



Board of Building Standards

CONFERENCE MEETING & CERTIFICATION OPEN FORUM AGENDA

DATE: MARCH 25, 2022
TIME: 10:00 AM
LOCATION: TRAINING RM 1, 6606 TUSSING RD, REYNOLDSBURG, OHIO 43068 &
VIDEOCONFERENCE
[Videoconference Link](#)

Call to Order

Roll Call

Certification Open Forum

[PC-1](#) Written Stakeholder Comments

Consideration of Minutes

[MIN-1](#) February 25, 2022 Meeting Minutes

Certification Hearing

[CH-1](#) Certification Hearing

Committee Reports

[CR-1](#) Code Committee Report
[CR-2](#) Certification Committee Report
[CR-3](#) Education Committee Report

Building Department Support & Oversight

[RE-1](#) March Building Department Report

Ratification of Board Recognized Accreditation Bodies, Conformity Assessment Bodies & Industry Trade Association Certification Programs

Public Comments

Old Business

New Business

[NB-1](#) Petition 22-01 - 2020 NEC RCO

Compensate Board Members for Work Performed at their Regular Rate

Future Meeting Schedule

May 13, 2022	October 21, 2022
June 24, 2022	November 18, 2022
August 26, 2022	December 16, 2022
September 23, 2022	

Motion to Adjourn

File Attachments for Item:

PC-1 Written Stakeholder Comments

To Members of the Board:

Thank you for giving me the opportunity to express my opinion regarding the certification requirements and procedures.

I believe it was a mistake to remove residential plumbing and electrical certifications and replace them with 7 years and 4 years respectively for required experiences in only commercial work. People with 7 years of commercial plumbing and 4 years of commercial electrical experiences will choose to stay in the trade due to much higher incomes. In these past three years, I have witnessed three electrical inspectors going back to the trades for this reason.

Since 2014 I have worked as both BI and RBI in two different building departments in Northeast Ohio.

Prior to 2014, I worked in the building and construction industry for over 10 years (but not as a superintendent/general contractor). In 2021 I passed the three CBO exams from ICC, but I still do not meet any of the 3 experience requirements from BBS for Building Official in Ohio!

RBO positions are rare because the majority of municipalities can't afford to hire a CBO and an RBO. Often the CBO acts as RBO as well.

I believe the expectations for experience requirements for all the certifications make it extremely difficult to become an inspector, and as in my case, simply impossible to pursue any career advancement. It can be discouraging trying to become an inspector.

Furthermore, an individual with the high level of experience required from BBS simply will not accept a lower income, in addition to the challenges of taking the exams.

I strongly believe we need qualified and experienced personnel, but the present work experience requirements from BBS are unrealistic and can be discouraging and unmotivating.

I again want to thank the Board for allowing me to share my thoughts. I hope some changes will be implemented soon.

Regards,

Eric Elmi

Hanshaw, Regina

From: Ken Rivera <ken.rivera@hamilton-oh.gov>
Sent: Tuesday, March 8, 2022 12:52 PM
To: BBS, BBSOfficAsst3
Subject: Fwd: BBS Certification Open Forum - March 25, 2022
Attachments: Certification Open Forum Notification.pdf

Good afternoon,

Unfortunately, I will not be able to attend the Open Forum on BBS Certification scheduled for March 25th, so I would like to submit the two written comments below for consideration.

- An architect's or engineer's license should no longer be required to perform plan reviews. Under the current requirements, even someone who obtains all five elective plan review certifications still has to be associated with someone who has a license. I participated in a survey of various building departments a few years ago that was taken from almost all 50 states, and I was informed that the results showed that only Ohio and one other state have this particular requirement for plan review. This puts our state at a competitive disadvantage. When I inquired about the reasoning behind this at the Code Academy, I was told that the Ohio Board of Engineering decided that plan review is a function of design and therefore requires a license. Plan review is clearly not the same as design, and I don't believe that the Engineering Board has authority over the BBS. Not too long ago, a Building Official's certification also allowed an individual to perform full plan reviews, and that recognition should be reinstated. That, along with eliminating the license requirement will significantly help our staffing needs when it comes to plan review while not diminishing the quality of the reviews being performed.
- It will help to broaden the range of construction experience that is recognized as qualifying background experience for all certification types, especially inspector certifications, and no more than 3 years of experience should be required for any certification.

I greatly appreciate the Board taking the time to have this discussion. I agree that this is becoming an increasingly desperate need that we all have a responsibility to address.

Sincerely,
Ken Rivera, CBO
City of Hamilton

----- Forwarded message -----

From: Pamella.Butts@com.state.oh.us <Pamella.Butts@com.state.oh.us>
Date: Fri, Mar 4, 2022 at 4:04 PM
Subject: BBS Certification Open Forum - March 25, 2022
To: Pamella.Butts@com.state.oh.us <Pamella.Butts@com.state.oh.us>

CERTIFICATION OPEN FORUM – MARCH 25, 2022 @ 10 AM

Board of Building Standards Stakeholder:



Southwest Division

Ohio Chapter, Western Section, I.A.E.I.

International Association of Electrical Inspectors
<http://www.swohioiaei.org>

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March 10, 2022

Ohio Board of Building Standards
Regina Hanshaw, Executive Secretary
6606 Tussing Road, P. O. Box 4009
Reynoldsburg, Ohio 43068

Ms. Hanshaw and Board Building Standards Members

The SW Division Ohio Chapter IAEI and the Ohio Chapter IAEI want to work together with OBOA to propose a solution to the inspector shortage in Ohio. We believe a good solution is “right in front of us” and with cooperation between the IAEI and OBOA and the OBBS a path forward can be established.

Our first concern, considering that buildings are significantly more technical and complicated than ever before, is to emphasize that **now is not the time to make established qualifying criteria less than it is – for any discipline.** Testing should not be made “easier” to obtain more inspectors; to do that would severely compromise public safety.

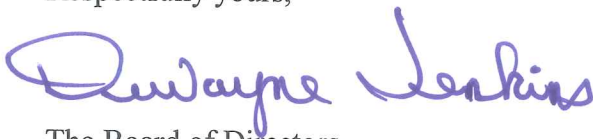
We believe education, cooperation, and mutual respect are the keys to a solution. We propose the following:

- Both entities, IAEI and OBOA, should provide educational opportunities to each other.
- The IAEI should welcome “building inspector trainees of electrical systems” to all of their training programs at no charge and that OBOA should likewise help train certified electrical inspectors to become building inspectors. ORC 3783.03 (excerpt highlighted below) provides a 4-year path for building inspectors to train to become electrical inspectors, a similar program should be made available to ESIs to become building inspectors.
- We believe that if IAEI and OBOA help each other’s members in this way we will soon have a significant increase in available inspectors.

- Local jurisdictions should review the prevailing wage rates in their locale and offer, at the minimum, equal wage packages to inspector candidates. Qualified personnel are needed for technical inspections, and it is no real incentive to offer them less than they are making in the field.

The OBBS should consider offering interim certifications to qualified building inspector trainees and electrical inspector trainees for 4 years (for programs indicated above) as long as the candidates first attend the Code Academy.

Respectfully yours,



The Board of Directors
Southwest Division
Ohio Chapter
IAEI

CC.

Robert Eifert, OBOA President
Karl Frederick, Ohio Chapter IAEI President

Hanshaw, Regina

From: Jacobs, Larry <Larry.Jacobs@daytonohio.gov>
Sent: Monday, March 14, 2022 9:24 AM
To: BBS, BBSOfficAsst3
Cc: Butts, Pamela; Hanshaw, Regina; Eifert, Robert
Subject: Certification Open Forum Response

I am in receipt of the email requesting input on ways to address the certified building departments ability to recruit qualified personnel and to provide code enforcement and administration services to their communities. The email further states about making changes to the certification and code enforcement rules, promotion of shared services, recognition of 3rd party and/or expanded special inspection programs and best practices from other jurisdictions. None of these items address's two additional, very important, causes for persons not wanting a career in public service especially in the building code enforcement sector of public service but are items the BBS has little or no control over. The first is unequal pay when compared to the private sector and the second is the penalty for code enforcement personnel, as well as all public servants with private sector experience, are subject to at the end of their careers due to the requirement for experience necessary for being hired but gained in the private sector to do code enforcement.

The first item many of you are well aware of. There are a few jurisdictions where the pay range with civil service benefits is approximately or close to the private sector but most jurisdictions cannot pay their personnel what they could make in the private sector. A building inspector and especially the ESI's requirements including work experience and certification testing makes them eligible in the private sector to be job superintendents, special inspectors or construction administrators. These jobs can range from the high tens of thousands to six figure yearly incomes especially with the bigger construction companies and developers. For plans examiners who are required to start code enforcement as a design professional (or as previously allowed with private sector experience – see item below for issue with private sector experience) indicating an already significant educational investment in their career, becoming registered, passing the certification process with the required experience would make most of them an associate or partner in a architectural or engineering firm. At this time with the private sector benefits being equal or better than the public service sector the difference in pay becomes a deciding factor. I can only imagine what a building inspector must think when working with a job superintendent with the same experience who is making tens of thousands of more pay per year or a plans examiner resolving code issues with a partner at an architectural or engineering firm who is the same age and has the same experience knowing he is making twice as much. The BBS does not have the authority or even the ability to set minimum pay standards throughout the State of Ohio to keep or attract qualified persons to do code enforcement but this would provide a level playing field to the private sector advantage.

