

Committee Report

CONSENT CALENDAR

April 27, 2021

HOUSE OF REPRESENTATIVES

REPORT OF COMMITTEE

The Committee on Executive Departments and Administration to which was referred SB 15,

AN ACT relative to ratification of amendments to the state building code. Having considered the same,

report the same with the following amendment, and the recommendation that the bill OUGHT TO PASS WITH AMENDMENT.

Rep. Jaci Grote

FOR THE COMMITTEE

COMMITTEE REPORT

Committee:	Executive Departments and Administration
Bill Number:	SB 15
Title:	relative to ratification of amendments to the state building code.
Date:	April 27, 2021
Consent Calendar:	CONSENT
Recommendation:	OUGHT TO PASS WITH AMENDMENT 2021-1155h

STATEMENT OF INTENT

This bill ratifies amendments to the State Building Code reviewed and approved by the Building Code Review Board in 2015, 2016, and 2019. It also ratifies amendments to the State Fire Code adopted by the State Fire Marshal and Board of Fire Control on January 15, 2020. The amendment ratifies additional amendments to both codes adopted in 2020 and early 2021. The amendment harmonizes SB 15 with HB 72 that passed the House on the consent calendar on March 7th, 2021.

Vote 17-0.

Rep. Jaci Grote
FOR THE COMMITTEE

Original: House Clerk
Cc: Committee Bill File

CONSENT CALENDAR

Executive Departments and Administration

SB 15, relative to ratification of amendments to the state building code. **OUGHT TO PASS WITH AMENDMENT.**

Rep. Jaci Grote for Executive Departments and Administration. This bill ratifies amendments to the State Building Code reviewed and approved by the Building Code Review Board in 2015, 2016, and 2019. It also ratifies amendments to the State Fire Code adopted by the State Fire Marshal and Board of Fire Control on January 15, 2020. The amendment ratifies additional amendments to both codes adopted in 2020 and early 2021. The amendment harmonizes SB 15 with HB 72 that passed the House on the consent calendar on March 7th, 2021. **Vote 17-0.**

Amendment to SB 15

1 Amend the title of the bill by replacing it with the following:

2

3 AN ACT relative to ratification of amendments to the state building code and state fire code.

4

5 Amend the bill by replacing all after the enacting clause with the following:

6

7 1 State Building Code; Ratification of Amendments. Pursuant to RSA 155-A:10, IV(b), the
8 general court hereby ratifies the amendments to the state building code, as defined in RSA 155-A:1,
9 approved by the state building code review board from July 10, 2015 through March 11, 2016 and
10 from March 8, 2019 through January 8, 2021, in administrative rules Bcr 300; with the exception of
11 state building code review board Exhibits RE-15-35-18 and RE-15-36-18, which shall not take effect.
12 Further provided that the following amendments shall expire as provided in 2019, 250:4:

13 I. RE-15-33-18, an amendment to International Residential Code (IRC) 2015, table
14 N1102.1.2, relative to climate zone 6, wood frame wall r-value.

15 II. RE-15-37-18, an amendment to IRC 2015, section N1101.5, relative to information on
16 construction documents.

17 III. RE-15-39-18, an amendment to IRC 2015, section N1102.1, relative to the building
18 thermal envelope.

19 IV. RE-15-40-18, an amendment to IRC 2015, section N1102.4.1.2, relative to testing.

20 V. RE-15-42-18, an amendment to IRC 2015, section N1103.6, relative to mechanical
21 ventilation.

22 VI. RE-15-43-18, an amendment to IRC 2015, table N1102.1.2, relative to insulation and
23 fenestration requirements by component.

24 2 State Fire Code; Ratification of Amendments.

25 I. Pursuant to RSA 153:5, the general court hereby ratifies the amendments to the state fire
26 code adopted by the state fire marshal and the state board of fire control on January 15, 2020.

27 II. Pursuant to RSA 153:5, the general court hereby ratifies exhibits RE 20-04-15, RE 20-05-
28 15, RE 20-06-15, and RE 20-07-15 adopted by the board of fire control and the state fire marshal on
29 December 16, 2020, and approved by the commissioner of safety on January 21, 2021.

30 3 Effective Date. This act shall take effect upon its passage.

Amendment to SB 15
- Page 2 -

2021-1155h

AMENDED ANALYSIS

This bill ratifies certain amendments to the state building code and state fire code adopted by the fire marshal and state building code review board in 2015, 2016, 2019, 2020, and 2021.

