKS dougmeeks@brewersprinkler.com  
Meiring glenntmeiring@gmail.com  
Mejias-Yan joanne.mejias@ketteringoh.org  
MEMORY kvolt45@yahoo.com  
MENKE menkej@sbcglobal.net  
MENN david\_menn@sbcglobal.net  
MENSTER wmenster@comcast.net  
MEOLA jmeola@ctconsultants.com  
MERCER dmercer1@cinci.rr.com  
MERICLE emericle@woh.rr.com  
Merritt jimerritt@competentelectrical.com  
MERZ mmerz@hilliardohio.gov  
MESSING cmessing@femoranalarm.com  
MESSNER 326mmessner@lightstream.net  
Metrick metricksprinkler@yahoo.com  
METZ rometz@zoominternet.net  
Meyer tmeyerarch@neo.rr.com  
MEYER chrism@concordfp.com  
MEYER gerald.meyer@cincinnati-oh.gov  
MEYER mmeyer@co.wood.oh.us  
MEYERS joemey21@cox.net  
MICK rmick@ci.springfield.oh.us  
MIDGLEY kenneth1@aol.com  
MIELKE terry@mwmielke.com  
MIHALISIN mgmss@roadrunner.com  
Milinkovich marcvich@zoominternet.net  
Miller damiller1@sssnet.com  
Miller gmiller@co.delaware.oh.us  
Miller miller-plumbing@hotmail.com  
MILLER Randym@capfire.com  
MILLER kamlmm@netscape.net  
MILLER mike.miller@strongsville.org  
MILLER bobmiller2110@yahoo.com  
MILLER ididitnooneelse@yahoo.com

Mindyas jeff.mindyas@strongsville.org  
MINIHAN sean.minihan@cincinnati-oh.gov  
Minnick mattminnick@safetysystemsinc.net  
Mitchell m.ronald@sbcglobal.net  
Mitchell tsmitchell\_1965@hotmail.com  
MITCHELL jmitchell@centuryfp.com  
MITCHELL jimm@ma-architects.com  
MITCHELL mitchell.8@osu.edu  
MLYNAR patronml@aol.com  
MODAFARI jmodafari@simplexgrinnell.com  
Moeller wmoeller@cityofstbernard.org  
Molinski m\_molinski@yahoo.com  
Molnar dmolnar1@hotmail.com  
MONACO sky88line@hotmail.com  
MONACO ninomonaco@sbcglobal.net  
MONEA tmonea@woosteroh.com  
MONTAN nmontan@ecohba.com  
MONTGOM lamontgomery@columbus.gov  
Moody ajmoody200@yahoo.com  
Moore hardwkr17@yahoo.com  
MOORE tmoore1767@aol.com  
MOORE smoore019@columbus.rr.com  
MOORE sean.moore@hamilton-co.org  
MORAN kmoran256@aol.com  
MORELOCK reasemo@yahoo.com  
Morgan angela.morgan@daytonohio.gov  
MORO mmoro001@ameritech.net  
Morris pyro34230@gmail.com  
MORRIS morris06@adelphia.net  
Morton rdmorton\_77@yahoo.com  
MOSER jm26km24@roadrunner.com  
MUCCI statesese@gmail.com  
MUELLER jmueller@epssecurity.com  
MULARONI mularoni@aol.com  
MULLENS mmullens@hilliardohio.gov  
Mullins E50213@aol.com  
Mullins dmullins0982@yahoo.com  
MUMFREY mmumfrey@inspectionbureau.com  
Munz dmunz@ntainc.com  
Murawski Jbenniemurawski@yahoo.com  
MURPHY murphyfiredesign@yahoo.com  
MURRAY lgmurray@netzero.com  
Murray Jr tjmurray73@yahoo.com  
MURRY robertm@securitec1.com  
MUSKA davidw.muska@energizer.com  
Muzilla djmuzilla@yahoo.com  
Myers matt.myers@fssi.us

MYERS bdp@cityofstbernard.org  
MYERS jay.myers@fayette-co-oh.com  
MYERS Sharon.Myers@com.state.oh.us  
NADEAU wcnadeau@yahoo.com  
NADER joe.nader@kzf.com  
NAGY JR pnagy11@bex.net  
NAKOUZI raficn@forestpark.org  
NAPLES john.naples@com.state.oh.us  
NASH emscoord@westcarrollton.org  
NAYDER jnayder@ryanfp.com  
NEAL blneal@columbus.rr.com  
Neff cpastorella@sbcglobal.net  
NEFF dneff@koester-corp.com  
NEFF roger.neff@evendaleohio.org  
NEIGHBOR banvln@aol.com  
NELSON rnelson@medinaco.org  
NEMCHIK davidnemchik@msn.com  
NEMEC steve200769@yahoo.com  
Neufer tanarch@cox.net  
NEUMEYEF neumeyerken@yahoo.com  
Newhart raynew88@yahoo.com  
Nice KNICE@SSSNET.COM  
Nicholas jimn@firefoe.com  
NICHOLAS earniesr@firefoe.com  
NIED walnutrdg@gmail.com  
Niehart chrisniehart@oh.rr.com  
NIMON jnimon@newalbanyohio.org  
Nissel dnissel@sbcglobal.net  
NITZSCHE nitzsche@kentohio.org  
NITZSCHE nitz424@gmail.com  
NOE cnoe@cityofsharonville.com  
NOE claude.noe@gmail.com  
NOLAND L7445@aol.com  
NORRIS donn63@comcast.net  
NORTH kevinnorth@firedande.com  
NOTTER hnotter@suite224.net  
NOTTURNI. tonynotturniano@gmail.com  
NOVAK nj8464@sbcglobal.net  
Nugent pnugent@rrcity.com  
Nupp pjnupp@gmail.com  
NUSKY nuskydl@butlercountyohio.org  
Nussbaum mnussbaum@woosteroh.com  
Nystrom cnystrom@city.cleveland.oh.us  
OBERST koberst@integratedprotection.com  
O'BRIAN reo'brian@columbus.gov  
OCKINGTO ockington@frontier.com  
O'CONNELI mvoconnell@sbcglobal.net

O'CONNELI moconnell@city.cleveland.oh.us  
O'CONNOR boconno@live.com  
O'CONNOR boconnors@elford.com  
O'Donnell jodonnell@cityofeuclid.com  
OHLER dohler@com.state.oh.us  
Oldham bill@apfire.net  
Oliver mark.oliver@cincinnati-oh.gov  
Oliver olivers1092@yahoo.com  
OLIVER JR ned.oliver@autotechfire.com  
Olszewski volszewski@co.union.oh.us  
Olszewski vicolszewski@gmail.com  
OPATRY carlopatry@sbcglobal.net  
OPREA steve.oprea@strongsville.org  
O'REGAN pipewerx@yahoo.com  
Ores oresbrian@yahoo.com  
ORR borr@simplexgrinnell.com  
OSGOOD rosgood@cityofsharonville.com  
OSPELT ospelt@sbcglobal.net  
OSSEGE stephen.ossege@cincinnati-oh.gov  
OSTERDAY costerday@ntainc.com  
OSTERTAG bobo2@aaahawk.com  
OTTO eric.otto@cincinnati-oh.gov  
OYSTER royster@simplexgrinnell.com  
PACHAN wmichael9@gmail.com  
PACKARD spackard1@msn.com  
PAHANISH BPahanish@aol.com  
PAIGE gpaige@cityofstreetsboro.com  
PAISLEY kpaisley@hotmail.com  
PALL richspall@aol.com  
Pallens joepallens@yahoo.com  
Parker bparker@co.champaign.oh.us  
PARKER jparker81546@aol.com  
PARKER kenparker@hlparker.com  
PARROTT bparrott@columbus.rr.com  
PARSLEY parsley8993@msn.com  
PARSONS larryparsons65@yahoo.com  
PARSONS larry@cityofspringboro.com  
Passarell pbihomeimprovement@gmail.com  
PATRICK duane.patrick@vfpfire.us  
PATRICK rlpelectric@aol.com  
PATTERSON mpatterson@live.com  
PATTERSON doug.patterson@atech-fire.com  
PATTON rp4290160@aol.com  
PATZKOWS chpatzkowsky@msn.com  
PAULLIN devonddp@gmail.com  
Paulsen jpaulsen@wittenberg.edu  
PAULSEN john@crowdfire.com