The second issue is becoming more apparent as noted by 80 percent of the building officials leaving the service in the next 5 to 15 years. It is the Social Security windfall penalty. The BBS requires for almost positions an amount of experience. This experience is gained through employment in the private sector under Social Security Retirement. Then after working diligently protecting the safety of citizens we come to the end of our careers and our social security benefit we contributed to, that would have been kept by continuing work in the private sector, is taken away from us with no way to make it up other than having to now work part time in our golden years. I have complained bitterly to both those already in public service and, most importantly, to those who would consider a career in public service. No one, when I was considering becoming a plan examiner, even mentioned that when my career was at an end I would have to take a \$400 per month reduction in my social security versus my associates in the private sector retaining all their social security. As I come to the end of my career I am faced with the reduction being equal to a car payment or the insurance and taxes on my house or, maybe in this period of high inflation prior to my retirement, the difference between heating my home or paying for prescriptions. How can someone recruiting building department personnel say with a straight face a career in public service is rewarding knowing the severe penalty we'll pay at the end of our public service? I do strongly believe code enforcement should have experience as part of the job requirement because the complexity of construction is not fully learned in a classroom. Again this is an issue beyond the BBS control but needs to

be addressed in order to attract qualified building personnel. This may be an issue where state officials throughout the United States lobby for change to the Social Security system.

As a conclusion, to the item of using qualified and BBS approved third parties is not an issue. Being certified under the BBS, those building officials are at the standard required to protect the citizens, appear to be well compensated and will keep their social security as well as have opportunities, in some cases, for employer matching retirement funds, ownership in the business and other financial vehicles. What should not be allowed is to have private sector companies allowed to “oversee” noncertified persons doing plan review or inspections. Too often this method in other industries has lead to poor services. The biggest concern, of course, is trying to address the lack of qualified code enforcement personnel by lowering the standards causing a drop in the level of protection the citizens have come to expect and still not attract code enforcement personnel. Thank you for allowing me the privilege of contributing comments to the Certification Open Forum.

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Dear Board of Building Standards Board Members

The Building Officials Conference of Northeast Ohio would like to formally submit comments for the March 25, 2022 board meeting on the topic of input on how the Board can respond to the staffing needs of certified building departments while ensuring uniform application of the codes by qualified personnel and meeting the Board's statutory mandates.

BOCONEO has established an Ad Hoc committee for this topic specifically. Members include James Decker, Michael Gero, Paul Kowalczyk, Russell Rodic, and Daniel Spada. This committee has met with Northeast Ohio Mayors and City Managers Association over the past year to discuss this topic and brainstorm ideas to alleviate some of the stresses Mayors, Managers, and departments are burdened with due to the shortage of available candidates.

BOCONEO would like to recommend:

Training program/ Education: One of our biggest hurdles is the know-how on how to become an inspector, building official, or plans examiner. The acceptance of a program through Tech Schools, Colleges, Universities, or through the State, much like there are Police Academies and Fire Academies, would be a recognized means and path for individuals to get into the field. The acceptance of recognizing a program like this as a method of obtaining experience and education, would be an avenue that would allow individuals right out of high school and even later in life to go to, to learn about the codes and inspection process. There are currently Tech Schools that offer certificates in how to become an electrician, plumber, HVAC installer, general contractors, and colleges that offer degrees in construction technology. These students learn about the codes and usually physically work and install their trade work. The knowledge gained in these settings is on par with the knowledge an inspector needs. BOCONEO feels that these existing training classes and degrees may only need to be tweaked to be something that the Board would recognize as an acceptable path. The recognition of these Tech certificates should also be accepted as years of experience as required in the matrix for the Board.

In addition to accepting the Tech Certifications, the Matrix experience for trainees needs to be evaluated. We recognize the willingness of the Board over the past couple of years to modify this and allow for personalized training, and this has helped in some instances, but a more uniform training program should be established for individuals to be able to acquire full certification or

Building Officials Conference of Northeast Ohio

other certifications. The idea of an apprenticeship or shadowing program is brought up all the time by outside individuals who show interest in our field but do not have the required work experience. Even a hybrid version would be beneficial to attracting an individual who may not have construction experience but has an interest and is trainable.

Certifications: The reinstatement of the Residential Plumbing Certification and the creation of a Residential Electrical Safety Inspector Certification is a must. There are many departments that would benefit from being able to hire an individual who would be able to obtain these certifications. In most departments the majority of the work load is residential work. The reinstatement and creation of these certifications would allow individuals with less commercial work experience to get into the field and allow departments to utilize their experience.

Retirees: Although this topic is not an end all solution for our industries problem, it is none the less a factor. Some of the forfeitures, health insurance, and health insurance reimbursements prevent and deter many retiring inspectors and building officials who still have many years of work left in them from coming back to the job especially at a part time status. Re-employment to any OPERS covered position, full or part time, after retiring requires a two-month separation or the pension payment would be forfeited for those two months. Re-employment as an independent contractor to an OPERS employer other than the one you retired from requires a two-month separation or the pension payment would be forfeited for those two months. Re-employment as an independent contractor to the employer you retired from forfeits your pension and health care benefits. Re-employment with a non-OPERS employer who contracts with an OPERS employer does not affect the pension payment (i.e., Safebuilt, temp agency). Other factors that change through OPERS sometimes force inspectors and building officials to retire before they are ready to because of a change that will benefit them to retire before a change goes into effect, causing them to leave the industry prematurely.

BOCONEO hopes the Board will look into and consider these ideas and factors that we believe would be beneficial to our industry to alleviate some of the staffing shortages and interest into this fulfilling career path. Something has to be done as the majority of individuals that are employed currently are within retirement range. We realize it is a topic that needs much consideration to any change as the effect of a decision has a direct impact on the health safety and welfare of the public.

Thank You For Considering Our Input

BOCONEO Ad Hoc Committee

Hanshaw, Regina

From: Spruill, James C. <JCSpruill@Columbus.gov>
Sent: Monday, March 21, 2022 10:45 AM
To: BBS, BBSOfficAsst3
Subject: CERTIFICATION OPEN FORUM – MARCH 25, 2022 @ 10 AM

Good Morning;

We had several instances where an individual could not be hired because their interim certificate had expired prior to potentially being hired or was going to expire shortly after the potential hiring date. There was also a couple of individuals that had a valid interim during the time we were hiring but did not get hired. By the time we were hiring again the interims were expiring. Is there a way that the interim would not expire or would be in escrow until the person was actually hired by a municipality? Should the interim expire if it does not get used? Obtaining the certifications prior to being hired is a major undertaking and a large monetary investment. That is not something most people are able or willing to accomplish prior to being hired.

Thank you;

Cliff Spruill

Building Inspection Supervisor



DEPARTMENT OF BUILDING
AND ZONING SERVICES

Phone: (614) 645-6371

Fax: (614) 645-8358

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File Attachments for Item:

MIN-1 February 25, 2022 Meeting Minutes

MINUTES
BOARD OF BUILDING STANDARDS
CONFERENCE MEETING & CERTIFICATION HEARING
February 25, 2022

The Board of Building Standards Conference Meeting was called to order at 10:05 a.m., Friday, February 25, 2022 at 6606 Tussing Road, Reynoldsburg, Ohio, Chairman Timothy Galvin presiding.

Ms. Regina Hanshaw, Executive Secretary, called the roll and reported that the following Board members were present:

Julienne Cromwell, Structural Engineer
Joseph F. Denk, Jr., Mechanical Engineer
Timothy P. Galvin, General Contractor, Chair
John Johnson, Construction Materials
Terry McCafferty, Public Member
Christopher Miller, Renewable Energy
Jeff Samuelson, Architect
Bailey Stanbery, Homebuilder
Jeff Tyler, Architect
Greg Warner, Fire Service
Paul Yankie, Energy Conservation

The following members were absent:

Gregory Barney, Industrialized Units
Don Leach, Attorney
John Pavlis, Homebuilder, Vice-Chair

The following staff members were present:

Megan Foley, Certification Program Administrator
Debbie Ohler, Construction Codes Administrator
Jay Richards, Assistant Construction Codes Administrator
Mike Regan, IU Plans Examiner
Robert Johnson, Assistant Construction Codes Administrator
Pam Butts, Office Assistant
Andrew Rowan, Assistant Attorney General

A quorum of the Board was present.

The following visitors were present:

Kris Klaus, OHBA
John Johnson
Mike Regan

CONSIDERATION OF THE MINUTES

Ms. Warner moved and Mr. Miller seconded to approve the minutes of the January 28, 2022 Certification Hearing and Conference Meeting.

Chairman Galvin called for the ayes and nays.

Motion carried unanimously.

CERTIFICATION HEARING

Chairman Galvin opened the hearing to hear testimony on the individuals and building departments appearing on the Final Certification Hearing Agenda in the Board's Meeting Packet at the Hearing tab. Ms. Foley informed the Board that the individuals and departments appear on the hearing agenda have been reviewed by the Certification Committee and determined to meet the requirements of certification.

COMMITTEE REPORTS

CR-1 Code Committee Report

Mr. Denk gave the committee's report included in the Board's Meeting packet at Tab CR-1:

The Code Committee met on February 24, 2022 with the following members present: Mr. Denk, Mr. Johnson, Mr. Miller, Mr. Samuelson, Mr. Stanbery, Mr. Tyler, and Mr. Yankie. Board Chairman, Tim Galvin, was also present.

The committee report is included in the February 25, 2022 Board Meeting Packet at tab CR-1 for the Board's consideration.

Call to Order

The meeting was called to order by Mr. Denk at 1:14 P.M.