Archived: Thursday, May 6, 2021 8:35:15 AM
From: [Miriam Simmons](#)
Sent: Thursday, May 6, 2021 8:30:25 AM
To: [Miriam Simmons](#)
Subject: FW: SB 15 committee report
Response requested: No
Importance: Normal

From: Jaci Grote <Jaci.Grote@leg.state.nh.us>
Sent: Wednesday, April 28, 2021 5:39 PM
To: Carol McGuire <mcguire4house@gmail.com>
Subject: Re: SB 15 committee report

Thanks Carol

Jaci Grote

Representative Jaci Grote

Rockingham District 24 - Rye and New Castle

Executive Departments and Administration

603-235-6287

From: Carol McGuire <mcguire4house@gmail.com>
Sent: Wednesday, April 28, 2021 11:54 AM
To: Jaci Grote <Jaci.Grote@leg.state.nh.us>
Cc: Miriam Simmons <miriam.simmons@leg.state.nh.us>; Pam Smarling <Pam.Smarling@leg.state.nh.us>
Subject: Re: SB 15 committee report

Jaci,
I fixed the reference to HB 72, not HB 15.
Carol

SB 15 – relative to the ratification of amendments to the state building codes

4/27/2021 Consent – yes

Committee Vote OTPA – 17-0

This Senate bill ratifies recent amendments reviewed and approved by the Building Code

Review Board. The amendment harmonizes SB 15 with **HB72** that passed the House on the

consent calendar on March 7th , 2021. **SB 15**, as amended, ratifies the amendments reviewed

and approved by the Building Code Review Board and the State Board of Fire Control as of January 15, 2020.

REPRESENTATIVE GROTE for the committee

On Wed, Apr 28, 2021 at 11:18 AM Jaci Grote <Jaci.Grote@leg.state.nh.us> wrote:

|

HOUSE COMMITTEE REPORT

SB 15 – relative to the ratification of amendments to the state building codes

4/27/2021 Consent – yes

OTPA – 17-0

Committee Vote

This Senate bill ratifies recent amendments reviewed and approved by the Building Code Review Board. The amendment harmonizes SB 15 with HB15 that passed the House on the consent calendar on March 7th, 2021. HB 15, as amended, ratifies the amendments reviewed and approved by the Building Code Review Board and the State Board of Fire Control as of January 15, 2020.

REPRESENTATIVE GROTE

Voting Sheets

HOUSE COMMITTEE ON ED+A

EXECUTIVE SESSION ON HB SB # 15

BILL TITLE: RELATIVE TO RATIFICATION OF AMENDMENTS TO THE STATE BUILDING CODE

DATE: 4-27-21

LOB ROOM: 206-208

MOTION: (Please check one box)

- OTP ITL Retain (1st year) Adoption of Amendment # 2021-~~1155H~~ 1155H (if offered)
- Interim Study (2nd year)

Moved by Rep. GROTE Seconded by Rep. MEGUIRE Vote: 17-0

MOTION: (Please check one box)

- OTP OTP/A ITL Retain (1st year) Adoption of Amendment # 20 (if offered)
- Interim Study (2nd year)

Moved by Rep. GROTE Seconded by Rep. GOLEB Vote: 17-0

MOTION: (Please check one box)

- OTP OTP/A ITL Retain (1st year) Adoption of Amendment # _____ (if offered)
- Interim Study (2nd year)

Moved by Rep. _____ Seconded by Rep. _____ Vote: _____

MOTION: (Please check one box)

- OTP OTP/A ITL Retain (1st year) Adoption of Amendment # _____ (if offered)
- Interim Study (2nd year)

Moved by Rep. _____ Seconded by Rep. _____ Vote: _____

CONSENT CALENDAR? Yes _____ No

Minority Report? _____ Yes _____ No If yes, author, Rep.: _____ Motion: _____

Respectfully submitted, Rep. [Signature], Clerk



2021 SESSION

Executive Departments and Administration

Bill #: SB 15 Motion: OTP/A AM #: 1155H Exec Session Date: 4-27-21

<u>Members</u>	<u>YEAS</u>	<u>Nays</u>	<u>NV</u>
McGuire, Carol M. Chairman	X		
Roy, Terry Vice Chairman	X		
Sytek, John Clerk	X		
Pearson, Stephen C.			
Yakubovich, Michael	X		
Lekas, Tony	X		
Alliegro, Mark C.	X		
Bailey, Glenn	X		
Lanzara, Tom E.	X		
Santonastaso, Matthew	X		
Goley, Jeffrey P.	X		
Schuett, Dianne E.	X		
Judy, Jean L.	X		
Schmidt, Peter B.	X		
Schultz, Kristina M.	X		
Fellows, Sallie D.	X		
Fontneau, Timothy J. <i>GRASSIE</i>	X		
Grote, Jaci L.	X		
O'Brien, Michael B.			
TOTAL VOTE:			

17-0



2021 SESSION

Executive Departments and Administration

Bill #: SB 15 Motion: ADOPT AMENDMENT AM #: 1155H 0115H Exec Session Date: 4-27-21