PAYNE jwpayne@earthlink.net  
PAYNE talt4093@yahoo.com  
Pearce jpearce@superiorfire.net  
PECH apech@arpheating.com  
Peltz peltzd@north-olmsted.com  
PENNIX jerod.pennix@cantonohio.gov  
Peoples lpeoples@yahoo.com  
PETERS bpeters@preferredfire.com  
PETERSON bisliwin@co.trumbull.oh.us  
PETO fpeto@att.net  
PETRIE dpetrie@cebridge.net  
Petro cpetro@city.cleveland.oh.us  
Petrou candtp@live.com  
PETTIT II RPETTIT@CO.UNION.OH.US  
PHILLIPS advancedfire@frontier.com  
PHILLIPS william.phillips@com.state.oh.us  
PHILLIPS JR dphillips@columbus.rr.com  
Phipps mphipps@delawareohio.net  
PIASECKI JF jerry@gfpadvantage.com  
PIATAK jpiatak@sbcglobal.net  
Piatt mpiatt@integratedprotection.com  
PIATT mpiatt@fairfield-city.org  
PIAZZA donald53@juno.com  
PIETRZAK rdy2race02@woh.rr.com  
PINKERMA esinspector@ameritech.net  
PINKNEY pincdogg@sbcglobal.net  
PIRKO johnpirko@att.net  
PISCOPO rapiscopo@roadrunner.com  
PITZER gpitzer@clermontcountyohio.gov  
PITZER inspector510@yahoo.com  
Pizzuti gpizzuti@glennpizzutiarchitect.com  
PLANT hplant@uaschools.org  
PLATTON mplatton@aol.com  
PLAZA saul\_plaza@cityoflorain.org  
Plowman chadplowman@yahoo.com  
Pochatek jpochatek@cityofberea.org  
POE gpoe@inspectionbureau.com  
POIRIER m-epoirier@sbcglobal.net  
POIRIER mpoirier@groveport.org  
POLAND icerun@woh.rr.com  
POLING troy@affordablefirepro.com  
POLINSKI spolinski@cityofoberlin.com  
POLINSKI stevepolinski@adelphia.net  
POLLEY pjpolley@earthlink.net  
POLLOCK JI pol8129@yahoo.com  
Ponchak gponchak@ipsid.com  
Pool timpool@sbcglobal.net

Poorman jarrodp@xfireprotection.com  
PORTER weilerot@gmail.com  
POST op317@sbcglobal.net  
POTTLITZEI todd@vulcanfiresystems.com  
POTTS robpotts1@woh.rr.com  
POULIMEN j.poulimenos@femoran.com  
POULOS building@ci.sandusky.oh.us  
Poulton ltctrpret@yahoo.com  
Powell kathleen.powell@siemens.com  
Powers rpowers@trarnold.com  
POWERS robert.powers@fayette-co-oh.com  
Price matt@capfire.com  
PRICE rprice14@columbus.rr.com  
PRYKAN lprykan@medinaco.org  
PRYOR jpryor@lcounty.com  
Pugh megpugh@windstream.net  
Puhl Sr gspbb@aol.com  
Purvis purviscircus@hotmail.com  
PUSKAS larrypuskas@yahoo.com  
PUSTI dpusti@mparc.com  
PUTNAM kwputt@horizonview.net  
PYERS georgepyers@yahoo.com  
PYERS gpyers@columbus.gov  
RABE rrabe@shambaugh.com  
RABER jraber@autotechfire.com  
RADY brady@painesville.com  
Ramos jramos@city.cleveland.oh.us  
RAMSER smrandajr@yahoo.com  
Randles randles93@gmail.com  
RANKIN carankin@columbus.gov  
Rapnicki mjrpnicki@sbcglobal.net  
RASKIN stanraskin@aol.com  
Ratliff cratliff1@fuse.net  
RAUCH crauch@washingtontpw.org  
RAWSON jrawson@villageofnewalbany.org  
REAPE reapemechanical@hotmail.com  
REAPER wayne.reaper@gmail.com  
Reedy pdq\_electrical\_contractors@yahoo.com  
REEVES MACREEVES52@CINCI.RR.COM  
REFFITT mreffitt@co.logan.oh.us  
REGAN michael.regan@com.state.oh.us  
REID rreid@co.union.oh.us  
Reiff cjeiff12@koorsen.com  
REINSMITH lreinsmith1@ci.wilmington.oh.us  
Reisdorf mreisdorf@richlandcountyoh.us  
Retherford retherfordmd@butlercountyohio.org  
Retherford MR05HD@aol.com

RETTBERG inspector64@att.net  
REVILOCK htrcom@ameritech.net  
REYNOLDS tim.reynolds@beachwoodohio.com  
RHODES kevin.rhodes@cincinnati-oh.gov  
RHYM rryhm@sbcglobal.net  
Riccardi rriccardi@city.cleveland.oh.us  
Rice ricepaddy1@hotmail.com  
RICHARDS(J) jarichardson@columbus.gov  
RICH(CREEK) LLRichcreek@muskingumcounty.org  
RICH(HART) danrch@aol.com  
Richter drichter@ntainc.com  
RIEDE bill@riceelectricalsales.com  
Riggs artiststevenriggs@yahoo.com  
Riley brock.riley25@yahoo.com  
RILEY rriley@trarnold.com  
Rinehart rinehartwl@yahoo.com  
RISSER stephen.risser@gmail.com  
Ritchey djritchey@herculesfire.com  
Ritchey fxritchey@columbus.gov  
Rivera cgcrivera@yahoo.com  
RIVERA riverak@ci.hamilton.oh.us  
ROAHRIG clroahrig@columbus.gov  
ROBBINS chrobbins@simplexgrinnell.com  
ROBERTS swilkie25@gmail.com  
ROBERTS proberts721@yahoo.com  
ROBERTS rer2295@neo.rr.com  
ROBINSON ttlogann@gmail.com  
ROBINSON chrobinson82@yahoo.com  
ROBINSON jeff.robinson@comunale.com  
Robison rrobison@cityofdefiance.com  
Robison rexandlori@aol.com  
RODIC bobrodic@mayfieldheights.org  
RODIC rrodic@twinsburg.oh.us  
ROE roefire@insightbb.com  
ROENIGK baroenigk@msn.com  
ROGERS grogers815@aol.com  
ROGGE crogge@preferredfire.com  
Romanyak andrew.romanyak@grunau.com  
Romito cherieandtonyromi@yahoo.com  
ROOSA inspecluso851@yahoo.com  
Rosato lelandrosato@gmail.com  
Rose ejrose@tjglss.com  
ROSE denniswrose04@yahoo.com  
ROSE brian.rose@fairfield-city.org  
ROSS santoro@one.net  
ROSS rossarch@msn.com  
ROSS metdross@hotmail.com

Roulette japadyn@columbus.rr.com  
ROUSH maroush@columbus.gov  
ROYAL seroyal@currenthvac.com  
ROZANSKI jrozanski@dublin.oh.us  
Rubadue tim@rubadueconstruction.com  
RUCKER jrucker3@woh.rr.com  
RUDA mjrgfps@yahoo.com  
RUDEY mrudey@co.wood.oh.us  
RUMMEL bob@rummelectric.net  
Rupert rupertd@ci.hamilton.oh.us  
RUSANOW jerusanowsky@gmail.com  
Rush lwb704@hotmail.com  
Rush jrush@asebrook.com  
RUSINOW chunkner@aol.com  
Russ charles\_russ1964@yahoo.com  
RUSSELL dandrussell@sbcglobal.net  
RUSSELL inspectorrussell@yahoo.com  
RUSSO arusso3@oh.rr.com  
RUST rj51rust@cinci.rr.com  
Rutti drutti@sbcglobal.net  
RYAN DSRYAN@FUUSE.NET  
Sack rsack@cityofwickliffe.com  
Sadler asadler@asebrook.com  
SALATA dukdipple@roadrunner.com  
SALLAZ charnsal@att.net  
SALMEN steve.salmen@comunale.com  
Salsbury joes03@att.net  
SAMMON dsammon@centervilleohio.gov  
SAMPSEL msampsel@co.union.oh.us  
SANDER tal61@aol.com  
Sanders jsanders@co.greene.oh.us  
SANKAL sank2new@yahoo.com  
Santillo aeselectric@sbcglobal.net  
Santillo vsantillo@city.cleveland.oh.us  
SANTORA rsantora@city.cleveland.oh.us  
Sarwar stt5fz@msn.com  
Savasta msavasta@cityofpascagoula.com  
Saxe dsaxe@macedonia.oh.us  
Sayre rjgard950@aol.com  
SCHAEFER jcschaefer@columbus.gov  
SCHAFER ohbeemer2004@yahoo.com  
SCHARTON johnscharton@schartonelectric.net  
SCHETTLER dschett937@zoominternet.net  
SCHIFERL dsqualityfire@embarqmail.com  
SCHILLING rschill@hughes.net  
SCHMENK wschmenk@att.net  
Schmersal g.schmersal@yahoo.com