Approval of Minutes

Mr. Stanbery made the motion to approve the minutes of the Code Committee meeting held on January 27, 2022. Mr. Miller seconded the motion. The motion passed unanimously.

Petitions

No items for consideration

Recommendations of the Residential Construction Advisory Committee

No items for consideration

Old Business

The committee generally discussed energy code cost impacts, cost-effectiveness methodologies, energy savings, the Board's responsibilities to the citizens of Ohio, DOE determinations, and energy policy. The committee decided to continue gathering information and formulating questions. No decisions were made.

New Business

No items for consideration

Adjourn

Mr. Johnson made the motion to adjourn at 3:17 P.M. Mr. Miller seconded the motion. The motion passed unanimously.

Mr. Denk moved and Mr. Samuelson seconded to approve the recommendations of the committee.

Chairman Galvin called for the ayes and nays.

Motion carried unanimously.

CR-2 Certification Committee Report

Mr. McCafferty gave the committee's report included in the Board's Meeting packet at Tab CR-2:

The Certification Committee met in person on February 24th, 2022, at Training Room 3, 6606 Tussing Road at 10:00 AM, with the following members present: Mr. McCafferty, Mr. Stanbery, Mr. Samuelson, Mr. Tyler, and Mr. Warner. Board Chairman Timothy Galvin was also present. The Committee makes the following recommendations, included in the February 25th, 2022 Board Packet at Tab CR-2, for the Board's consideration.

Also present at the meeting were BBS Staff, Regina Hanshaw and Megan Foley. Guests Craig Gilkison and Bruce Crase attended by teleconference.

Recommend the following applications be approved following a certification hearing effective immediately unless otherwise noted on the certification hearing agenda:

Cert ID:	Name	Certification granted
8773	Arocho, Andres	Plumbing Inspector
8772	Bocks, Renee	Plumbing Inspector
158	Brinley, Timothy	Building Official Building Plans Examiner**
8709	Burns, James	Building Inspector
8774	Caudill, Robert	Residential Building Inspector
8758	Daniel, Bradley	Electrical Safety Inspector*
2780	Duncan, Gayle	Plumbing Inspector Plumbing Plans Examiner
6274	Fritz, Jason	Residential Building Inspector Residential Mechanical Inspector**
8752	Gilkison, Craig	Building Inspector
8767	Gladden, Philip	Electrical Safety Inspector*
6337	Gardon, Robert	Electrical Plans Examiner
5343	Gregg, Cheryl	Building Inspector
8777	Gualtieri, Anthony	Electrical Safety Inspector*
8764	Horn, Paul	Electrical Safety Inspector*
8770	Kelly, Raymond	Plumbing Inspector
8778	McNeely, Michael	Plumbing Inspector
5364	Medancic, Branko	Residential Building Official
8771	Mills, Jeff	Residential Building Inspector
8762	Palmer, Kimberly	Residential Building Inspector Trainee
8766	Rinaldi, John	Building Official
8517	Robinson, Raymon	Building Inspector Trainee
4869	Scott, Steven	Residential Building Official
5369	Spears, Adrian	Building Inspector Mechanical Inspector Residential Building Inspector Residential Mechanical Inspector
	Story, Chad	Fire Protection Inspector**
8768	Traore, Aboubacar	Fire Alarm System Designer
8543	Varady, David	Residential Building Inspector
8763	Warner, Phillip	Fire Protection Inspector
6105	Young, Christopher	Building Inspector Trainee

*Electrical Safety Inspectors must complete examinations prior to issuance of interim certification

** Denotes approval conditioned on receipt of forms or fees or other conditions.

Building Department Certifications, Manufactured Homes Inspection Agency/Inspectors

Greene County Manufactured Homes Program

Committee Recommendation: Administratively approved by staff with Board Chair consent.
Recommend ratification of approval.

Personnel Certification Applications

Recommend the following applications be denied, additional information be requested, or other action as noted:

Allen, Justin - BI

Cert ID: 8776

Current Certifications: None

Committee Recommendation: Recommend request for additional information on commercial experience or BI trainee program. Applicant should also consider FPI, RBI.

Corbin, Patrick - BI

Cert ID: 8769

Current Certifications: None

Committee Recommendation: Recommend request for additional information on individual commercial structural experience.

Gualtieri, Anthony - BI

Cert ID: 8777

Current Certifications: None

Committee Recommendation: Recommend request for additional information on commercial structural experience for BI.

Hamker, Daniel - BI, MI

Cert ID: 5935

Current Certifications: PI, RBI

Committee recommendation: Tabled for staff discussion with applicant and building official to suggest 6 month alternative trainee program.

Rodriguez, Steven - RBI

Cert ID: 5491

Current Certifications: None, previously held RBI

Committee recommendations: Recommend approval pending receipt of remaining fees.

Schmale, Stanley - RBO

Cert ID: 8775

Current Certifications: None

Committee Recommendation: Recommend request for additional information on experience.

Brinley, Timothy BO BPE

Certification ID# 158

Current certs: BI, RBO, ESI

Committee recommendations: Recommend approval pending receipt of remaining fees.

Fritz, Jason - RBI, RMI

Certification ID# 6274

Current certs: ESI

Committee recommendations: Recommend approval pending receipt of remaining fees.

Story, Chad - FPI

Certification ID#

Current certs: none

Committee Recommendation: Recommend approval pending receipt of application and fees.

Old Business

Pending or Imminent Litigation - Case # BBS 2021-003 Settlement Agreement (Patrick Barnes)
Settlement reviewed, recommended for approval.

New Business

None this month

Mr. McCafferty moved and Mr. Stanbery seconded to approve the recommendations of the committee.

Chairman Galvin called for the ayes and nays.

Motion carried unanimously.

CR-3 Education Committee Report

Mr. McCafferty gave the committee's report included in the Board's Meeting packet at Tab CR-3:

The Education Committee met in person on February 24th, 2022, at Training Room 3, 6606 Tussing Road at 10:00 AM, with the following members present: Mr. McCafferty, Mr. Stanbery, Mr. Samuelson, Mr. Tyler, and Mr. Warner. Board Chairman Timothy Galvin was also present. The Committee makes the following recommendations, included in the February 25th, 2022 Board Packet at Tab CR-3, for the Board's consideration.

Also present at the meeting were BBS Staff, Regina Hanshaw and Megan Foley.

Course Applications Approvals, Denials, and Conditions as Noted.

2021 IBC Updates (West Coast Code Consultants)

BO, MPE, BPE, FPPE, BI, FPI (3 hours)

Committee Recommendation: Not recommended for approval at this time, since Ohio has not adopted the 2021 IBC. Providers invited to resubmit once Ohio has commenced the code update process.

Energy Storage Systems (West Coast Code Consultants)

BO, MPE, EPE, RBO, RPE, RBI (4.5 hours)

Committee Recommendation: Recommend approval, include ESI

Solar PV Inspections (West Coast Code Consultants)

BO, MPE, EPE, RBO, RPE, RBI (4 hours)

Committee Recommendation: Recommend approval, include ESI.

Building Water Health (Columbus)

All certifications except electrical (2 hours)

Committee Recommendation: Recommend approval.

Plumbing Plan Review (Columbus)

All certifications (2 hours)

Committee Recommendation: Recommend approval.

The Future of Legionella Testing (Ohio Association of Plumbing Inspectors)

All certifications (1 hour)

Committee Recommendation: Recommend approval.

Yearly Round Table Discussion (Ohio Association of Plumbing Inspectors)

All certifications (2 hours)

Committee Recommendation: Recommend approval. Notes to be submitted to Board Staff following event.

Plans Review 101 for Fire Code Officials (Fire Code Academy)

BO, MPE, BPE, FPPE, BI, FPI, RBO, RPE, RBI (17 hours)

Committee Recommendation: Recommend approval, include EPE, MechPE, PPE.

Advances Arc Flash Mitigation Techniques (Electrical League of Ohio)

BO, MPE, EPE, ESI, BI, FPI, RBO, RPE, RBI (2 hours)

Committee Recommendation: Recommend approval.

Equipment Short Circuit Current Rating Basics (Electrical League of Ohio)

BO, MPE, EPE, ESI, BI, RBO, RPE, RBI (2 hours)

Committee Recommendation: Recommend approval.

Fire Protection Overview: NEC Code Compliance (Electrical League of Ohio)

BO, MPE, EPE, ESI, BI, FPI, RBO, RPE, RBI (1 hour)

Committee Recommendation: Recommend approval.

Fundamentals of Back Up Power Design and Code Requirements (Electrical League of Ohio)

BO, MPE, EPE, ESI, BI, FPI, RBO, RPE, RBI (1 hour)

Committee Recommendation: Recommend approval.

NEC 2020 Changes (Electrical League of Ohio)
BO, MPE, EPE, ESI, BI, RBO, RPE, RBI (1 hour)
Committee Recommendation: Recommend approval.

NEC 2020 Overview and Top Ten Changes (Electrical League of Ohio)
BO, MPE, EPE, ESI, BI, FPI, RBO, RPE, RBI (1 hour)
Committee Recommendation: Recommend approval.

NEC 2020 Solar Power and Photovoltaic and Wind Electric Systems (Electrical League of Ohio)
BO, MPE, EPE, ESI, BI, RBO, RPE, RBI (1 hour)
Committee Recommendation: Recommend approval.

Outlets, Circuits, and Feeders (Ohio Certificate Renewal)
BO, MPE, BPE, EPE, ESI, BI, FPI, NRIUI, RBO, RPE, RBI, RIUI (4 hours)
Committee Recommendation: Recommend approval.