<u>Members</u>	<u>YEAS</u>	<u>Nays</u>	<u>NV</u>
McGuire, Carol M. Chairman	X		
Roy, Terry Vice Chairman	X		
Sytek, John Clerk	X		
Pearson, Stephen C.			
Yakubovich, Michael	X		
Lekas, Tony	X		
Alliegro, Mark C.	X		
Bailey, Glenn	X		
Lanzara, Tom E.	X		
Santonastaso, Matthew	X		
Goley, Jeffrey P.	X		
Schuett, Dianne E.	X		
Jeudy, Jean L.	X		
Schmidt, Peter B.	X		
Schultz, Kristina M.	X		
Fellows, Sallie D.	X		
Fontneau, Timothy J. <u>GRASSIE</u>	X		
Grote, Jaci L.	X		
O'Brien, Michael B.			
TOTAL VOTE:			

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2021-1155h

AMENDED ANALYSIS

This bill ratifies certain amendments to the state building code and state fire code adopted by the fire marshal and state building code review board in 2015, 2016, 2019, 2020, and 2021.

UNAPPROVED

Hearing Minutes

HOUSE COMMITTEE ON EXECUTIVE DEPARTMENTS AND ADMINISTRATION

PUBLIC HEARING ON SB 15

BILL TITLE: relative to ratification of amendments to the state building code.

DATE: March 24, 2021

LOB ROOM: LOB Hybrid **Time Public Hearing Called to Order:** 10:45 a.m.

Time Adjourned: 11:00 a.m.

Committee Members: Reps. McGuire, Roy, Sytek, S. Pearson, T. Leka, Alliegro, Bailey, Lanzara, Santonastaso, Goley, Schuett, Jeudy, P. Schmidt, Schultz, Fellows, Fontneau, Grote and O'Brien ~~Yakubovich~~

Bill Sponsors:
Sen. Carson

TESTIMONY

* Use asterisk if written testimony and/or amendments are submitted.

***Sen. Carson, sponsor, introduced the bill** and said it ratified certain amendments to the state fire code (FC) and the state building code (BC). The legislature must approve such amendments. These changes had been incorporated into last year's omnibus bill which got vetoed.

Paul Parisi, state Fire Marshal (FM) spoke in support. He said that such amendments expire in 12 months if not ratified by the legislature. He said that these had been re-ratified and that an amendment was needed to incorporate 4 exhibits (from the Board of Fire Control) which had been approved by the Commissioner of Safety. Also, the BC would need an amendment regarding "tiny houses" (Appendix Q).

- There were questions regarding the interaction of HB 72 and this Senate bill, SB 15.

Ari Pollack, an attorney with Gallagher, Callahan and Gartrell and lobbyist for the Home Builders Association, said that the Home Builders Association is in support of this bill and the amendments including Appendix Q which he said filled a gap in the code.

Hearing adjourned at 11:00 a.m.

Respectfully submitted by,
Rep. John Sytek
Committee Clerk

March 24, 2021

SB 15 relative to ratification of amendments to the state building code. (10:45 AM/11:00 AM) The entire ED&A Committee was present except for Rep. Yakubovich who was absent.

Sen. Carson, sponsor, introduced the bill and said it ratified certain amendments to the state fire code (FC) and the state building code (BC). The legislature must approve such amendments.

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House Remote Testify

Executive Departments and Administration Committee Testify List for Bill SB15 on 20

Support: 8 Oppose: 0 Neutral: 0 Total to Testify: 3

[Export to Excel](#)

<u>Name</u>	<u>City, State</u> <u>Email Address</u>	<u>Title</u>	<u>Representing</u>	<u>Position</u>	<u>Testifying</u>	<u>S</u>
Pollack, Ari	Concord, NH pollack@gcglaw.com	A Lobbyist	NH Homebuilders	Support	Yes (2m)	3,
Parisi, Paul	SALEM, NH paul.j.parisi@dos.nh.gov	State Agency Staff	NH State Fire Marshal's Office	Support	Yes (2m)	3,
Carson, Sharon	Londonderry, NH deborah.chroniak@leg.state.nh.us	An Elected Official	Senate District 14 - PRIME SPONSOR	Support	Yes (0m)	3,
Abbott, Gary	Bow, NH gabbott@agcnh.org	A Lobbyist	Associated General Contractors of NH	Support	No	3,
Hope, Lucinda	Tilton, NH lmhope46@gmail.com	A Member of the Public	Myself	Support	No	3,
DeMark, Richard	Meredith, NH demarknh114@gmail.com	A Member of the Public	Myself	Support	No	3,
Fordey, Nicole	Litchfield, NH nikkif610@gmail.com	A Member of the Public	Myself	Support	No	3,
Larson, Ruth	Alton, NH ruthlarson@msn.com	A Member of the Public	Myself	Support	No	3,

Testimony



Robert L. Quinn
Commissioner

State of New Hampshire

DEPARTMENT OF SAFETY

Division of Fire Safety

Office of the State Fire Marshal

Office: 110 Smokey Bear Boulevard, Concord, NH 03301

Mailing Address: 33 Hazen Drive, Concord, NH 03305

Telephone: 603-223-4289 • **Fax:** 603-223-4294

www.nh.gov/firesafety



Paul J. Parisi
State Fire Marshal

LEGISLATIVE POSITION NH DEPARTMENT OF SAFETY

SB 15: Relative to ratification of amendments of the state fire and building codes

LSR 21-1061

Committee: Executive Departments and Administration

Position: SUPPORT

Date: March 23, 2021

Dear Honorable Members of the Committee:

Senate Bill 15 would ratify the actions taken by the Building Code Review Board (BCRB) and the Board of Fire Control (BFC).