Schmidt randall\_ds@yahoo.com  
Schmidt mschmidt@freemanwhite.com  
SCHMIDT fsdinc@hotmail.com  
SCHMIDT rschmidt@ovis.cc  
SCHMITT schmitt.ronald@gmail.com  
SCHMITZ schmitzjsj@hotmail.com  
SCHNEIDEF schneiderj@north-olmsted.com  
SCHOENER steve.schoener@daytonohio.gov  
SCHOLL sscholl@fmsarchitects.com  
SCHREINER paulmschreiner@gmail.com  
SCHRIEWEL richard.schriewer@cincinnati-oh.gov  
SCHUELER jeschueler@fuse.net  
SCHULKE wgschulke@woh.rr.com  
Schultz william.schultz@toledo.oh.gov  
SCHULTZ gaschultz@columbus.gov  
SCHUTZ rjschutz@aol.com  
Schwonek pschwonek@yahoo.com  
SCOLARO SCOLAROGERALD@YAHOO.COM  
Scott stevescott723@gmail.com  
SCOTT artanis58@yahoo.com  
SCRAGG trscragg@newtechwv.com  
Scudder bscudder@telgian.com  
SEBASTIAN sebastianlr@msn.com  
SEGUIN jseguin@firelinesprinkler.com  
SEIBERT anseib@atmc.net  
SELLERS JR ernie.sellers@cantonohio.gov  
SELLS levisells@eckertfireprotection.com  
SEMPSPROT ron.sempsrott@co.warren.oh.us  
SERINA pserina@sbcglobal.net  
SETTERS dts@dts-llc.com  
SEYBOLDT pseyboldt@sbcglobal.net  
SHAFFER tshaffer@clarkcountyohio.gov  
SHAFFER donshaffer@woh.rr.com  
Shane pshane@summitoh.net  
SHANER mshanermike@aol.com  
SHARP dsharp@avenfire.com  
SHARP wsharp@cincylifesafety.com  
SHAVER mshaver@maverickfirepro.com  
SHAW rs60rs@buckeye-access.com  
SHAWVER dshawver@co.greene.oh.us  
Sheehy sheehy@cvelimited.com  
SHELDON roundtowncbo@hotmail.com  
SHENOT mshenot@summitoh.net  
Shepherd shepherd@buckeye-express.com  
Shewfelt nshewfelt@telgian.com  
SHIELDS william\_shields@earthlink.net  
SHIELDS 806gtp@gmail.com

SHILLING shilling@toast.net  
Shirey danshirey575@gmail.com  
Shockley mshockley@city.cleveland.oh.us  
SHORTER estringshorter@yahoo.com  
SHULL bshull@brigadefire.net  
SHUMAKEF deshumaker@att.net  
Siebert m\_siebert@att.net  
Siegfried rsiegfried@rsaarchitects.com  
SIEHL siehl@englewood.oh.us  
SIERKS rsierks@trarnold.com  
SIEVERS ssievers1@hotmail.com  
SILLA fsilla@juno.com  
SILLA fsilla@massillonohio.com  
SILVER charlesshelley@aol.com  
SIMMONS knsimmons216@roadrunner.com  
SIMON martinsimon@sprintmail.com  
Simonian hurst4me@aol.com  
SIMONS wsimons@eriecohealthohio.org  
SINCLAIR msinclair@city.cleveland.oh.us  
SINCLAIR ksinclair@integratedprotection.com  
Sindelar sindelarjeff@gmail.com  
SINES III rsines@simplexgrinnell.com  
SINGLETON jsingleton@westlickingfire.org  
Sisia tyler@pdssystem.com  
Sisia philip@pdssystem.com  
SIVINSKI dsivinski@uaoh.net  
SKAPIN jskapin@aol.com  
SKELDON sskeldon@wtwp.com  
Skurka askurka@adaarchitects.cc  
SKVASIK mjskvasik@gmail.com  
Sloan mfsloan1@yahoo.com  
Slota fcslota@hotmail.com  
SMEREK smerekroseann@yahoo.com  
Smith c.smith@siemens.com  
Smith csmith2@city.cleveland.oh.us  
SMITH smithgrs@fuse.net  
SMITH rick.smith@comunale.com  
SMITH rsmith@centralfp.com  
SMITH smithcandrew@aol.com  
SMITH smithrd@ci.hamilton.oh.us  
SMITH greg.smith@daytonohio.gov  
SMITH tsmith@coz.org  
SMITH jps4444@gmail.com  
SMITH geojsmith@windstream.net  
SMITH jasmith7520@yahoo.com  
SMITH niceter4@grandecom.net  
SMITH dlsmith@co.ashtabula.oh.us

Smoot trixsy@gmail.com  
SMYCZEK ongeeson@att.net  
SMYTHE rsmythe@ohioelectricsservices.com  
Snider justin.snider@jesshoward.com  
SNODGRAS PEDBZl@westcarrollton.org  
SNODGRAS m.snodgrass@westcarrollton.org  
Snyderburr msnyderb04@hughes.net  
Sobotka tsobotka@cityofelyria.org  
SOCOLOFF shelnan1@roadrunner.com  
Sonenstein howardsonenstein@aol.com  
SOULES rsoules@neo.rr.com  
Spada dwsrt74@aol.com  
Sparks jpsparkscountry@yahoo.com  
SPEARS tearle.spears@toledo.oh.gov  
SPENCER spncr497@aol.com  
SPEWEIKE speweike@msn.com  
SPIERS espriers@co.delaware.oh.us  
SPIES espies@zoomtown.com  
SPILLE kjspille@aol.com  
SPIVEY sspydux@aol.com  
SPLAWN shannon.splawn@jacobs.com  
SPRAGG mspragg437@comcast.net  
Spruill Jr jcspruill@columbus.gov  
SPRY michael.spry@cincinnati-oh.gov  
SPURLING spurjp@co.warren.oh.us  
SPURLING crazyones@zoomtown.com  
SPURLING dspurling@clermontcountyohio.gov  
SPURLING spurling3355@roadrunner.com  
STACEY jstaceyinspector@yahoo.com  
STACY mstacy1@columbus.rr.com  
STADLER robert\_g\_stadler@keybank.com  
STADLER stadra@co.warren.oh.us  
Stadtman rstadtman@fire101.net  
Stahl jacksue\_1981@yahoo.com  
Stallman II towncraftbuilders@gmail.com  
Stalnaker rewire70@gmail.com  
STALTER donalde.stalter@energizer.com  
Stanback fortypoint2@yahoo.com  
Standerling standering@aol.com  
Stanich stanich.chris@gmail.com  
STANLEY gws@wiginton.net  
Starks duane.starks@cincinnati-oh.gov  
States stateselectric@centurylink.net  
Steele burlsteele@buckeye-express.com  
STEHLIN mstehlin@gmail.com  
Steidel yarn2crochet@yahoo.com  
Steigerwald petesteigerwald@aol.com

Steiner electric65@ymail.com  
STEINGASS sarahjo4@comcast.net  
STELZER rstelzer@insight.rr.com  
STEMM DCCS@COZ.ORG  
STEPENBA/ dsteppenbacker@twinsburg.oh.us  
Stevens dstev111@aol.com  
STEWART lstewart@brigadefire.net  
STEWART phil\_stewart1224@yahoo.com  
STEWART Petegstewart@gmail.com  
Stewart III bstewart742@yahoo.com  
STIEB bobstieb@gmail.com  
STIGALT jstigalt@eastlakeohio.com  
STIGALT jstigalt@aol.com  
Stillion cs8485@gmail.com  
STITT tbr1563@aol.com  
STITZEL dstitzel@vandaliaohio.org  
STOCKSDAI jestocksdale@columbus.gov  
STOCKY mstocky@hughes.net  
STOECKEL doug.stoeckel@insightbb.com  
STOKER gerry@stoker.org  
STOLL tad.stoll@cityofspringboro.com  
Stoltz bstoltz1@hotmail.com  
Stone mstonecaps@yahoo.com  
Stone ostone54@hotmail.com  
Stone fyerguy1998@sbcglobal.net  
STONE jstone11@neo.rr.com  
STONER sues@wolverinefp.com  
Storey cincystitch@hotmail.com  
STOROZUK mstrohz51@gmail.com  
STOUFFER lstouffer@bedfordoh.gov  
Stover john.stover@continental-fire.com  
STRATTON ronaldwstraton3461@sbcglobal.net  
STRICKHO dstrichko@lakecountyohio.gov  
STRICKHO bidelectric@windstream.net  
STRICKLAN barrys@strickcsi.com  
STRICKLAN durango105@sbcglobal.net  
STROME bob.strome@cityofmiamisburg.org  
STROUD dhoodman43@yahoo.com  
STROUT richard.strout@siemens.com  
Studer studers4@yahoo.com  
STUDER tastuder@hotmail.com  
STYBORSKI kcajski@ameritech.net  
Sugar asugar@city.cleveland.oh.us  
SUGAR elvissugar@hotmail.com  
SUGAR ed.sugar@gmail.com  
Sullivan jsullivan518@yahoo.com  
SURELLA surella@wowway.com