Passive and Active Filter Current Harmonic Mitigation Techniques (Electrical League of Ohio)
BO, MPE, EPE, ESI, BI, FPI, RBO, RPE, RBI (1 hour)
Committee Recommendation: Recommend approval.

Selective Coordination on Emergency Systems (Electrical League of Ohio)
BO, MPE, EPE, ESI, BI, FPI, RBO, RPE, RBI (2 hours)
Committee Recommendation: Recommend approval.

Service Entrance Calculations (Independent Electrical Contractors)
ESI (4 hours)
Committee Recommendation: Recommend approval.

Swimming Pools, Hot Tubs, and Spas (Independent Electrical Contractors)
ESI (4 hours)
Committee Recommendation: Recommend approval.

Mr. McCafferty moved and Mr. Warner seconded to approve the recommendations of the committee.

Chairman Galvin called for the ayes and nays.

Motion carried unanimously.

RATIFICATION OF BOARD RECOGNIZED ACCREDITATION BODIES, CONFORMITY ASSESSMENT BODIES & INDUSTRY TRADE ASSOCIATION CERTIFICATION PROGRAMS

No items for consideration.

BUILDING DEPARTMENT SUPPORT AND OVERSIGHT

No items for consideration.

PUBLIC COMMENTS

There were no public comments.

OLD BUSINESS

OB-1 Pending or Imminent Litigation – Case # BBS 2021-003 Settlement Agreement (Patrick Barnes)

Assistant Attorney General presented the proposed settlement agreement with Patrick Barnes to resolve the Case BBS #2021-003. The conditions of settlement include a 90-day suspension of

Mr. Barnes electrical safety inspector certification beginning March 1, 2022 where 60 days are suspended, one-year probation of Mr. Barnes electrical safety inspector certification beginning and March 1, 2022 and completion of inspector training at the code academy prior to end of the probation.

Mr. McCafferty moved and Mr. John Johnson seconded to approve the settlement agreement with Patrick Barnes in Case # 2021-003 and authorize the Executive Secretary to sign the agreement.

Chairman Galvin called for the ayes and nays.

Motion carried unanimously.

NEW BUSINESS

No items for consideration.

COMPENSATE BOARD MEMBERS FOR WORK PERFORMED AT THEIR REGULAR RATE

Ms. Hanshaw reported that board members had performed committee and board work for the amount of hours, including board meetings, as follows:

Mr. Barney	0	Mr. Miller	16
Ms. Cromwell	8	Mr. Pavlis	0
Mr. Denk	16	Mr. Samuelson	16
Mr. Galvin	25	Mr. Stanbery	16
Mr. Johnson	16	Mr. Tyler	16
Mr. Leach	0	Mr. Warner	16
Mr. McCafferty	16	Mr. Yankie	16

Mr. McCafferty moved and Mr. Miller seconded to compensate board members for the work performed at their regular rate.

Chairman Galvin called for the ayes and nays.

Motion carried unanimously.

FUTURE MEETINGS

March 25, 2022	September 23, 2022
May 13, 2022	October 21, 2022
June 24, 2022	November 18, 2022
August 26, 2022	December 16, 2022

ADJOURNMENT

Mr. Warner moved and Mr. Miller seconded to adjourn. The Board adjourned at 10:20 a.m.

Timothy Galvin, Chairman
Board of Building Standards

Regina Hanshaw, Executive Secretary
Board of Building Standards

File Attachments for Item:

CH-1 Certification Hearing

MARCH 25, 2022
CERTIFICATION HEARING AGENDA

Notice is hereby given that the Board of Building Standards will convene for a certification hearing in accordance with the rules of the Board at 10:00 AM, March 25th, 2022 at the Board of Building Standards, Training Room 1, 6606 Tussing Road, Reynoldsburg, Ohio 43068.

The purpose of the hearing is to hear testimony from anyone wishing to speak to the proposed certification of building departments, local boards of building appeals, and building department personnel.

Cert ID:	Name	Certification granted
5685	Anicic, Zoran	Electrical Safety Inspector*
8785	Barbour, James	Electrical Safety Inspector*
6338	Breedlove, Craig	Residential Building Inspector Residential Mechanical Inspector
6020	Brown, Austyn	Residential Building Official
8560	Brown, Thomas	Residential Building Inspector
8769	Corbin, Patrick	Building Inspector
4580	Dominick, Louis	Residential Building Inspector Trainee**
4813	Elzein, Youssef	Master Plans Examiner
8790	Esche-Lyon, Drew	NonResidential Industrialized Unit Inspector
8765	Fisher, Lance	Electrical Plans Examiner
8752	Gilkison, Craig	Residential Building Official
8796	Gillespie, Mark	Building Inspector Residential Building Official
8800	Hackney, Joseph	Electrical Safety Inspector*
5935	Hamker, Daniel	Building Inspector Trainee** Mechanical Inspector Trainee**
4497	Hanigan, Ryan	Building Official
5544	Harmon, Shawn	Building Official
8784	Harris, Eddie	NonResidential Industrialized Unit Inspector
5655	Hillier, Patrick	Building Official
1992	Lalonde, Douglas	Building Official
8799	Lamp, Eric	Residential Building Inspector Trainee
8791	Lane, William	Residential Building Official Residential Plans Examiner Residential Building Inspector



BOARD OF BUILDING STANDARDS

8793	Mowry, Michael	Master Plans Examiner Building Inspector Residential Plans Examiner Residential Building Inspector
2182	Sanders, Jesse	Building Inspector
8786	Schuller, Shawnee	Residential Building Inspector Trainee
8794	Sellers, Jesse	Building Inspector Residential Building Official
8797	Swallow, Ellen	Building Inspector Residential Building Official
8792	Szanati, John	Residential Building Inspector
8578	Taylor, Jeff	NonResidential Industrialized Unit Inspector
1538	Vanover, Thomas	Building Plans Examiner Fire Protection Inspector
8755	Watkins, Clyde	Residential Building Official

*Electrical Safety Inspectors must complete examinations prior to issuance of interim certification

** Denotes approval conditioned on receipt of fees or other conditions.

File Attachments for Item:

CR-1 Code Committee Report



Board of Building Standards

CODE COMMITTEE RECOMMENDATIONS

The Code Committee met on March 24, 2022 with the following members present: Mr. Denk, Ms. Cromwell, Mr. Johnson, Mr. Miller, Mr. Pavlis, Mr. Samuelson, Mr. Stanbery, Mr. Tyler, and Mr. Yankie. Board Chairman, Tim Galvin, was also present.

The committee report is included in the March 25, 2022 Board Meeting Packet at tab CR-1 for the Board's consideration.

March 24, 2022 Code Committee Meeting

Call to Order

The meeting was called to order by Mr. Denk at 1:12 P.M.

Approval of Minutes

Mr. Stanbery made the motion to approve the minutes of the Code Committee meeting held on February 24, 2022. Mr. Johnson seconded the motion. The motion passed unanimously.

Petitions

No items for consideration

Recommendations of the Residential Construction Advisory Committee

No items for consideration

Old Business

Mr. Yankie brought Mr. Matt Setzekorn of Emerald Built Environments to the meeting to help answer any questions about energy modeling and commissioning. Mr. Setzekorn explained the basic differences between modeling to the 2010 ASHRAE 90.1 and to the 2019 ASHRAE 90.1 and offered his modeling services to the committee. Mr. Pavlis requested that a large pre-engineered metal building be modeled for comparison purposes. Ms. Cromwell requested that an enclosed parking garage also be modeled. Mr. Setzekorn will present the results of his modeling at the May committee meeting. No decisions were made.

Staff explained the impact of recent legislation regarding regulatory restrictions. The legislation includes an exception for material adopted by reference. Therefore, staff asked the committee to consider allowing adoption of the administrative code rules in a different manner. A proposed methodology for adopting rules was presented by using the OBC Chapter 27 as an example. The committee took it under advisement

New Business

No items for consideration

Adjourn

Mr. Pavlis made the motion to adjourn at 3:50 P.M. Mr. Johnson seconded the motion. The motion passed unanimously.

File Attachments for Item:

CR-2 Certification Committee Report



Board of Building Standards

CERTIFICATION COMMITTEE MEETING REPORT

The Certification Committee met in person on March 24th, 2022, at Training Room 3, 6606 Tussing Road at 10:00 AM, with the following members present: Mr. Leach, Mr. McCafferty, Mr. Stanbery, Mr. Samuelson, Mr. Tyler, and Mr. Warner. Board Chairman Timothy Galvin was also present. The Committee makes the following recommendations, included in the March 25th, 2022 Board Packet at Tab CR-2, for the Board's consideration.

Also present at the meeting were BBS Staff, Regina Hanshaw, Debbie Ohler, Megan Foley, Rob Johnson, and Amy Jones, and guests Joseph Hackney, Art Dahlberg, and Dave Collins. Guests Eric Lamp, Jim Decker and Jacinda Cheatham attended by teleconference.