This bill, as written, is brought forward using the same language as was contained in HB 1234 in the 2020 legislative session. That bill, an omnibus bill with many provisions, was adopted by the House and Senate but vetoed by the Governor on July 29, 2020. As you know, the amendments that are voted upon favorably by the Board of Fire Control expire after 12 months if not ratified by the general court. Whereas the Governor vetoed HB 1234 last year, the BFC's amendments from January 15, 2020 expired in January. However, the BFC took the amendments up again, as well as a couple others that were voted upon after January 15, 2020, at their December 16, 2020 meeting.

Therefore, I would respectfully suggest the following amendment:

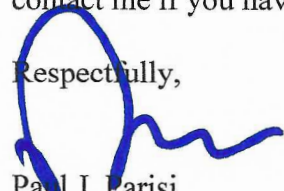
“2. State Fire Code; Ratification of Amendments. Pursuant to RSA 153:5, the general court hereby ratifies exhibits RE 20-04-15, RE 20-05-15, RE 20-06-15, and RE 20-07-15 adopted by the Board of Fire Control and the State Fire Marshal on December 16, 2020 and approved by the Commissioner of Safety on January 21, 2021”.

I have attached the exhibits that were adopted on December 16 by the Board, and I would be happy to address or explain any questions anyone may have on them during the hearing.

Incidentally, House Bill 72, which was introduced by Chair McGuire during this session and contains the same language, has already been amended to include this language. That bill is in the Senate now.

Thank you for the opportunity to testify, and for your consideration. Please do not hesitate to contact me if you have any questions.

Respectfully,

A handwritten signature in blue ink, appearing to read "Paul J. Parisi". The signature is stylized with a large, circular initial "P" and a wavy line extending to the right.

Paul J. Parisi
State Fire Marshal

ATTACHMENTS

Archived: Wednesday, April 7, 2021 2:25:26 PM
From: [Parisi, Paul](#)
Sent: Tuesday, March 23, 2021 7:59:46 AM
To: ~House Executive Departments and Administration
Subject: NH House Remote Testify: 10:45 am - SB15 in House Executive Departments and Administration
Response requested: No
Importance: Normal
Attachments:
RE 20-04-15 signed.pdf ;RE 20-05-15 signed.pdf ;RE 20-06-15 signed.pdf ;RE 20-07-15 signed.pdf ;FMO Position Paper - SB 15 - BFC Amendments.pdf ;

Good morning,

Attached please find a position paper for SB 15 from the Fire Marshal's Office and supporting materials.
Thank you!

Paul



Paul J. Parisi
State Fire Marshal

Department of Safety | Division of Fire Safety
New Hampshire State Fire Marshal's Office (FMO)

Physical: 110 Smokey Bear Boulevard (IPOC), Concord NH
Mailing: 33 Hazen Drive
Concord, NH 03305

Office: 603-223-4289
Direct: 603-223-4293
Fax: 603-223-4294
Arson Hotline: 1-800-400-3526
Email: paul.parisi@dos.nh.gov

"Saving lives and property through education, engineering & enforcement"



Web Site Address: <http://www.nh.gov/safety/divisions/firesafety>
Subscribe to our [list serve](#) to receive public safety notices and press releases.

STATEMENT OF CONFIDENTIALITY:

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Code Amendment Proposal Petition

NH Department of Safety

Office of the State Fire Marshal
Board of Fire Control

33 Hazen Drive, Concord, NH 03305
Phone: 603-223-4289 Fax: 603-223-4294
www.nh.gov/safety/divisions/firesafety

RE-20-06-15

EXHIBIT #: _____

PETITIONER INFORMATION

Name:

Paul Parisi

Date:

December 14, 2020

Representing:

NH State Fire Marshal's Office

Phone:

603-223-4289

Address:

33 Hazen Drive

Fax:

City:

Concord

State:

NH

Zip:

03305

E-Mail Address:

paul.parisi@dos.nh.gov

PROPOSED CODE LANGUAGE

This proposed code amendment (check one):

- Amends (code, edition, section)
 Adopts a new code section (code, edition)
 Repeals (code, edition, section)

Code, Edition, and/or section affected:

2015 NFPA 1

You must provide language for review by the Board of Fire Control. Failure to provide language will invalidate the petition. Please use the following format to show additions and deletions from the code: Strike through = deleted text. Underline and bold = **New Text**

Proposed Language

Amend NFPA 1 Section 2.2 to include NFPA 855, Standard for the Installation of Stationary Energy Storage Systems, 2020 edition.