SUSAK meighansmimi@aol.com  
SUSONG rsusong@woh.rr.com  
SWAN swanstef@bex.net  
SWARTZ klswartz@hotmail.com  
SWEENEY michael.sweeney@cincinnati-oh.gov  
SWEIGARD dsweigard@wcgov.org  
SWICK edwardhswick@sbcglobal.net  
Switzer therentedpencil@roadrunner.com  
SWOPE gswope@co.wood.oh.us  
SWYMELEF todd.swymeler@gmail.com  
SYLVESTER john@sylvesterdesign.com  
SZKUDLARI ellsworth Eugene@hotmail.com  
Taborn jeff.taborn@ci.chillicothe.oh.us  
Tadych christopher@architects-llc.cc  
TAGGART cheryl.taggart@cincinnati-oh.gov  
TALBOTT rstalbott@brewersprinkler.com  
Tanner tanner.jr@fuse.net  
TANSY btansy@dalmatianfire.net  
TAPPER wjtapper@hotmail.com  
TARKEY tarkey@sbcglobal.net  
TARVIN tarvinelectric@zoomtown.com  
TATRO ldtatro@muskingumcounty.org  
Taylor ltaylor@spkr.com  
Taylor dtaylor@bass-security.com  
Taylor brock.taylor@daytonohio.gov  
TAYLOR tytaylor@hotmail.com  
TAYLOR twtaylor@columbus.gov  
TAYLOR rtaylor@city.cleveland.oh.us  
TAYLOR al.taylor@cincinnati-oh.gov  
TAYLOR kmjt2000@cox.net  
TAYLOR taylorbros@att.net  
TAYLOR jtaylor@painesville.com  
TEAL pteal@com.state.oh.us  
TEGELER btegeler@ntainc.com  
Temkiewicz: tooski@gmail.com  
TEMME ltem32@yahoo.com  
TENSI davetensi@yahoo.com  
TEPE darlenetepe@gmail.com  
TESAR timothytesar@mayfieldheights.org  
Thom sthom@ecghd.org  
Thomas ddt@columbus.rr.com  
Thomas jt92577@yahoo.com  
Thomas ohioarchitect@gmail.com  
Thomas thojr31@yahoo.com  
Thomas bradenthomas1@gmail.com  
THOMAS rthomas3801@gmail.com  
Thomason thomasonm@zoominternet.net

Thompkins teethompkins@sbcglobal.net  
THOMPSON tfpdllc@gmail.com  
THOMPSON ncfire@earthlink.net  
THOMPSON Pappaw0057@yahoo.com  
THOMPSON jntcrafts@msn.com  
THOMPSON mthomp3@frontier.com  
THOMPSON electriclynn@bex.net  
THORNTON pthornton@sixmoae.com  
TILLER tillerd@uakron.edu  
TIPTON onedogand3cats@aol.com  
TIROLY atiroly@atcofirepro.com  
TODD hrtodd03@sbcglobal.net  
TOMPOS dtompos@ntainc.com  
TOMPOS gtompos@ntainc.com  
TOOLE keywest57@frontier.com  
TOY JR evttoy612@zoominternet.net  
TREBISKY dtrebisky@simplexgrinnell.com  
Trent n2\_actn@yahoo.com  
TRENTMAN strentman@eckertfireprotection.com  
TRIBOLET ctribolet@frontier.com  
Trill bngplumbing@yahoo.com  
TUCKER jtucker4@frontier.com  
TUCK-MAC ericmacalla@yahoo.com  
TUDOR gatudor@columbus.gov  
TUNISON tunisonj@mcoho.org  
TURCHANIK mturchanik@aol.com  
TURNER maturner50@cinci.rr.com  
TURNER turner1750@comcast.net  
TURNER gtelectric2@aol.com  
TURNER lcturner44@aol.com  
TUSING ron@rontusing.com  
TUTTLE larryt@cityofmiddletown.org  
TYLER jtyler@dublin.oh.us  
UBELHOR du374@aol.com  
ULRICH bruce@jacksonsprinkler.com  
ULRICH bulrich@co.lucas.oh.us  
UNGAR cungar@columbus.rr.com  
UNGERER gaungerer@yahoo.com  
URANKAR jurankar@sbcglobal.net  
UROSEVA juroseva@mahoningcountyoh.gov  
UTER III uterplumbing2007@yahoo.com  
UTIS innau@sbcglobal.net  
Vail pvail@ci.lancaster.oh.us  
Valerius tvalerius23@aol.com  
VAN GORD tvangorder@silcofs.com  
VANBENSC phil.vanbenshoten@hamilton-co.org  
VANCE vancecapt15@midohio.twbc.com

Vandergriff d.vand@yahoo.com  
Vandermar tvanderman38@fuse.net  
VANHART Gary.VanHart@Hamilton-co.org  
VANHART vanhartengr@yahoo.com  
VANOVER tomvanover1@gmail.com  
VANTINE chuck.vantine@honeywell.com  
VAUGHN S rvaughn@orrprotection.com  
Velez evelez@city.cleveland.oh.us  
Velez evelez.sbg@att.net  
Velez davidvelezelectrical@yahoo.com  
VENDELAN normanvendeland@yahoo.com  
VERBIAR joeverbiar@yahoo.com  
VESELSKY dveselsky@city.cleveland.oh.us  
VICARS wcvicars@frontier.com  
VIGORITO tvigorito@thecityofniles.com  
VILKAS robert.vilkas@hotmail.com  
VINAY mvinay@cityofbarberton.com  
VINCENT III wcviii@yahoo.com  
Virosteck tteck67@yahoo.com  
VITTARDI blueboy7661@yahoo.com  
VOGEL steevo6161@yahoo.com  
VOGEL svogel@medinaoh.org  
VOLLE dvolle@cityofbayvillage.com  
VON DUHN mike@bassettsprinkler.com  
VON DUHN mikevonduhn@hotmail.com  
VOROS jvoros@nridgeville.org  
VUKETICH ronaldvuke@aol.com  
WADE clwade@columbus.gov  
WAGENKN kewagenknecht@columbus.gov  
WAGGONE waggoner@coastalwave.net  
Wagner robert.wagner@cincinnati-oh.gov  
WAGNER markwagner@poulosarchitects.com  
WALDEN katwalden@live.com  
WALKER walkerbtw@yahoo.com  
WALKER napskarenwalker@yahoo.com  
WALKER JR DWalker@northcantonohio.com  
WALKER JR heywalk2000@yahoo.com  
WALSH epayer@eastlakeohio.com  
WALSH tim@bci-tech.com  
WALTERS dynatimhd@yahoo.com  
WALTERS mwfpd7@yahoo.com  
WALTERS inspector514h@yahoo.com  
WALTON Jf jwalton@trarnold.com  
WAMBO patrick.wambo@sbcglobal.net  
Ward michaelward9744@sbcglobal.net  
WARD rlw8169@yahoo.com  
Warner M@mlwarnerarchitects.com

Warner jwarner@delawareohio.net  
Warnock twarnock@lcounty.com  
WASKIELIS robert.waskielis@comunale.com  
WASSERM gwasserman@ci.oregon.oh.us  
Watercutte mkwatercutter@myfrontiermail.com  
WATKINS troywatkins1111@gmail.com  
WATSON mwatson@akronohio.gov  
Webber radco@bnin.net  
Weber rgweber159j@aol.com  
WEBER frankweber@oh.rr.com  
WEHRKAM mwehrkamp@wehrkampengr.com  
WEISSMAN tweissmann1@fuse.net  
Welch bobby.welch@tpmechanical.com  
WELCH bwelch@tyco.com  
WELKER terry.welker@ketteringoh.org  
Wells rwells@city.cleveland.oh.us  
WELLS 2mjwells@gmail.com  
WELLS dwells@richlandhealth.org  
WELTNER jweltner@simplexgrinnell.com  
WENECK dennis@weneck.com  
WENNER neal.wenner@comunale.com  
WENZEL dwenzel@cityofpowell.us  
WENZLER twenzler@moraineoh.org  
WERVEY billvervey@adelphia.net  
WEST mwest@dalmatianfire.net  
Westcott II bighouse@bex.net  
Weston eric@firefoe.com  
WETTRICK rwet314@sbcglobal.net  
WETZEL swetzel779@aol.com  
WEYGAND john.wegandt@comunale.com  
Whewell awhewell@silcofireprotection.com  
White white@englewood.oh.us  
WHITE inspectormw@aol.com  
WHITE bwhite@milfordohio.org  
WHITE emdub2112@gmail.com  
WHITE inspectorfw@aol.com  
WHOLF wholf-bruce@maumee.org  
WHOLF bwholfman@yahoo.com  
Wiblin builddept@hotmail.com  
WICKMAN mawickman@aol.com  
WICKMAN jwickman@natsco.net  
WIELAND rwieland@fieldsfire.com  
WIEMAN lasawiemann@adt.com  
WIEMAN tsfadscott@aim.com  
WIESMAN wiesman@fuse.net  
WILCOX JR rtwilcox@zoomtown.com  
WILDER rwilder@cityofwestlake.org