Recommend the following applications be approved following a certification hearing effective immediately unless otherwise noted on the certification hearing agenda:

Cert ID:	Name	Certification granted
5685	Anicic, Zoran	Electrical Safety Inspector*
8785	Barbour, James	Electrical Safety Inspector*
6338	Breedlove, Craig	Residential Building Inspector Residential Mechanical Inspector
6020	Brown, Austyn	Residential Building Official
8560	Brown, Thomas	Residential Building Inspector
8769	Corbin, Patrick	Building Inspector
4580	Dominick, Louis	Residential Building Inspector Trainee**
4813	Elzein, Youssef	Master Plans Examiner
8790	Esche-Lyon, Drew	NonResidential Industrialized Unit Inspector
8765	Fisher, Lance	Electrical Plans Examiner
8752	Gilkison, Craig	Residential Building Official
8796	Gillespie, Mark	Building Inspector Residential Building Official
8800	Hackney, Joseph	Electrical Safety Inspector*
5935	Hamker, Daniel	Building Inspector Trainee** Mechanical Inspector Trainee**
4497	Hanigan, Ryan	Building Official
5544	Harmon, Shawn	Building Official
8784	Harris, Eddie	NonResidential Industrialized Unit Inspector
5655	Hillier, Patrick	Building Official
1992	Lalonde, Douglas	Building Official

Timothy Galvin, Chairman

Ohio Board of Building Standards
6606 Tussing Road
Reynoldsburg, OH 43068-9009

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8799	Lamp, Eric	Residential Building Inspector Trainee
8791	Lane, William	Residential Building Official Residential Plans Examiner Residential Building Inspector
8793	Mowry, Michael	Master Plans Examiner Building Inspector Residential Plans Examiner Residential Building Inspector
2182	Sanders, Jesse	Building Inspector
8786	Schuller, Shawnee	Residential Building Inspector Trainee
8794	Sellers, Jesse	Building Inspector Residential Building Official
8797	Swallow, Ellen	Building Inspector Residential Building Official
8792	Szanati, John	Residential Building Inspector
8578	Taylor, Jeff	NonResidential Industrialized Unit Inspector
1538	Vanover, Thomas	Building Plans Examiner Fire Protection Inspector
8755	Watkins, Clyde	Residential Building Official

*Electrical Safety Inspectors must complete examinations prior to issuance of interim certification

** Denotes approval conditioned on receipt of forms or fees or other conditions.

Building Department Certifications, Manufactured Homes Inspection Agency/Inspectors

None this month.

Personnel Certification Applications

Recommend the following applications be denied, additional information be requested, or other action as noted:

Barbour, James BI

Certification ID: 8785

Current certs: none

Committee recommendation: recommend request for additional information on structural experience.

Dominick Louis RBI Trainee

Certification ID# 4580

Current certifications: none

Committee recommendation: Recommend approval pending receipt of Trainee forms.

Timothy Galvin, Chairman

Ohio Board of Building Standards
6606 Tussing Road
Reynoldsburg, OH 43068-9009

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Ferry, Raymond RBI
Certification ID: 8779
Current certifications: None
Committee recommendation: recommend request for additional information on experience.

Hamker, Daniel – BI Trainee, MI Trainee
Cert ID: 5935
Current Certifications: PI, RBI
Committee recommendation: Alternative Trainee Plan approved pending receipt.

Heilman Robert - PI
Certification ID: 8789
Current certifications: None
Committee recommendation: recommend request for additional information on installation experience.

Mercer, Nathaniel - BI, RBO
Certification ID: 8795
Current certifications: None
Committee recommendation: recommend request for additional information or BI trainee

Shipkowski, Scott - BI
Certification ID: 8783
Current Certifications: none
Committee recommendation: Request additional information on work history, education.

Old Business

Permit Tech Certification Working Group update March 2022
Jim Decker and Jacinda Cheatham, representing the Permit Tech Certification working group updated the committee on progress, communications with large jurisdictions and governance organizations.

New Business

Cincinnati Alternative Trainee Program
Art Dahlberg, BO of the Cincinnati Building Department, attended to introduce and discuss the Alternative Trainee Program his department developed to address staffing shortages and standardize new inspector learning.
Committee Recommendation: Recommend approval of Cincinnati Alternative Trainee Program as a recognized trainee program pursuant to Board rules.

Timothy Galvin, Chairman

File Attachments for Item:

CR-3 Education Committee Report



Board of Building Standards
EDUCATION COMMITTEE MEETING REPORT

The Education Committee met in person on March 24th, 2022, at Training Room 3, 6606 Tussing Road at 10:00 AM, with the following members present: Mr. McCafferty, Mr. Stanbery, Mr. Samuelson, Mr. Tyler, and Mr. Warner. Board Chairman Timothy Galvin was also present. The Committee makes the following recommendations, included in the March 25th, 2022 Board Packet at Tab CR-3, for the Board's consideration.

Also present at the meeting were BBS Staff, Regina Hanshaw and Megan Foley, and guest Dave Collins.

Course Applications Approvals, Denials, and Conditions as Noted.

2022 Group B Committee Action Hearing - ADMIN (International Code Council)
All certifications (9 hours)
Committee Recommendation: Recommend approval

2022 Group B Committee Action Hearing - IEBC (International Code Council)
All certifications (8.5 hours)
Committee Recommendation: Recommend approval

2022 Group B Committee Action Hearing IEBC-S, IBC-S (International Code Council)
All certifications (39 hours)
Committee Recommendation: Recommend approval

2022 Group B Committee Action Hearing IRC-B (International Code Council)
All certifications (47 hours)
Committee Recommendation: Recommend approval

Continuous Load Path Connections for Wood-Framed Structures (Simpson Strong-Tie)
BO, MPE, BPE, BI, NRIUI, RBO, RPE, RBI, RIUI (5 hours)
Committee Recommendation: Approval denied as course is based on codes not operative in Ohio

HyperSpike (Miami Valley Building Officials Council)
All certifications except plumbing and IU (1 hour)
Committee Recommendation: Recommend approval. Mr. Tyler did not participate in the review, discussion, or approval of this course.

NEC 2020 Changes (Electrical League of Ohio)

BO, MPE, EPE, ESI, BI, RBO, RPE, RBI (2 hours)

Committee Recommendation: Administrative approval ratified

Overview of the 2017 OMC (Ohio Certificate Renewal)

Add FPPE, FPI (4 hours, 8 hours)

Committee Recommendation: Recommend approval of addition of FPPE and FPI

File Attachments for Item:

RE-1 March Building Department Report

Building Department Support and Oversight

March 2022 Department Visit Status Report

Board Staff conduct building department visits to engage building officials in discussion regarding the administration of their departments and to obtain feedback for the Board.

Specifically, Board Staff inquire on the status of plan review and inspection turnaround times, protocols, policies and processes of the department, software systems used, current and projected activity, department funding and fees, reported activity to the Board, relationships with fire departments, administration and elected officials, the issuance of plan approvals, adjudication orders, certificates of occupancy, and appeals.

The following Building departments were visited since the last monthly Board update:

Centerville
Olmsted Township
Whitehall
North Canton
Moreland Hills
Pepper Pike
Beachwood
Warrensville Heights
Valley View
Medina
Medina County

Staff observed that most departments are on a continued trend to implement and upgrade software/computer systems to adapt to a greater online presence and continue to increase digital plan review of electronically submitted submissions. (A Virtual Office.)

Building officials indicate that workflow is stabilizing in both commercial and Residential sectors and that many departments are beginning to transition back to either hybrid or full time schedules in their offices and with onsite inspections.

Recent comments include positive feedback regarding the quality technical support received from staff, education opportunities, and specific guidance for building code enforcement.

File Attachments for Item:

NB-1 Petition 22-01 - 2020 NEC RCO

March 17, 2022

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

Subject: Petition to Update NFPA 70

Dear Ms. Hanshaw:

Pursuant to Ohio Revised Code Section 3781.12, please find attached a petition from the Ohio Electrical Coalition requesting the Ohio Board of Building Standards update the 2017 edition of NFPA 70 to the 2020 edition of NFPA 70 for the Residential Code of Ohio.

Thank you for your time and consideration regarding this matter.

Sincerely,

Tom Moore

Ohio Electrical Coalition
Petition to update referenced standard
(NFPA 70) National Electrical Code
for the Residential Code of Ohio

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APPLICATION

FOR
RULE CHANGE



BOARD OF BUILDING STANDARDS

6606 Tussing Road, P.O. Box 4009

Reynoldsburg, Ohio 43068-9009

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bbs@ohio.gov

www.com.state.oh.us/dico/bbs/default.aspx

Pursuant to section 3781.12 of the Revised Code and rules adopted by the Board of Building Standards, application is herewith submitted to adopt, amend, or annul a rule adopted by the Board pursuant to section 3718.10 of the Revised Code.

For BBS use:

Petition #:

Date Recv'd:

Submitter: Thomas E Moore Ohio Electrical Coalition
(Contact Name) (Organization/Company)

Address: 3462 Brunk Road
(Include Room Number, Suite, etc.)
Akron Ohio 44312
(City) (State) (Zip)

Telephone Number: 330-289-7932 **Fax Number:** _____

Date: March 17, 2022 **E-mail Address:** tmoore1767@gmail.com

Code Section: Referenced Standard NFPA 70: 4101:8-34 & 4101:8-44-01

General Explanation of Proposed Change (attach additional sheets if necessary):

Please see attachment

Explanation of Cost Impact of Proposed Code Change*: Please see attachment

*Attach additional cost information as necessary to justify any statement of cost increase or cost decrease.