Code Amendment Proposal Petition

Fire Chief Joseph Mercleri – Petitioner

Question Responses:

1. The code amendment request the addition of NFPA 855 Standard for the Installation of Stationary Energy Storage Systems, 2020 edition to the current State Fire code. Currently the installation of battery energy storage systems is not fully addressed within the fire code which makes it difficult to oversee such projects.
2. The proposed code amendment is needed to protect the health, safety and welfare of the public, the fire responders, the employees and contractors who would reside near and / or respond to the battery energy storage system facility. Of the most recent incidents involving battery storage energy system incidents, I refer you the incident in Surprise Arizona. The incident involved a failure of one of the battery storage containers. During the incident and in proximity of the burning container, several firefighters were injured when the connex box style container exploded. As a result of this incident the City of Phoenix has drafted an amendment to the IFC and NFPA 855 to create a stricter code in an effort to prevent a similar occurrence with these facilities. In addition to this incident, the lithium-ion battery technology used to store electric energy is a new and growing technology. Lithium batteries have the potential breakdown when heated. This breakdown will cause a failure of the internal battery components. Once the battery starts to fail, the membrane separating the chemicals in the battery fails causing an irreversible vent known as "thermal-runaway". Thermal runaway is the catastrophic failure of the lithium-ion battery which, in a battery storage energy system container, can cause adjacent batteries to fail, causing a "domino" effect.
To give you a better understanding of the hazards posed by lithium-ion battery technology, I refer you to an incident that took place near downtown Houston Texas where a railcar transporting lithium-ion batteries exploded. The explosion was so strong it broke windows in nearby homes. The train car was carrying a load of lithium-ion batteries which were to be delivered to a recycling center.
Adopting NFPA 855 would serve to enable both local and State fire code officials the ability to ensure that battery energy storage systems are installed, maintained, stored and recycled in a safe manner.
3. Since the battery energy storage systems technology is relatively new, the technology has far outpaced fire and building code development. The proposed code amendment will integrate NFPA 855 into code references which can then be used by code enforcement officials.
4. No, the code amendment is not necessary to correct unique geographic or climate conditions within New Hampshire.
5. No, the code amendment is not needed to eliminate conflicting, obsolete or duplicate code provisions.
6. Yes, the code amendment addresses the installation and use of new emerging technologies as well as the use of new lithium-battery technology. The code amendment will address the installation of the emerging battery energy storage systems.

7. I do not believe that the proposed code amendment will create an adverse fiscal impact or savings for the general public, the construction industry, local and state governments.

Exhibit RE 20-01-15 Revision #1

September 14, 2020

Proposed language:

Amend NFPA 1 Section 2.2 to include NFPA 855, Standard for the Installation of Stationary Energy Storage Systems, 2020 edition.

Amend NFPA 1 Chapter 52 to include a new section as follows:

Section 52.1.1

The design, installation, operation, inspection, and maintenance of all stationary energy storage systems shall comply with this chapter and NFPA 855, Standard for the Installation of Stationary Energy Storage Systems, 2020 edition.

PETITION CRITERIA

Attach to this petition written responses to the following questions. If needed, include in the response an explanation as to why a question does not apply to your proposed code petition. The Board may reject an incomplete petition.

Questions:

- 1. Is your proposed code amendment necessary to correct any unforeseen or probable outcomes resulting from the application of a code section, and if so, why?
- 2. Is your proposed code amendment needed to protect the health, safety, welfare, comfort and/or security of occupants and the public, and if so, why?
- 3. Does your proposed code amendment correct inadequate application by a code section to a method, material, or design, and if so, why?
- 4. Is your proposed code amendment necessary to correct unique geographic or climatic conditions within New Hampshire, and if so, why?
- 5. Is your proposed code amendment needed to eliminate conflicting, obsolete, or duplicative code provisions or standards among New Hampshire-adopted codes, statutes, or regulations, and if so, why?
- 6. Does your proposed code amendment provide for the use of unique or emerging technologies or promote advances in construction methods, devices, materials and techniques, and if so, how?
- 7. Does your proposed code amendment create any adverse fiscal impact or cost savings for the general public, the construction industry, local and state governments, or small businesses? If so, please describe the added or reduced cost of the proposed code amendment, the adverse fiscal impact or cost savings in relation to the current NH State Fire Code, and any standards of measure used to arrive at the result given.

PETITIONER'S SIGNATURE

Signature: _____

Date: 12/14/2020

Copyright Notice: By signing this proposed code amendment petition, I understand and acknowledge that the work contained in this petition is original, or if not original, I have the right to copy the work. By signing this work, I understand that any rights I may have in this work, including any form of derivative works and compilations, are assigned to the N.H. Board of Fire Control. I also understand that I do not retain or acquire any rights once this work is used in an NH Board of Fire Control publication.