WILDERMUTH mhwildermuth@oh.rr.com  
WILES greg.wiles@cincinnati-oh.gov  
Wiley wilos@hotmail.com  
WILHELM garylwilhelm@aol.com  
WILHELM gary@wristengineering.com  
Williams jwilliams@mov-is.com  
Williams lwilliams22@city.cleveland.oh.us  
WILLIAMS bwilliams@ashtabulacounty.us  
WILLIAMS twilliams@genesishcs.org  
WILLIAMS willifam@wcoil.com  
WILLIAMS rjwilliams@columbus.gov  
Williamson john.williamson@daytonohio.gov  
WILLMAN 131313@firehousemail.com  
WILLS mrwills@columbus.gov  
WILMOT danielwilmot@earthlink.net  
WILSON rwilson@firematic.comcastbiz.net  
WILSON kwilson@delawareohio.net  
WILSON polkaplayer9@gmail.com  
WILSON ctwilson@muskingumcounty.org  
WILSON pwilson@com.state.oh.us  
WINKEL winkelectric@hotmail.com  
WINN swinn@co.darke.oh.us  
Winters dennismwinters@yahoo.com  
WIRTH traileeking84a@yahoo.com  
WISE lonnie.wise@cincinnati-oh.gov  
WOJKOWS joewojkowski@yahoo.com  
WOJTILA fire5cpa@hotmail.com  
WOLFE wwolfe3120@aol.com  
WOLFF norma.wolff@cityofmiamisburg.org  
WOLNY larry@rlawconstruction.com  
WOLNY kellie@rlawconstruction.com  
WONG gwong@cityofsharonville.com  
WOOD bobbye.wood@cincinnati-oh.gov  
Woodward courage@roadrunner.com  
WOOLACE woolace@woolace.com  
WORKLEY tkworkley@yahoo.com  
WORKMAN joe\_w31@yahoo.com  
Wray mwray1444@hotmail.com  
WRIGHT rochellew@rwjsprinkler.com  
WRIGHT lloyd.wright@vfpfire.us  
WURTH pfwurth@bex.net  
WYCKOFF wyckoffm@mcoho.org  
Wyss Jr fdenningwyss@yahoo.com  
Wyss Jr fredwyss@willoughbyhills-oh.gov  
Yarrow jyarrow@garberconnect.com  
YODER dyoder@brigadefire.com  
Young ryoung@cityofbayvillage.com

Young ricyoung55@gmail.com  
YOUNG scottmyoung@yahoo.com  
YOUNG myoung@completegeneral.com  
YUPA misterbob2462@hotmail.com  
Yutzy yutzyheat@gmail.com  
ZAHN ddzahn@gmail.com  
ZALA lzala@roadrunner.com  
ZBASNIK jzbasnik@neo.rr.com  
ZELEZNIKAI frankzeleznikar@yahoo.com  
ZELLE JR chukzel@hotmail.com  
ZIEGLER zieglerjamesp@gmail.com  
ZIMMER II skip.zimmer@cincinnati-oh.gov  
Zimmerma tzimmerman@napoleonohio.com  
ZIMMERM, azimmerman@shambaugh.com  
ZIMMERM, jzimmerman@hurontwp.org  
ZINN markzinn@att.net  
ZOFKO dezcon@penn.com  
ZOMBEK tzombek@aol.com  
ZRONEK ZRONEK@ZOOMINTERNET.NET  
Zwahlen brettzwahlen@sbcglobal.net  
ZYTOWIECI rzytowiecki@wayneoh.org

Alliance feesslb@allianceoh.gov  
Amherst building@amherstohio.org  
Ashland kremser.shane@ashland-ohio.com  
Ashville agrube@ashvilleohio.gov  
Aurora wehrenbergr@auroraoh.com  
Avon bschumacher@cityofavon.com  
Avon Lake tcarleton@avonlake.org  
Barberton lhowe@cityofbarberton.com  
Beachwood building@beachwoodohio.com  
Berea buildingdept@cityofbera.org  
Bexley rshetler@bexley.org  
Bratenahl building@bratenahl.org  
Brecksville nwerner@brecksville.oh.us  
Brecksville spackard@brecksville.oh.us  
Brecksville ssynek@brecksville.oh.us  
Broadview rwestfall@broadview-heights.org  
Brook Park buildingdept@cityofbrookpark.com  
Brooklyn H ssocoloff@brooklynhts.org  
Brown Cou building@browncountyohio.gov  
Butler Cou chaneykk@butlercountyohio.org  
Canal Winc gwebb@canalwinchesterohio.gov  
Canton angela.cavanaugh@cantonohio.gov  
Carroll CLA@asebrook.com  
Centerville buildinginspection@centervilleohio.gov  
Champaign prittenhouse@co.champaign.oh.us

Cheviot wls@zoomtown.com  
Circleville dmorrow@pickaway.org  
Cleveland dcooper@city.cleveland.oh.us  
Cleveland H rferritto@clvhts.com  
Clinton Co clintoncobuildingzoning@yahoo.com  
Crestline mmilliron@crestlineoh.com  
Cuyahoga H w.heinzman@cuyahogaheights.com  
Dayton michael.cromartie@daytonohio.gov  
Defiance cseimet@cityofdefiance.com  
Doylestown jgardner@doylestown.com  
Dublin dfite@dublin.oh.us  
East Cleveland tbumbalis@eastcleveland.org  
East Cleveland swallace@eastcleveland.org  
Eaton ebd@cityofeaton.org  
Euclid lbock@cityofeuclid.com  
Euclid buildingdept@munibis.com  
Evendale donald.mercer@evendaleohio.org  
Fairfax jhester1@fuse.net  
Fairfield rick1@one.net  
Fairlawn randlesc@ci.fairlawn.oh.us  
Fairview Park bldgcom@fairviewpark.org  
Fairview Park marycay.scullin@fairviewpark.org  
Gahanna building@gahanna.gov  
Galion bobjohnston@ci.galion.oh.us  
Garfield H wwervey@garfieldhts.org  
Geauga Co mmihalisin@co.geauga.oh.us  
Girard petecgirardcity@hotmail.com  
Glenwillow mskvasik@glenwillow-oh.gov  
Grafton jklein@villageofgrafton.org  
Grandview jkuss@grandviewheights.org  
Grove City mboso@grovecityohio.gov  
Groveport smoore@groveport.org  
Hamilton C joy.peak@hamilton-co.org  
Harrison dbrooks@readingohio.org  
Hartville office@hartvilleoh.com  
Highland H bldg@vhhohio.org  
Independence lemkep@independence.org  
Kent nitzsche@kent-ohio.org  
LaGrange skyfox44035@yahoo.com  
Lake County jflanik@lakecountyohio.org  
Lebanon anna.helton@co.warren.oh.us  
Lithopolis mike@asebrook.com  
London vbenedetti@ci.london.oh.us  
Lorain heather\_graves@cityoflorain.org  
Louisville planningdirector@louisvilleohio.org  
Louisville citymanager@louisvilleohio.org  
Loveland eparker@lovelandoh.com

Lucas County smith@co.lucas.oh.us  
Lyndhurst kunzt@lyndhurst-oh.com  
Madison County dhughes@co.madison.oh.us  
Mahoning County aferns@mahoningcountyoh.gov  
Mansfield lprice@ci.mansfield.oh.us  
Mansfield grice@ci.mansfield.oh.us  
Mariemont dmalone@mariemont.org  
Mariemont commish40@gmail.com  
Marietta waynerinehart@mariettaoh.net  
Mason gnicholls@masonoh.org  
Massillon tward@massillonohio.com  
Mayfield dgarbo@mayfieldvillage.com  
Mayfield Heights tomjamieson@mayfieldheights.org  
Mount Healthy rosgood@mthealthy.org  
Muskingum County jetrout@muskingumcounty.org  
New Albany tschaffner@villageofnewalbany.org  
Newtown mtspry@fuse.net  
North Canton jfitch@northcantonohio.com  
North Olmsted mcreynoldsj@north-olmsted.com  
North Royalton dkulchytsky@northroyalton.org  
Norwood nbd@norwood-ohio.com  
Oberlin sphillips@cityofoberlin.com  
Obetz ohconsult@aol.com  
Olmsted Falls building@olmstedfalls.org  
Olmsted Township ttabor@olmstedtownship.org  
Oregon jgillmore@oregonohio.org  
Ottawa County dbarnes@co.ottawa.oh.us  
Parma building@cityofparma-oh.gov  
Parma Heights building@parmaheightsoh.gov  
Pepper Pike building@pepperpike.org  
Perkins Township beckys@perkinstownship.com  
Perkins Township jcurtis@perkinstownship.com  
Pickerington swhittington@pickerington.net  
Portage County rroberts@portageco.com  
Portsmouth pgilliland2@portsmouthoh.org  
Reminderville remindervillebuildingofficial@gmail.com  
Reynoldsburg fslota@ci.reynoldsburg.oh.us  
Richland County srisser@richlandcountyoh.us  
Rocky River rockyriver@rrcity.com  
Ross County rosscopb@bright.net  
Ross County rosscobd@bright.net  
Sandusky mstookey@ci.sandusky.oh.us  
Sebring finchacn@yahoo.com  
Seven Hills building@sevenhillsohio.org  
Shaker Heights heinz.akers@shakeronline.com  
Sheffield Village lesliee@sheffieldvillage.com  
Shelby County syoung@natinspect.com