Information on Submittal (attach additional sheets if necessary):	
1. Sponsor:	<p style="text-align: center;">Ohio Electrical Coalition</p> <p style="text-align: center;"><small>Organization sponsoring or requesting the rule change (if any)</small></p>
2. Rule Title:	<p>4101:8-34 Electrical: 3401.1 Electrical and 4101:8-44-01 Referenced Standards 70-20 National Electrical Code</p> <p style="text-align: center;"><small>Title of rule change</small></p>
3. Purpose/ Objective:	<p>Please see attachment</p> <p style="text-align: center;"><small>Technical justification for the proposed rule change</small></p>
4. Formatted Rule Language (Using Strike-out for Deleted Text and Underline for Added Text)	<p>Please see attachment</p> <p style="text-align: center;"><small>Use strike-out for deleted text and underline for added text</small></p>
5. Notes:	<ol style="list-style-type: none"> 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. Please provide a copy of application and documentation. 3. Use a separate form for each code change proposal.

March 16, 2022

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

Re: Petition to update referenced standard (NFPA 70) National Electrical Code 2017 edition to the 2020 edition

Rule Titles:

4101:8-34 Electrical: **3401.1 Electrical.** *The provisions of the National Electrical Code, NFPA 70, shall be incorporated herein and shall govern the installation, testing and operation of the electrical systems of one-, two- and three-family dwellings and their accessory structures, except for the following:*

~~1. Section 210.8(A)(2) shall be modified to read:~~ Garages, and also accessory buildings that have a floor located at or below grade level not intended as habitable rooms and limited to storage areas, work areas, and areas of similar use ~~except for the receptacle located to serve a garage door opener when the device is a single receptacle and located in the ceiling.~~

~~2. Section 210.8(A)(5) shall be modified to read:~~ Unfinished portions or areas of the basement not intended as habitable rooms.

Exceptions:

~~1. A receptacle supplying only a permanently installed fire alarm or burglar alarm system shall not be required to have ground-fault circuit-interrupter protection.~~

~~2. A single receptacle located to serve a sump pump shall not be required to have ground-fault circuit-interrupter protection when there is a duplex receptacle with ground-fault circuit-interrupter protection within six (6) feet of the sump pump.~~

~~3. Section 210.8(D) shall be deleted.~~

~~4. Section 210.12(A) shall be modified to read:~~

All 120-volt single-phase, 15- and 20-ampere branch circuits supplying outlets or devices installed in dwelling unit kitchens, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sun rooms, recreational rooms, closets, hallways, laundry rooms, or similar rooms or areas shall be protected by any of the means described in 210.12(A)(1) through (6):

~~(1) A listed combination-type arc-fault circuit interrupter, installed to provide protection of the entire branch circuit.~~

~~(2) A listed branch-feeder-type AFCI installed at the origin of the branch circuit in combination with a listed outlet branch-circuit type arc-fault circuit interrupter installed at the first outlet box on the branch circuit. The first outlet box in the branch circuit shall be marked to indicate that it is the first outlet of the circuit.~~

~~(3) A listed supplemental arc protection circuit breaker installed at the origin of the branch circuit in combination with a listed outlet branch-circuit type arc-fault circuit interrupter installed at the first outlet box on the branch circuit where all of the following conditions are met:~~

~~a. The branch-circuit wiring shall be continuous from the branch-circuit overcurrent device to the outlet branch-circuit arc-fault circuit interrupter.~~

~~b. The maximum length of the branch-circuit wiring from the branch-circuit overcurrent device to the first outlet shall not exceed 15.2 m (50 ft.) for a 14 AWG conductor or 21.3 m (70 ft.) for a 12 AWG conductor.~~

~~c. The first outlet box in the branch circuit shall be marked to indicate that it is the first outlet of the circuit.~~

(4) A listed outlet branch-circuit type arc-fault circuit interrupter installed at the first outlet on the branch circuit in combination with a listed branch-circuit overcurrent protective device where all of the following conditions are met:

- a. The branch-circuit wiring shall be continuous from the branch-circuit overcurrent device to the outlet branch-circuit arc-fault circuit interrupter.
- b. The maximum length of the branch-circuit wiring from the branch-circuit overcurrent device to the first outlet shall not exceed 15.2 m (50 ft.) for a 14 AWG conductor or 21.3 m (70 ft.) for a 12 AWG conductor.
- c. The first outlet box in the branch circuit shall be marked to indicate that it is the first outlet of the circuit.
- d. The combination of the branch-circuit overcurrent device and outlet branch-circuit AFCI shall be identified as meeting the requirements for a system combination type AFCI and shall be listed as such.

(5) If RMC, IMC, EMT, Type MC, or steel-armored Type AC cables meeting the requirements of 250.118, metal wireways, metal auxiliary gutters, and metal outlet and junction boxes are installed for the portion of the branch circuit between the branch-circuit overcurrent device and the first outlet, it shall be permitted to install a listed outlet branch-circuit type AFCI at the first outlet to provide protection for the remaining portion of the branch circuit.

(6) Where a listed metal or nonmetallic conduit or tubing or Type MC cable is encased in not less than 50 mm (2 in.) of concrete for the portion of the branch circuit between the branch-circuit overcurrent device and the first outlet, it shall be permitted to install a listed outlet branch-circuit type AFCI at the first outlet to provide protection for the remaining portion of the branch circuit. Exception No. 1: Where an individual branch circuit to a fire alarm system installed in accordance with 760.41(B) or 760.121(B) is installed in RMC, IMC, EMT, or steel-sheathed cable, Type AC or Type MC, meeting the requirements of 250.118, with metal outlet and junction boxes, AFCI protection shall be permitted to be omitted.

Exception No. 2: Branch circuits supplying receptacle outlets installed to serve only the kitchen countertop surfaces shall be permitted to be installed without arc-fault circuit interrupter protection.

4101:8-44-01 Referenced standards: ~~70-17 National Electrical Code~~ 70-20 National Electrical Code

Submitter: Thomas E. Moore, Ohio Electrical Coalition, 3462 Brunk Rd, 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 2017 edition of NFPA 70 with the 2020 edition of NFPA 70 for one- two- and three-family dwellings.

The purpose of NFPA 70 is simple and straightforward; to protect persons and property from hazards arising from the use of electricity. For over 125 years the National Electrical Code has codified requirements that establish a minimum level of safety for electrical systems installed in homes, businesses and elsewhere. As the use of electrically powered equipment has increased throughout our history, so has the need to develop requirements that allow new technologies to be safely implemented into workplaces and homes.

NFPA 70 is created through an exhaustive stakeholder consensus process that considers input from a balance of interests and reflects the collective knowledge of qualified electricians, electrical inspectors, manufacturers, testing lab personnel, and other professionals that review and act on input from the public with the singular focus of ensuring safe electrical installations.

The OBBS has taken an important step in public safety with moving forward with the adoption process for the 2020 NEC for all structures regulated by the Ohio Building, Mechanical and Plumbing Codes, which includes 4-family and larger multifamily dwellings. Ohio citizens are highly dependent on reliable and safe electrical power where they work, where they recreate and most importantly, where they live. Adoption of the 2012 NFPA 70 for the Residential Code of Ohio will ensure the same level of protection is provided, regardless of the size of the dwelling unit.

In addition to a request to update to the 2020 edition of NFPA 70, this petition is also requesting deletion of the Ohio specific amendments to NFPA 70 sections 210.8(A)(2) & (A)(5), 210.8(D) and 210.12(A). The potential for a shock hazard is not simply reduced by the fact that the receptacle is in a dedicated space. From a hazard-based safety-engineering standpoint, you would only want to defeat or eliminate a primary safety device if the hazard could be greater if the safety device was not defeated. One would have to make this case with a sump pump, garage door opener or dishwasher if the GFCI were to be eliminated from that location.

Published data from the U.S. Consumer Product Safety Commission show a decreasing trend in the number of electrocutions in the United States since the introduction of GFCI devices. The US Consumer Product Safety Commission (US CPSC) conducted a cost/benefit analysis of a proposal for additional GFCIs in new residential installations.¹ As reflected in this study, the expected benefits would be a reduction of societal costs associated with residential electrocutions, which translates to the benefit of this life-saving technology being greater than the initial upfront cost.

The original call for enhanced branch circuit and cord protection came from the CPSC based on fires attributed to electrical origin. The manufacturers, in concert with Underwriters Laboratories, worked to develop a product and a product standard to address the CPSC concern. The AFCI was the product developed as the means to mitigate the types of circuit malfunctions that circuit breakers and fuses are not designed to protect against. Modern technology has provided us with the opportunity to incorporate this next generation of circuit protection devices into homes and other occupancies. These devices advance the cause of electrical safety by providing early reaction and circuit interruption where wiring systems concealed within walls and ceilings are damaged. Requirements for AFCIs have been included in NFPA 70 since the 1999 edition. These devices also respond to damaged appliance cords, a known cause of home fires. The current amendment removes these requirements from receptacles serving kitchen countertops, which lessen the level of protection provided for the public.

The US Fire Administration published a report² in May 2019 that shows a decline in the number of fires attributed to electrical malfunction. Data for the 10-year period of 2008 to 2017 reflected a 14% decrease in fires, 19% decrease in deaths, 34% decrease in injuries and 35% decrease in dollar loss.

Following are some key changes that impact electrical safety:

Keeping the regulatory document current with industry trends in new technology and delivery and generation of electric power.

- 230.67. New requirement covering surge protection for dwelling units aligns with the everchanging electrical industry landscape to protect against surges that can damage sensitive electronics and systems found in most modern appliances, safety devices and equipment used in dwellings. With the expanded use of distributed energy resources, these can also contribute introduction of surges into the system.
- 230.85. New requirement for emergency disconnecting means at one- and two-family dwelling

units to ensure first responders can safely remove power from an involved structure.