APPLICATION PROCESSING

The Office of the State Fire Marshal reviews all applications and will determine if the application is in conflict with any existing law or rule. The division will return any application found to be in conflict with any existing statute or rule along with the specific reasons for the returned application.

RE-20-06-15

Not Approved: Approved: Approved with Modifications:

Hearing Date: 12-16-2020 Voting Date: 12-16-2020

Chair's Signature: Norman W. Skantze Date: 1-20-2021

Printed Name: Norman W. Skantze

Fire Marshal's Signature: [Signature] Date: 1-20-2021

Printed Name: Paul J. Parisi

Commissioner's Signature: _____ Date: _____

Printed Name: _____

PETITION CRITERIA

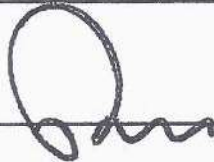
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3. Does your proposed code amendment correct inadequate application by a code section to a method, material, or design, and if so, why?
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5. Is your proposed code amendment needed to eliminate conflicting, obsolete, or duplicative code provisions or standards among New Hampshire-adopted codes, statutes, or regulations, and if so, why?
6. Does your proposed code amendment provide for the use of unique or emerging technologies or promote advances in construction methods, devices, materials and techniques, and if so, how?
7. Does your proposed code amendment create any adverse fiscal impact or cost savings for the general public, the construction industry, local and state governments, or small businesses? If so, please describe the added or reduced cost of the proposed code amendment, the adverse fiscal impact or cost savings in relation to the current NH State Fire Code, and any standards of measure used to arrive at the result given.

PETITIONER'S SIGNATURE

Signature: _____



Date: 12/14/2020

Copyright Notice: By signing this proposed code amendment petition, I understand and acknowledge that the work contained in this petition is original, or if not original, I have the right to copy the work. By signing this work, I understand that any rights I may have in this work, including any form of derivative works and compilations, are assigned to the N.H. Board of Fire Control. I also understand that I do not retain or acquire any rights once this work is used in an NH Board of Fire Control publication.

APPLICATION PROCESSING

The Office of the State Fire Marshal reviews all applications and will determine if the application is in conflict with any existing law or rule. The division will return any application found to be in conflict with any existing statute or rule along with the specific reasons for the returned application.

Not Approved: Approved: Approved with Modifications:

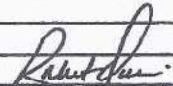
Hearing Date: _____ Voting Date: _____

Chair's Signature: _____ Date: _____

Printed Name: _____

Fire Marshal's Signature: _____ Date: _____

Printed Name: _____

Commissioner's Signature:  Date: 01-21-2021

Printed Name: ROBERT L. QUINN

Code Amendment Proposal Petition

NH Department of Safety
Office of the State Fire Marshal
Board of Fire Control
33 Hazen Drive, Concord, NH 03305
Phone: 603-223-4289 Fax: 603-223-4294
www.nh.gov/safety/divisions/firesafety

RE-20-07-15
EXHIBIT #: _____

PETITIONER INFORMATION

Name:

Paul Parisi

Date:

December 14, 2020

Representing:

NH State Fire Marshal's Office

Phone:

603-223-4289

Address:

33 Hazen Drive

Fax:

City:

Concord

State:

NH

Zip:

03305

E-Mail Address:

paul.parisi@dos.nh.gov

PROPOSED CODE LANGUAGE

This proposed code amendment (check one):

- Amends (code, edition, section)
 Adopts a new code section (code, edition)
 Repeals (code, edition, section)

Code, Edition, and/or section affected:

NFPA 1, 2015 edition
NFPA 31, 2011 edition

You must provide language for review by the Board of Fire Control. Failure to provide language will invalidate the petition. Please use the following format to show additions and deletions from the code: Strike through = deleted text. Underline and bold = **New Text**

Proposed Language

see attached



Robert L. Quinn
Commissioner

State of New Hampshire

DEPARTMENT OF SAFETY

Division of Fire Safety

Office of the State Fire Marshal

Office: 110 Smokey Bear Boulevard, Concord, NH 03301

Mailing Address: 33 Hazen Drive, Concord, NH 03305

Telephone: 603-223-4289 • Fax: 603-223-4294

www.nh.gov/firesafety



Paul J. Parisi
State Fire Marshal

Board of Fire Control Exhibit for Oil Burner Permit

1. This proposed code amendment moves the existing oil burning equipment operation permit language from SAF-C 6000 to SAF-FMO 300. It also changes the scope of the permit from oil burning equipment operation to oil burner equipment installation, to be more in line with the existing NFPA 1 and 31.
2. This proposed code amendment continues to provide a method for permitting the installation of oil burning equipment.
3. This code amendment continues the practice of eliminating splices in concealed piping installations.
4. No.
5. This proposed code amendment moves oil burning equipment permitting language from SAF-C 6000 to SAF-FMO 300.
6. No.
7. This proposed code amendment does not change create any change in fiscal impact from the existing language.