South Amh peter@zwickengineering.com  
South Bloo southbloomfield@hotmail.com  
Springboro info@swobi.us  
Springdale building@springdale.org  
Springfield mwells@ci.springfield.oh.us  
Stark Coun srbergener@co.stark.oh.us  
Steubenvill cdp@cityofsteubenville.us  
Streetsbori cgomula@cityofstreetsboro.com  
Strongsville kathy.zamrzla@strongsville.org  
Summit Co kbrown@summitoh.net  
Terrace Pai jhester@terracepark.org  
Trenton rob@cityoftrenton.com  
Union ggreen@ci.union.oh.us  
University I building@universityheights.com  
Valley View lellis@valleyview.net  
Vandalia tbaker@ci.vandalia.oh.us  
Vermilion bobkurtz@vermilion.net  
Walton Hill ziegler@waltonhillsohio.gov  
Warren inspect1@warren.org  
Warrensvil mlester@cityofwarrensville.com  
Washingto conniejh@wcgov.org  
Washingto rbryant@cityofwch.com  
Wauseon thomas.hall@cityofwauseon.com  
Wauseon trudi.mahnke@cityofwauseon.com  
Wayne Cou vwidmer@wayneoh.org  
West Carro Rsnodgrass@westcarrollton.org  
Westerville edward.ungar@westerville.org  
Westlake lschaefer@cityofwestlake.org  
Willoughby rsmith@willoughbyohio.com  
Willoughby kstewart@willoughbyohio.com  
Willoughby building@willoughbyhills-oh.gov  
Willowick jdominick@cityofwillowick.com  
Wilmington mhorer@ci.wilmington.oh.us  
Worthingto dphillips@ci.worthington.oh.us  
Wyoming tvanderman@wyomingohio.gov  
Zanesville buildingcode@coz.org  
Alliance to mellingson@ase.org  
American C acec@acec.org  
American I infocentral@aia.org  
Baldwin, M mikebaldwin@metlabs.com  
Berardi anc lbrehm@berardipartners.com  
Buckeye Pc tstaats@buckeyepower.com  
Building Co yjiang@com.state.oh.us  
Building Ov sesterly@bomacleland.org  
Campbell E chadd@campbellequipment.com  
Clearcreek chris.vecchi@clearcreektownship.com  
Cornwell, F pvcornwell@yahoo.com

CR Architect j.berry@cr-architects.com  
Cuyahoga F miertp@cityofcf.com  
Dewi, Shirli shirley.dewi@iapmort.org  
Erb, Ron rerb@smeinc.com  
Federal Em fema-correspondence-unit@dhs.gov  
Finley, Ton tonyf@inverness-usa.com  
Gross Build Rick@Grossbuilders.com  
Grundahl, I kgrundahl@qualtim.com  
Hirt, Bill bhirt@anab-aiclass.org  
Home Builc ghand@westernhomesllc.com  
Home Builc ddressman@cincybuilders.com  
Hostetler B susannakstrauss@aol.com  
IAF secretary1@iaf.nu  
Image Line imageline@sbcglobal.net  
Innovative bvedaie@iegi.com  
Insurance S csfeedback@iso.com  
Internation hbrewer@iasonline.org  
Internation smccracken@iasonline.org  
Internation rcoiner@iasonline.org  
Internation pmccullen@iasonline.org  
Internation msabaratham@iasonline.org  
Internation rnathan@iccsafe.org  
Internation cramani@iccsafe.org  
Internation pwilliams@ibew540.org  
Internation croblee@iccsafe.org  
Internation smoinian@iccsafe.org  
Internation gnichols@iccsafe.org  
Intertek michael.beaton@intertek.com  
Johnson, Ja jjohnson@qai.org  
Mechanica mcaco@mcaco.org  
Menard's S sdnymcam@menards.com  
Midwest Er adwoodworth@aol.com  
Motter & N dpatterson@mottermeadows.com  
Motter & N rmeadows@mottermeadows.com  
Muse, Rog r muse@anab-aiclass.org  
National Cc jameslinkearchitect@hotmail.com  
National Fi stds\_admin@nfpa.org  
National Fi info@nfsa.org  
National Hi lynch80national@gmail.com  
National In nibs@nibs.org  
National In kandy.hauk@nist.gov  
No-Burn (L lindsay@noburn.com  
NVR/Ryan jhedden@nvrinc.com  
Ohio Assoc info@acecoho.org  
Ohio Depai Fsherman@age.state.oh.us  
Ohio Depai Stephen.Darling@com.ohio.gov  
Ohio Depai Kathryn.kimmet@odh.ohio.gov

Ohio Depar mahjabeen.qadir@odh.ohio.gov  
Ohio Depar rebecca.fugitt@odh.ohio.gov  
Ohio Fire C info@ohiofirechiefs.com  
Ohio Home build@ohiohba.com  
Ohio Manu info@welcomehomeohio.com  
Ohio Petro info@opmca.org  
Ohio Societ ospe@ohioengineer.com  
Ohio State osbtc@ohiostatebtc.org  
Ohio State kgrier@ohiosilc.org  
Ohio Town cochran@ohiotownships.org  
Pacific Nor inquiry@pnnl.gov  
Paino, Pete peter-paino@neo.rr.com  
Preview Gr srice@previewgroup.com  
Pulte Home keith.filipkowski@pulte.com  
Redinger, L daner@resourceinternational.com  
Seaman, M mseaman@epssecurity.com  
Shambaugh rstewart@shambaugh.com  
Schaefer A: mpc@ssastructural.com  
South Amh clerk@neohio.twcbc.com  
Sperber, Er esperber@altwitzig.com  
Steer, Susa susan.steer@com.state.oh.us  
Strauss Cor randykstrauss@aol.com  
Underwrite john.k.taecker@ul.com  
Unibilt (Do scholz.doug@unibilt.com  
Unibilt cook.dave@unibilt.com  
US Departr askdoj@usdoj.gov  
Vector Seci sjmiller@vectorsecurity.com  
bob.clark@apawood.org  
BQuackenbush@emht.com  
brown@nfsa.org  
Donald.Cooper@com.state.oh.us  
dscott@lnlattorneys.com  
dwilliamson@com.state.oh.us  
jennifer.miller@sierraclub.org  
jgaver@co.champaign.oh.us  
jpounds@ohiochemistry.org  
kklaus@ohiohba.com  
LAdam@masonoh.org  
lflowers@com.state.oh.us  
mjhenderson@nuwool.com  
mpatel@ohiohba.com  
ojgp@roadrunner.com  
Renee.Snodgrass@westcarrollton.org  
reshenbaugh@ohiohba.com  
ronb@zmchd.org  
rovloc93@aol.com  
sfrancis@awc.org

TMcClintock@nfpa.org  
tspayth@co.madison.oh.us  
twanner@mapic.org  
vsquillace@ohiohba.com

#### Dean Jagger's List

Black lawrence\_r\_black@hsb.com  
Burkhard piperdavidl@aol.com  
Butler tbutler@niulpe.org  
Combeq combeq@gmail.com  
Davidson WDAVIDSO@travelers.com  
Dreyer tdreyer@whgardiner.com  
Furst tfurst@brunercorp.com  
Geraghty greg.geraghty@zurichna.com  
Jim jim@delval.com  
Kelly gkelly@keldenequipment.com  
Klein jklein@ohiochemistry.org  
KMA joe@kmahvac.com  
Linn LLINN@travelers.com  
Malkin dennis.malkin@robertsmech.com  
McAdams amcadams@parkertrotec.com  
Mengon mark.mengon@fmglobal.com  
Miller Michael\_Miller@CINFIN.com  
Moore Brian\_Moore@hsb.com  
Nickerson r.nickerson@econcontrol.com  
Pierce rpierce@hurstboiler.com  
Pounds jpounds@ohiochemistry.org  
Roberts groberts@robertsmech.com  
Safarz jsafarz@combustionsafety.com  
Schmidt tes@stoermer-anderson.com  
Smith rick.smith@ate-inc.com  
Smithhugh info@smithhughes.com  
Stoermer KAW@stoermer-anderson.com  
Walters walters@boilerworks.com  
Wilson steamworksllc@att.net  
Plumbing-† rocco@phccohio.org  
American S infocentral@asme.org  
Arise Boiler jerry.sturch@ariseinc.com  
Buckeye As ash@basa-ohio.org  
Chubb and vsordillo@chubb.com  
Cincinnati l wayne\_pinney@cinfin.com  
Eagle Mecl eaglemechanical@neo.rr.com  
Factory Ml phillip.cole@fmglobal.com  
Hartford St Brian\_Moore@hsb.com  
Informatio Bryan.Forrest@ihs.com  
National Bc ddouin@nationalboard.org  
National Bc fbrown@nationalboard.org  
National Bc information@nationalboard.org