- Article 242 Overvoltage Protection – new article addresses installation requirements for Surge-Protective Devices (SPD) and Surge Arrestors used to achieve this protection.
- Article 625 Electric Vehicle Power Transfer System – requirements for electric vehicles and supply equipment to encompass bidirectional current exchange.
- Updates to Articles 690 Solar Photovoltaic (PV) Systems, 706 Energy Storage Systems, Article 710 Standalone Systems and Article 712 Direct-Current Micro-grids continue to support new and expanding technologies, which has immeasurable societal benefits at both a micro- and macro-economic perspective.

Examples of new and revised requirements that may provide relief on the overall cost of the electrical system.

- 210.11(C)(3) & (4). Revision specifies which receptacle outlets are required to be on the required 20 ampere circuit for bathrooms and garages which provides more flexibility with circuiting in those areas.
- Article 220 Branch-Circuit, Feeder, and Service Load Calculations – Several revisions to this article, including the modernization of the tables currently in use for calculations, which has been extensively revised to reflect improvements in energy efficiency and may grant substantial relief for sizing of service and feeder distribution systems.
- 225.30(B). Revised to permit multiple smaller feeders, with smaller conductors and lower rated OCPD's to allow more flexibility with the design.

Protecting electrical workers while maintaining or servicing electrical or electrically powered equipment.

- 230.62(C). New requirement that provides additional shock protection with barriers to be placed in service equipment to prevent inadvertent contact.
- 230.71(B). Requirements for service disconnecting means is revised by eliminating the risk of the inability to establish an electrically safe work condition for justified energized work that must be performed within service equipment enclosures with more than one service disconnect.

Protecting people from electric shock in homes, workplaces and places of recreation.

- First introduced in the early 1970s, 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.
- Revision to add floating buildings to the scope of Article 555 and revised to provide greater flexibility with the application of ground-fault protection requirements.

These examples illustrate the importance of regularly updating NFPA 70 in order to recognize new methods and installation practices for safely distributing electrical power, safe interaction with electrical systems, to address safety concerns not previously covered in the referenced standard and to put new requirements in place that facilitate the safe implementation of new technology covering the generation, distribution and management of electrical power. This is the work performed during the revision process by the volunteer industry subject matter experts who serve on the NFPA technical committees. Updating to the 2020 NFPA 70 is a vitally important and proactive step for consumer protection and for the safe advancement of new electrical system technology.

The cost impact of complying with the 2020 edition of NFPA 70 will vary depending on the design approach and should be considered holistically by considering the safety benefit alongside of the cost. Additionally, there are numerous types of materials, equipment and device options in the electrical marketplace, and multiple methods for achieving code compliance. The coalition is prepared to submit a cost impact analysis if petition is approved to begin the review and rulemaking process.

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 2020 edition of NFPA 70. Ohio citizens expect their electrical system will be safe from fire and shock hazards. This code update will ensure that Ohio remains at the forefront of technological developments in the electrical industry and ensure that electrical systems are safe for homeowners and citizens across Ohio, the most important stakeholder in the adoption and enforcement of construction safety codes.

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

Sincerely,

Ohio Electrical Coalition

¹[Consumer Product Safety Commission – Economic Considerations – GFCIs](#)

²[US Fire Administration – Residential Building Electrical Malfunction Fire Trends \(2008-2017\)](#)



"Let the Code Decide"

OHIO CHAPTER

International Association of Electrical Inspectors

President

Karl Frederick
Central Division

March 16, 2022

First Vice-President

Zach Jenkins
Northwest Division

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

Second Vice-President

William Buetler
Western Reserve

Subject: 2020 NFPA 70, National Electrical Code (NEC) Update

Immediate Past-President

Michael Koken
Eastern Division

The Ohio Chapter IAEI strongly encourages the Ohio Board of Building Standards to update its current NFPA 70, from the 2017 edition to the 2020 edition for Residential Code of Ohio regulated occupancies and supports the petition submitted on behalf of the Ohio Electrical 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.

Secretary/Treasurer

Lorenzo Adam
Southwest Division

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

Inspector Member

Pete Baldauf
Southwest Division

In addition to new requirements to address advancing alternative technologies and improved safety for the electrical worker, the 2020 NEC also expands important safety requirements for dwelling unit occupancies. While expansion of important safety requirements may add cost, the 2020 NEC also includes requirements that provide economic relief.

Inspector Member

Jeff Affolter
Akron Division

The Ohio Chapter IAEI Board of Directors respectfully requests the OBBS move forward with updating the NFPA 70, NEC, to the 2020 edition. Embracing these requirements by updating to the 2020 NEC is an important step forward with public safety.

Western Section**Chapter Representative**

Jeff Grassi
Western Reserve Division

Education Chairman

Gaylord Poe
Southwest Division

Respectfully,

Historian

Armand Lenarz
Akron Division

Karl J. Frederick

Karl Frederick, President

On behalf of the Board Members of the Ohio Chapter IAEI



CHAPTER

OHIO BUILDING OFFICIALS ASSOCIATION

PO BOX 1506, COLUMBUS OH 43216-1506
oboa.clubexpress.com



Founded 1961

March 15, 2022

CHAPTER
MEMBERS

BOCONEO

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NCOBOA

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OCPT

ODPCA

SWOBOA

SWOFSC

Ohio Board of Building Standards
PO Box 4009
Reynoldsburg OH 43068-9009

**SUBJECT: Petition to Amend Residential Code of Ohio to Adopt 2020 Edition
National Electrical Code**

Ohio Building Officials' Association Resolution 2021-4 (attached) adopted by the general membership November 8, 2021 supports a petition for the Residential Code of Ohio to adopt the 2020 Edition National Fire Protection Association standard 70, National Electrical Code.

Sincerely,

Robert Eifert
President

Atch
a/s



OHIO BUILDING OFFICIALS ASSOCIATION

RESOLUTION 2021-4

of the

ANNUAL MEETING OF THE MEMBERS

concerning



A CODE CHANGE PETITION IMPLORING THE OHIO BOARD OF BUILDING STANDARDS TO ADOPT THE 2020 NFPA 70 (NATIONAL ELECTRICAL CODE) AS THE REFERENCE STANDARD FOR RESIDENTIAL CONSTRUCTION

WHEREAS the Board of Building Standards formulates and adopts rules governing the erection, construction, repair, and alteration of buildings known as the Ohio Building Code, Ohio Mechanical Code, Ohio Plumbing Code, and the Residential Code of Ohio; and

WHEREAS on September 2, 2021, the Board of Building Standards issued a notice of its intent to amend the Ohio Administrative Code to update rules for the Ohio Building, Mechanical, and Plumbing Codes to reference the the 2020 edition of NFPA 70 (National Electrical Code); and

WHEREAS the reference standard for Residential Code of Ohio would remain the 2017 edition of NFPA 70 (National Electrical Code); and

WHEREAS many electrical contractors and designers work on both Residential and Non-Residential projects requiring them to learn, maintain and work from two standards which would cause unnecessary burden as well as additional expense; and

WHEREAS Ohio Building Officials Association members who are charged with enforcement of Ohio building codes, recognize the need for consistent enforcement of a single reference standard for effective plan approval and inspection of electrical work on both Residential and Non-Residential projects.

BE IT RESOLVED that the members of this organization here assembled on Monday November 8, 2021 do hereby support a code change petition imploring the Ohio Board of Building Standards to adopt the 2020 NFPA 70 (National Electrical Code) as the reference standard for the Residential Code of Ohio.



NATIONAL FIRE PROTECTION ASSOCIATION

The leading information and knowledge resource on fire, electrical and related hazards

March 14, 2022

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

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 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.

The NFPA 70 community has worked diligently to make sure safe installation rules are in place for the continuously changing electrical industry landscape. The 2020 edition of NFPA 70 has been issued by the NFPA Standards Council.

NFPA supports the petition filed on behalf of the Ohio Electrical Coalition, to update the 2017 edition of NFPA 70 to the 2020 edition. We encourage the Ohio Board of Building Standards to move forward by providing its citizens with the appropriate level of safety outlined in the 2010 edition of NFPA.

Sincerely,

Meredith Hawes
Regional Director, North Central Region
National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02169



March 16, 2022

Regina Hanshaw, Executive Secretary
Board of Building Standards
6606 Tussing Rd
P. O. Box 4009
Reynoldsburg, OH 43068-9009

Re: Greater Cincinnati Electrical Association (GCEA) support for timely adoption of the entire "2020 NEC"

Dear Regina,

I am writing on behalf of the GCEA. The GCEA is an association that represents the interest of our members who are electrical industry companies in the greater Cincinnati area. Our mission is to provide "Quality electric service" to our community. We pursue this mission by providing on-going training, by stressing safety, and by providing a venue for communications across the different electrical company divisions necessary for a complete electrical community. GCEA membership includes electrical contractors, electrical material distributors, manufacturers, manufacturer reps, utilities, and electrical safety inspectors.

The GCEA's Board of Trustees would like to state it is in full support of the Ohio Code Coalition's petition in regards to the timely adoption of the "2020 National Electrical Code" (2020 NEC) for all electrical installations including 1, 2, and 3 – family dwellings.

Typically our members are working daily on multiple jobs in various stages of completion and having two versions of the NEC active at one time is awkward and causes an additional concern on each project. The GCEA strongly supports the alleviation of this burden on our industry.

Sincerely

A handwritten signature in black ink, appearing to read "Terrence J. Eibel", is written over a horizontal line.