PART Saf-FMO 300 AMENDMENTS TO THE STATE FIRE CODE

Statutory Authority: RSA 153:5

Saf-FMO 301	Purpose
Saf-FMO 302	Scope
Saf-FMO 303	Fire Prevention Code, NFPA 1
Saf-FMO 304	Life Safety Code, NFPA 101
Saf-FMO 305	Fireworks Code, NFPA 1124
Saf-FMO 306	Automotive & Marine Service Station Code, NFPA 30A
Saf-FMO 307	Oil Burning Equipment, NFPA 31

Saf-FMO 301.01 PURPOSE

- (a) The purpose of these rules is to publish the amendments to the state fire code adopted by the board of fire control and the state fire marshal pursuant to Bfc 200.
- (b) Rules that have not been ratified by the Legislature will expire twelve months from the effective date.

Saf-FMO 302.01 SCOPE

- (a) All persons constructing, reconstructing, modifying, maintaining or operating any structure and all owners or occupants of existing structures or premises shall comply with the requirements of the state fire code and codes adopted by reference as defined in RSA 153:1 VI-a, except as modified in Saf-FMO 300.
- (b) All persons installing, modifying, operating or maintaining equipment or processes that are regulated under the provisions of NFPA 1 shall comply with the requirements of the state fire code and codes adopted by reference as defined in RSA 153:1 VI-a, except as modified in Saf-FMO 300.
- (c) All persons processing, handling or storing materials that are regulated under the provisions of the state fire code and codes adopted by reference as defined in RSA 153:1 VI-a, except as modified in Saf-FMO 300.

Saf-FMO 303.01 AMENDMENTS TO THE FIRE PREVENTION CODE

- (a) The following sections of NFPA 1 shall be excluded from incorporation pursuant to these rules:
 - (1) Section 1-10 Board of Appeals;
 - (2) Section 1-13 Certificates of Fitness;
 - (3) Section 10.14.11 Crop Maze;
 - (4) Section 65.2 Fireworks Displays; and
 - (5) NFPA 5000 in its entirety as adopted by reference.

(eff 1/23/2020)

(b) Amend NFPA 1 Section 13.3.2.20.1 to insert the following exception:

“Exception: Detached one and 2-family dwellings are exempt from the automatic fire sprinkler requirements as set forth in 13.3.2.20.1.”

(eff 1/23/2020)

(c) Amend NFPA 1 Section 2.2 to include NFPA 914, Code for Fire Protection of Historic Structures, 2010 edition.

(eff 1/23/2020)

(d) Amend NFPA 1 Section 2.2 to include NFPA 1124, Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles, 2006 edition subject to the exceptions and amendments in Saf-FMO 305.01.

(eff 1/23/2020)

(e) Amend NFPA 1 Section 20.11.4 to include a new section as follows:

20.11.4.7 Floor assemblies having been protected by an alternative method that has been evaluated as meeting the criteria for alternative methods of construction as outlined in NFPA 1 Section 1.4.1 and/or Section 1.4.2.

(eff 9/8/19, ratified)

(f) Amend NFPA 1 Section 20.11.4 to include a new section as follows:

20.11.4.8 Protection in accordance with NFPA 1 20.11.4 shall not be required until eighteen months after the effective date of New Hampshire’s adoption of NFPA 1, 2015 edition.

(eff 9/8/19, ratified)

(g) Amend NFPA 1 Section 11.12.2 to include a new section as follows:

11.12.2.1.7 Structural Analysis

Photovoltaic systems installed on roofs shall be reviewed and stamped by a NH licensed professional engineer.

(eff 12/5/2019)

(h) Amend NFPA 1 Section 11.12.2.2.2 to read as follows:

Photovoltaic systems installed in one- and two-family dwellings and townhouses shall be in accordance with this section.

Exception: Photovoltaic systems not occupying more than 50% of the aggregate roof area of one- and two-family dwellings only. When applying this exception a minimum 18” ridge setback shall be required unless approved by the AHJ.

(eff 12/5/2019)

(i) Amend NFPA 1 Section 2.2 to include NFPA 79, Electrical Standard for Industrial Machinery, 2015 edition.

(eff 1/23/2020)

(j) Amend NFPA 1 Section 11.5.1.8 to read as follows:

Any person requesting to install a fuel oil burner shall obtain a permit from the local fire official in the locality in which the fuel oil burner is to be installed, or if none, to the state fire marshal’s office. Permit shall be in accordance with NFPA 1 Section 1.12.