National In tbutler@niulpe.org  
Ohio Hospi rickf@ohanet.org  
Ohio Manu oma@ohiomfg.com  
OneCIS Am ed.whittle@onecis.com  
Toledo Hea info@thacca.org  
Travelers R kent@travelers.com  
XL Insuranc gary.cox@bpcllca.com  
Zurich Serv ken.leavelle@zurichna.com

**Stakeholder Meeting**  
**Proposed Ohio Building, Mechanical & Plumbing Code Rules**  
**(Update NFPA 70 to 2014 edition)**  
**March 14, 2014**  
**1:00 PM – 3:00 PM**

The Board is conducting this stakeholder meeting as part of the Common Sense Initiative (CSI) Business Regulation Impact process to provide information on proposed rules and respond to questions from interested persons prior to formal rule-filing. After review of all comments submitted in writing and at today's meeting, the Board will incorporate any approved changes as a result of the comments and document the reasons for the changes in a Business Regulatory Impact Analysis. The revised rules and the Business Regulatory Impact Analysis will then be filed with the CSI Office for review and recommendation and resent to stakeholders via e-notification. After receipt of the CSI Office recommendations, the Board will determine whether to move forward with formal rule-filing. If the Board does determine to formally file these rules, as revised, the Board will also conduct a regular public hearing prior to their adoption as required by Revised Code Chapter 119.

**Proposed Ohio Building Code, Ohio Mechanical Code & Ohio Plumbing Code Rules**

The Board proposes to amend Ohio Administrative Code as follows: **4101:1-35-01** to update the NFPA 70 standard in the Ohio Building Code to the 2014 edition for non-residential buildings as a result of approved Petition #13-004; **4101:2-15-01** to update the NFPA 70 standard in the Ohio Mechanical Code to the 2014 edition for non-residential buildings as a result of approved Petition #13-004; and **4101:3-13-01** to update the NFPA 70 standard in the Ohio Plumbing Code to the 2014 edition for non-residential buildings as a result of approved Petition #13-004.



**Department  
of Commerce**

Division of Industrial Compliance  
John R. Kasich, Governor  
Andre T. Porter, Director

**List of BBS Proposed OBC, OMC, & OPC Rule Changes – March 2014**

The following draft changes to the Ohio Building Code, Ohio Mechanical Code, and Ohio Plumbing Code rules are proposed as a result of Petition 13-04 submitted by the Ohio Electrical Code Coalition and approved by the Board of Building Standards.

<b>OHIO BUILDING CODE RULES – PROPOSED CHANGES</b>	
<b>Rule Number</b>	<b>Description of Proposed Change</b>
4101:1-35-01	*Added the word “Residential” to the title of ASHRAE 90.1 (editorial correction)
	For non-residential buildings, to update the NFPA 70 standard from the 2011 edition to the 2014 edition.
	*Added “Including TIA 10-4 and TIA 10-5” to NFPA 72 to clarify the intent of the low frequency alarm requirements for emergency alarm systems and smoke alarms
<b>OHIO MECHANICAL CODE RULES – PROPOSED CHANGES</b>	
<b>Rule Number</b>	<b>Description of Proposed Change</b>
4101:2-15-01	*Added “Including TIA 10-4 and TIA 10-5” to NFPA 72 to clarify the intent of the low frequency alarm requirements for emergency alarm systems and smoke alarms
	For non-residential buildings, to update the NFPA 70 standard from the 2011 edition to the 2014 edition.
<b>OHIO PLUMBING CODE RULES – PROPOSED CHANGES</b>	
<b>Rule Number</b>	<b>Description of Proposed Change</b>
4101:3-13-01	For non-residential buildings, to update the NFPA 70 standard from the 2011 edition to the 2014 edition.

\* Added after the stakeholder meeting notification was sent out and after the rules were posted to the BBS website.



Tentative Interim Amendment

# NFPA 72

## National Fire Alarm and Signaling Code

### 2010 Edition

**Reference:** 24.4.1

**TIA 10-4**

*(SC 10-3-5/TIA Log #973)*

Pursuant to Section 5 of the NFPA Regulations Governing Committee Projects, the National Fire Protection Association has issued the following Tentative Interim Amendment to NFPA 72, *National Fire Alarm and Signaling Code*, 2010 edition. The TIA was processed by the Technical Correlating Committee on Signaling Systems for the Protection of Life and Property and the Technical Committee on Emergency Communication Systems, and was issued by the Standards Council on March 3, 2010, with an effective date of March 23, 2010.

A Tentative Interim Amendment is tentative because it has not been processed through the entire standards-making procedures. It is interim because it is effective only between editions of the standard. A TIA automatically becomes a proposal of the proponent for the next edition of the standard; as such, it then is subject to all of the procedures of the standards-making process.

*1. Revise 24.4.1.4 Tones, to read as follows:*

**24.4.1.4 Tones.** The tone preceding any message shall comply with 24.4.1.4.1 through 24.4.1.4.4.

**24.4.1.4.1** The tone preceding any message shall be permitted to be part of the voice message or to be transmitted automatically from a separate tone generator.

**24.4.1.4.2\*** Except as specified in 24.4.1.4.3, in occupancies where sleeping accommodations are provided and the voice message is intended to communicate information to those who could be asleep, a low-frequency tone that complies with the following shall be used:

- (1) The tone shall be a square wave or provide equivalent awakening ability
- (2) The square wave shall have a fundamental frequency of 520 Hz  $\pm$  10 percent.

**A.24.4.1.4.2** The intent of this low frequency tone is to accommodate those with mild to severe hearing loss. See also 18.4.5, A.18.4.5 and A.29.3.8.2. The effective date listed in Chapter 18 for using a low frequency signal has not been allowed in this section (24.4.1.4) because voice systems are easily adapted to comply, whereas the requirements of 18.4.5 also apply to stand-alone tone signaling appliances.

**24.4.1.4.3\*** In areas where sleeping accommodation are provided, but the voice communication system is used to communicate to occupants who are awake, the low frequency tone shall not be required.

**A.24.4.1.4.3** Sleeping accommodations are provided in occupancies such as healthcare, detention and correction, and other occupancies where it would not be necessary to utilize a low frequency tone that awakens those sleeping. For example, in a hospital, the voice message is used to notify staff members who are already awake. The staff will then respond to the appropriate location in the hospital to carry out their duties which may include awakening and relocating patients who may be in danger. In addition, fire drills are required to be conducted on a regular basis and providing a low frequency tone could unnecessarily awaken patients, which would be detrimental to their care.

**24.4.1.4.4** Audible signal tones for alert or evacuation shall meet the audibility requirements of either 18.4.3 (Public Mode Audible Requirements), 18.4.4 (Private Mode Audible Requirements), 18.4.5.1 and 18.4.5.2 (Sleeping Area Requirements), or 18.4.6 (Narrow Band Tone Signaling for Exceeding Masked Thresholds), as applicable.

**Issue Date:** March 3, 2010

**Effective Date:** March 23, 2010

(Note: For further information on NFPA Codes and Standards, please see [www.nfpa.org/codelist](http://www.nfpa.org/codelist))

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NATIONAL FIRE PROTECTION ASSOCIATION



Tentative Interim Amendment

**NFPA 72<sup>®</sup>**  
**National Fire Alarm and Signaling Code**  
**2010 Edition**

**Reference:** 29.3.6  
**TIA 10-5**  
(SC 12-8-34/TIA Log #1048)

Pursuant to Section 5 of the NFPA Regulations Governing Committee Projects, the National Fire Protection Association has issued the following Tentative Interim Amendment to NFPA 72, *National Fire Alarm and Signaling Code*, 2010 edition. The TIA was processed by the Technical Committee on Single- and Multiple-Station Alarms and Household Fire Alarm Systems and the Correlating Committee on Signaling Systems for the Protection of Life and Property, and was issued by the Standards Council on August 9, 2012, with an effective date of August 29, 2012.

A Tentative Interim Amendment is tentative because it has not been processed through the entire standards-making procedures. It is interim because it is effective only between editions of the standard. A TIA automatically becomes a proposal of the proponent for the next edition of the standard; as such, it then is subject to all of the procedures of the standards-making process.

1. *Revise 29.3.6 as follows:*

**29.3.6** All audible fire alarm signals installed shall meet the performance requirements of 18.4.3, 18.4.5.1, 18.4.5.2, and 29.3.8.