Terrence J. Eibel

Executive Director, GCEA
P.O. Box 58183
Cincinnati, OH 45258
513-922-6501



March 16, 2022

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

Subject: Support for Petition to update the referenced National Electrical Code to the 2020 edition

Dear Secretary Hanshaw,

We at Underwriters Laboratories (UL) are deeply committed to advancing the safety of the citizens of the state of Ohio. UL believes NFPA 70, the National Electrical Code® (NEC®) serves as an important tool in advancing that safety. Adoption of the most current edition of the code, in this case the 2020 NEC® by the Ohio Board of Building Standards is critical to keeping pace with safety science. Pursuant to the Ohio Revised Code 3781.12, I am writing on behalf of UL to request that the State of Ohio move forward with the adoption of 2020 NFPA 70 NEC as requested in the petition filed by the Ohio Electrical Coalition.

UL is driven by our global safety Mission- promoting safe living and working environments by the application of safety science and hazard-based safety engineering. Founded in 1894, UL has earned a reputation as a global leader in product safety standards development, testing and certification, especially in the areas of fire and electrical safety, the basis of UL's founding. UL therefore works closely with the electrical installation community to coordinate product safety standardization/certification with the installation safety practice to achieve the most desirable safety outcomes.

In conclusion, UL urges the Ohio Board of Building Standards to ensure the safety of its citizens by adopting the latest electrical safety requirements as represented by the 2020 edition of the NEC®.

Should you have any questions, please contact our representative for Ohio, Tom Lichtenstein, at thomas.r.lichtenstein@ul.com or by phone at (847) 664-2160.

Sincerely,

A handwritten signature in dark ink, reading 'Deborah Jennings-Conner'.

Deborah Jennings-Conner
VP, Regulatory Services

UL LLC
12 Laboratory Drive

Underwriters Laboratories Inc.
333 Pfingsten Road, Northbrook, IL 60062-2096 USA
T: 847.272.8800 / F: 847.272.8129 / W: UL.com



PO Box 13995
Research Triangle Park, NC 27709
T: (919) 549-1603
M: (919) 308-4888
W: ul.com

cc: Tom Lichtenstein Senior Regulatory Engineer



Independent Electrical Contractors of Greater Cincinnati
586 King's Run Dr.
Cincinnati, OH 45232
Ph 513-542-0400
www.iec-cincy.com

March 10, 2022

Regina Henshaw, Executive Secretary
Ohio Board of Building Standards
6606 Tussing Rd.
Reynoldsburg, OH 43068-9009

RE: 2020 National Electrical Code Adoption

Dear Regina,

The Independent Electrical Contractors of Greater Cincinnati request a rule change to update the 2017 edition of NFPA 70 with the 2020 edition of NFPA 70 in accordance with ORC 3781.12.

The 2020 NEC provides numerous changes that will enhance public safety and advance new methods, materials and installation practices. It also includes important changes to rules used for certain calculations which modernize and acknowledge improvements in energy efficiency which may account for and contribute savings in the overall cost of an electrical system.

Living in a strong, technology-driven consumer world that regularly sees advancements, in said technologies, warrants regular and up-to-date standards for implementation to help ensure the safety of the end-user and their property. Updating to the 2020 NEC provides a critical and necessary step towards continued consumer health preservation and evolution of safely implementing technologies in electrical systems.

The NEC is the most widely adopted consensus Code in the world. Consensus is a key word when developing the document. The NFPA provides the document rules and governing procedures that stipulate all NEC changes have had public input and public review. Technical committee membership classifications are used to maintain balanced Code Making Panels that represent their Principal interest to ensure changes are necessary and in the best interest of public safety.

I urge the state of Ohio to adopt the 2020 NEC without delay or modifications to the document.

Sincerely,

Matthew Hittinger

Matthew Hittinger
Executive Director
Independent Electrical Contractors of Greater Cincinnati

March 11, 2022



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

Re: Schneider Electric Supports the Ohio Electrical Coalition Petition to Adopt the 2020 Edition of the National Electrical Code for the Residential Code of Ohio.

Dear Ms. Hanshaw:

I am writing to inform you of Schneider Electric's support of the Ohio Electrical Coalition Petition to Adopt the 2020 Edition of the National Electrical Code for the Residential Code of Ohio.

As a global specialist in energy management, Schneider Electric offers integrated solutions across multiple market segments, including leadership positions in Utilities & Infrastructures, Industrial & Machine manufacturers, Non-residential buildings, Data Centers & Networks. Focused on making energy safe, reliable, efficient, productive and green, Schneider Electric 750 plus Ohio employees are located in various offices and four manufacturing facilities across the state. We support thousands of additional direct and indirect jobs in Ohio by working with over 400 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 which supports safe electrical infrastructure installations further advancing the safe use of electricity. Our products are designed and manufactured to comply with the most current edition of the NEC. Electrical infrastructure that does not utilize the most current electrical code restricts the use of the most current technology and can be less efficient and more costly for not only Schneider Electric to manufacture, but also for the construction industry to implement.

The adoption of the 2020 NEC will permit the construction industry to take advantage of the most cost-effective infrastructure solution and utilize emerging technological advancements while enhancing safety in Residential buildings in the state.

Once again, Schneider Electric urges the OBBS to promptly initiate the review and adoption of the 2020 NEC for the Residential Code of Ohio.

Sincerely,

Don Iverson
Manager of Industry Codes & External Affairs

Schneider Electric
1601 Mercer Rd
Lexington, KY 40511
Tel. (517) 204-0559
www.us.schneider-electric.com

March 15, 2022

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

Re: Support Adoption of 2020 Edition of the National Electrical Code

Dear Ms. Hanshaw,

I am writing in support of updating the Residential Code of Ohio from the 2017 edition of the National Electrical Code® (NEC) to the 2020 edition of the NEC. For many years, Ohio has been one of the first states to adopt the entire current electrical code on a regular revision schedule, demonstrating that the safety of its citizens and economic well-being of its industry is of utmost importance.

Siemens employs 1,959 people throughout Ohio who, along with their families, would be impacted by this update. There are 21 Siemens locations reporting \$611M in sales last year. Income tax paid to the state exceeds \$450k with employee wages exceeding \$226M.

Updating the National Electric Code® to the current 2020 edition with no amendments would help to keep Ohio residents safe.

Thank you for your consideration on this important issue.

With kind regards,



Ashley Bryant
Senior Product Manager, Electronic Circuit Breakers
Siemens Industry, Inc.
3617 Parkway Lane
Peachtree Corners, GA 30092, USA
Tel.: +1 404 697-1587
<mailto:ashley.bryant@siemens.com>



National Electrical Manufacturers Association

The association of electrical equipment
and medical imaging manufacturers
www.nema.org

March 17, 2022

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

Re: NEMA Supports Adoption of 2020 Edition of the National Electrical Code

Dear Ms. Hanshaw:

On behalf of the National Electrical Manufacturers Association (NEMA), I am writing to express support for the update of the Residential Code of Ohio from the 2017 edition of the National Electrical Code® (NEC) to the 2020 edition of the NEC.

As the association representing over 325 electrical and medical imaging manufacturers that make the equipment used in a variety of sectors—electric transmission and distribution, commercial and residential buildings, water treatment and delivery, transportation, industrial processes, food, healthcare, agriculture, and manufacturing—NEMA supports regulatory action and programs that efficiently provide affordable, safe, and reliable electricity to the American public. NEMA member companies have a significant presence in the state of Ohio, representing 44 companies with 142 manufacturing and engineering facilities that support the state's economy. Member companies in Ohio collectively employ over 70,077 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 2020 NEC, businesses today will be able to take advantage of lower infrastructure start-up and operational costs through new and improved technology. For instance, modernized rules in the 2020 NEC, used for the calculations of improvements in energy efficiency, may provide relief for the overall cost of the electrical system. Additionally, requirements relating to alternative energy continue to stay relevant so as to not become a barrier to the implementation of those technologies as they evolve.

National Electrical Manufacturers Association
1300 North 17th Street, Suite 900 - Rosslyn, VA 22209

Once again, NEMA urges the Ohio Board of Building Standards to maintain this tradition of excellence by adopting the 2020 edition of the NEC. If you have any questions, please contact Tim McClintock at Tim.McClintock@nema.org or (303) 749-9782.

Sincerely,

A handwritten signature in black ink, appearing to read 'Todd Sims', with a stylized flourish at the end.

Todd Sims
Director, Government Relations
National Electrical Manufacturers Association



March 18, 2022

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 the 2017 edition of the National Fire Protection Association (NFPA) 70 with the 2020 edition of NFPA 70.

Dear Ms. Hanshaw:

I am writing to express Eaton's support of the State of Ohio to update the 2017 edition of NFPA 70 with the 2020 edition of NFPA 70.

Eaton employs over 1,300 associates at 5 locations in the State of Ohio and spends over \$350 million with Ohio-based businesses every year. Eaton's electrical business is a global leader with expertise in power distribution and circuit protection; backup power protection; control and automation; lighting and security; structural solutions and wiring devices; solutions for harsh and hazardous environments; and engineering services.

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. 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 Ohio Board of Building Standards (OBBS) mission.

Eaton has long supported timely and un-amended adoption of the National Electrical Code® (NEC) by state and local jurisdictions. We believe that adoption of the most current edition of the NEC® promotes a uniform and up-to-date standard of safety for all occupants in the built environment. Current codes produce safer and more economically prosperous communities.

Once again, Eaton urges the OBBS to maintain this tradition of excellence by adopting the 2020 edition of NFPA 70.

If you have any questions, please contact me at (636) 515-6083. Thank you for your time and consideration of this important matter.

Sincerely,

Kevin S. Arnold, P.E.
Manager of Codes & Standards