**Issue Date:** August 9, 2012

**Effective Date:** August 29, 2012

(Note: For further information on NFPA Codes and Standards, please see [www.nfpa.org/codelist](http://www.nfpa.org/codelist))

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NATIONAL FIRE PROTECTION ASSOCIATION

March 14, 2014 Stakeholder Meeting  
2014 NEC

**Attendees:**

Nathaniel Jonhenry, Squire Sanders  
Michael Boso, OBOA  
Bill Felger, Grove City Building Department  
Dennis Coffey, Grove City Building Department  
DeWayne Jenkins, SW IAEI & City of Kettering  
Don Iverson, NEMA  
Tom Moore, Ohio Chapter IAEI  
Steve Lipster, Ohio Electrical Training Directors Association  
Richard Lecher, IBI  
Thomas Domitrovich, Eaton Corp  
Nicholas Montan, Tuscarawas Co  
Mike Chinn, City of Grove City

General Comments:

Staff stated that rules were modified since they were sent to stakeholders to add TIA 10-4 for NFPA 72.

Tom Moore, Ohio Chapter IAEI, summarized major changes in the 2014 NEC.

Don Iverson, NEMA, stated support for adoption and submitted written comments.

DeWayne Jenkins, SW IAEI, stated support for adoption.

ThomasDomitrovich, Eaton Corp, stated support for adoption.

DeWayne Jenkins asked about the TIA.



**KYLE PITSOR**

Vice President, Government Relations

March 14, 2013

Ms. Regina Hanshaw  
Executive Secretary  
Ohio Board of Building Standards  
6606 Tussing Road  
Reynoldsburg, OH 43068

**Re: NEMA Supports Adoption of 2014 Edition of the National Electrical Code**

Dear Ms. Hanshaw:

On behalf of the National Electrical Manufacturers Association (NEMA), I am writing to express support to update the 2011 edition of NFPA 70 (National Electrical Code®) to the 2014 edition of NFPA 70. For many years, Ohio has championed the standard of excellence by being one of the first states in the nation to adopt the newest edition of the National Electrical Code® – putting the safety of its citizens and economic well-being of its industry first.

NEMA is the trade association of choice for the electrical equipment and medical imaging manufacturing industry. The approximately 400 member companies manufacture products used in the generation, transmission and distribution, control, and end-use of electricity. NEMA member companies have a significant presence in the state of Ohio representing 47 companies with well over 100 manufacturing and engineering facilities that support the state's economy. Member companies in Ohio collectively employ over 15,000 state residents.

NEMA has long supported timely adoption of the National Electrical Code® (NEC) by state and local jurisdictions. We maintain that prompt adoption of the most current edition of the NEC is the best way to ensure a uniform and up-to-date standard of safety for all occupants in the built environment. Current codes mean safer and more economically prosperous communities.

The NEC focuses on the proper installation of electrical systems and equipment to protect people and property from hazards arising from the use of electricity in the built environment. The code also allows for the safe use of new technologies including electric vehicle charging equipment and distributed generation such as solar photovoltaic panels.

Through adoption of the 2014 NEC, businesses today will be able to take advantage of lower infrastructure start-up and operational costs through new and improved technology. For instance, Article 646 enables advancements for modular data center systems which are becoming prominent in the demand for business systems to meet a 100% up-time for business continuity. Article 393, which includes requirements for low-voltage suspended ceiling power distribution

Ms. Regina Hanshaw  
March 14, 2014  
Page 2

systems, provides an easier and less expensive method of delivering power for general lighting and power loads, and task lighting in an office area.

Once again, NEMA urges the OBBS to maintain this tradition of excellence by adopting the 2014 edition of the National Electrical Code®. If you have any questions, please contact Don Iverson ([don.iverson@nema.org](mailto:don.iverson@nema.org)) or 517-628-2505.

Sincerely,

A handwritten signature in cursive script that reads "Kyle Pitsor".

Kyle Pitsor  
Vice President, Government Relations

Ohio Board of Building Standards  
6606 Tussing Rd.  
Reynoldsburg, Ohio 43068

Regina Henshaw, Executive Director and esteemed members of the Board,

I support the changes to the Ohio Building Code, Ohio Mechanical Code and Ohio Plumbing Code rules as proposed by Petition 13-04 submitted by the Ohio Electrical Code Coalition. Using and referencing the most current codes and standards is necessary for a progressive state and its business community to keep pace with all of the changes in technology. Advances in technology require the use of the most current electrical code for proper installation and safety requirements. This would include the installation of solar photovoltaic (PV), wind generator electric systems, alternative source of power (back-up generators), emergency systems, electric vehicle charging (EV), and any building designated as a critical operations areas (COPS/DCOA).

The most current electrical code addresses newer technologies that may be utilized in expanding or improving a business such as powered ceiling grid systems (New Article 393), energy control and management systems (New Article 750). It determines how a community makes needed changes to its infrastructure. Interconnected Electric Power Sources (Revised Article 705), Emergency and Standby Systems (Revised Articles 700-702) and Fire Resistant Cable Systems (New Article 728) have been added to help communities accomplish that goal and make buildings safer and more reliable in the event of emergencies or disasters.

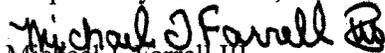
Code development includes stakeholders from all facets of society and National Electrical Code Panels are made up of individuals who represent all interests of the safety, electrical and construction industries. Their collected expertise is utilized in adoption of the most current code.

There is a recent trend in the adoption process to skip a cycle in code standards. This only delays implementation of needed safety and installation requirements. When eventually adopted a large number of code changes spanning multiple code cycles and years of time then come into effect and can cause greater delays and issues in the field. Timely adoption will greatly reduce such problems.

Industry training is based on the current codes. This includes apprentice, journeyman and contractors. Other trades reference the electrical code for their installations which continually change due to the use of new technology in systems and equipment.

The purpose of the National Electric Code is the practical safeguarding of persons and property from hazards arising from the use of electricity. Advances in technology require proper installation and safety requirements to be followed for the protection of the public. We need to do all that we can to accomplish that purpose.

Respectfully submitted,

  
Michael J. Farrell III

Building/Electrical Inspector  
Lucas County Building Regulation  
1115 McCord Rd.  
Holland, OH 43528

Member of IAEI, IBEW, ICC, NFPA, OBOA

## Hanshaw, Regina

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**From:** Bob Kohli <orkohli@tds.net>  
**Sent:** Wednesday, March 12, 2014 3:32 PM  
**To:** BBS, BBSOfficAsst3  
**Subject:** 2014 NEC

to who it may concern , the amount of work that is put into each code cycle & the improvements that are intended to help the public at large ,should be put in to service as soon as they could be , Back when gfci came in the NEC every one thought that they cost to much & were not proven , today I carry two portable units in my tools & since 1962 got my first license things sure change so having a OCILB # 14491 & being a IAEI member since 1989 , I try to keep up on the Electrical industry so please concenter having the 2014 NEC be made law ASAP , please . thank you Robert A Kohli at orkohli@tds.net

## Hanshaw, Regina

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**From:** Lane, Michael  
**Sent:** Tuesday, February 11, 2014 2:25 PM  
**To:** Hanshaw, Regina  
**Subject:** FW: Board of Building Standards Proposed Rules/Stakeholder Meeting Notification

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**From:** Greg Kessinger SET CFPS [mailto:firealarm\_911@hotmail.com]  
**Sent:** Tuesday, February 11, 2014 2:24 PM  
**To:** Lane, Michael  
**Subject:** RE: Board of Building Standards Proposed Rules/Stakeholder Meeting Notification

I will not be able to attend the meeting.

Was there a report by the Ohio Electrical Code Coalition accompanying this recommendation for such rapid adoption? Generally, I don't believe it is prudent to adopt any standard the year it is issued since many mistakes and compliance issues don't arise until a new standard has been widely distributed to the public. Sometimes it is best to skip an edition altogether, simply because the costs of changing the rules/ books outweigh any so-called improvements the new editions purportedly contain.

Thanks for including me in your e-mails.  
Greg Kessinger

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**From:** Michael.Lane@com.state.oh.us  
**To:** Michael.Lane@com.state.oh.us  
**CC:** Regina.Hanshaw@com.state.oh.us; Steven.Regoli@com.state.oh.us; Debbie.Ohler@com.state.oh.us; Robert.Johnson@com.state.oh.us  
**Subject:** Board of Building Standards Proposed Rules/Stakeholder Meeting Notification  
**Date:** Tue, 11 Feb 2014 16:42:33 +0000

Board of Building Standards Stakeholder:

You are receiving this message pursuant to the requirements of Executive Order 2011-01K and Senate Bill 2 of the 129th General Assembly, which require state agencies, including the Ohio Board of Building Standards (Board), to draft rules in collaboration with stakeholders, assess and justify any adverse impact on the business community, and provide opportunity for the affected public to provide input on the rules.

### Stakeholder Meeting

The Board will conduct a Stakeholder Meeting to hear comments and respond to questions on the proposed amendments summarized below on March 14, 2014 from 10:00 AM to 3:00 PM in Training Room 1, 6606 Tussing Road, Reynoldsburg, Ohio 43068. All interested stakeholders are invited to attend. The Agenda for the Meeting is as follows:

Proposed Boiler Rules

Proposed Ohio Building Code Rule (Update NFPA 70 to 2014 edition)