(eff x/xx/xxxx)

Saf-FMO 304.01 AMENDMENTS TO THE LIFE SAFETY CODE

(a) Amend NFPA 101 Section 14.7.2.3 and Section 15.7.2.3 by adding the following:

(4) With the approval of the local fire official and in concert with RSA 189:64, at least 4 of the currently required number of fire evacuation drills shall be emergency, all-hazard response drills of which at least one shall test emergency response to an armed assailant. The armed assailant drill may be discussion based. The types of all-hazard drills and exercises and the manner and time in which these activities take place shall be determined by the school in collaboration with local public safety, emergency management, and public health officials. The school may include students and first responders in all-hazard response drills or activities, as appropriate.

(eff 1/23/2020)

(b) Amend NFPA 101 Section 14.4.4 and Section 15.4.4 by adding the following:

(7) "Dispensers installed over carpeted floors in non-sprinklered rooms and spaces shall be permitted, provided that there is an impervious, non-combustible surface of at least two feet by two feet in size installed directly below each dispenser that has been permanently affixed to the floor of the structure".

(eff 1/23/2020)

(c) Amend NFPA 101 Section 24.2.5.1 to read as follows:

(1) "Section 24.2.5.1 Stairs ramps, guards and handrails shall be in accordance with 7.2.2 for stairs, 7.2.2.4 for guards and 7.2.5 for ramps, as modified by 24.2.5.1.1 through 24.2.5.1.3."

(eff 1/23/2020)

(d) Amend NFPA 101 Section 24.2.5 to insert new sections 24.2.5.1.4, 24.2.5.1.5, 24.2.5.1.6 and 24.2.5.1.7 to read as follows:

(1) "Section 24.2.5.1.4 Riser heights not exceeding 209 mm (8 1/4 in) and tread depths of not less than 229mm (9 in.) shall be permitted for stairs in new construction;"

(2) "Section 24.2.5.1.5 Porches, balconies or raised floor surfaces located more than 762 mm (30 in.) above the floor or grade below shall have guards not less than 914mm (36 in.) in height. Open sides of stairs with a total rise of more than 762mm (30 in.) above the floor or grade below shall have a guard not less than 864mm (34 in.) in height measured vertically from the nose of the treads;"

(3) "Section 24.2.5.1.6 Handrails shall be permitted to be on one side of the stairs in new construction when the stair width is 965mm (38 in.);" and

(4) "Section 24.2.5.1.7 New handrails shall be installed to provide a clearance of not less than 2 ¼ inches (57mm) between the handrail and the wall to which it is fastened."

(eff 1/23/2020)

(e) Amend NFPA 101 Section 30.2.2.3.1 and Section 31.2.2.3.1 to insert the following exception:

(1) "Exception: Within any individual dwelling unit stairs complying with Section 24.2.5.1 as amended shall be permitted."

(eff 1/23/2020)

(f) Amend NFPA 101 Section 24.3.5.1 to insert the following exception:

"24.3.5.1 Exception: Detached one and 2-family dwellings are exempt from the automatic fire sprinkler requirements as set forth in 24.3.5.1".

(eff 1/23/2020)

Saf-FMO 305.01 AMENDMENTS TO THE FIREWORKS CODE

(a) The following sections of NFPA 1124 shall be excluded:

(1) Section 6.4.3, 7.4.4, 7.4.4.1, 7.4.4.2 Multiple Tenant Buildings; and

(2) Section 7.5.1.1, 7.5.1.1(1), 7.5.1.1(2) General.

(eff 1/23/2020)

(b) Amend NFPA 1124 Chapter 2 – Referenced Publications to read as follows:

Referenced publications shall align with all documents adopted by reference in RSA 153:1, VI-a and RSA 153:5.

(eff 1/23/2020)

(c) Amend NFPA 1124 Section 6.5.1 and 7.3.6 as follows:

Automatic Fire Sprinkler Systems. An approved automatic fire sprinkler system shall be installed in all consumer firework retail sales and storage facilities. The required fire sprinkler system shall be designed to Extra Hazard Group 1 and installed in accordance with the state fire code.

(eff 1/23/2020)

(d) Amend NFPA 1124 Sections 6.5.1.2, 7.3.9, 7.4.5.3, 7.5.4 as follows:

Fire Alarm System. A fire alarm system shall be provided in all consumer fireworks retail sales and storage facilities. The fire alarm system shall include a public address system and a means for manually activating audible and visible alarm indicating devices located throughout the facility, and shall include smoke detection devices located in all areas and installed in accordance with the state fire code. The public address system shall be installed at a constantly attended location by store staff when the facility or store is occupied.

(eff 1/23/2020)

(e) Amend NFPA 1124 Section 6.5.3 and 7.3.10.2 as follows:

Smoke Control. Smoke and heat vents designed and installed in accordance with the state fire code, shall be provided in all new permissible fireworks retail sales and storage facilities.

(eff 1/23/2020)

Saf-FMO 306.01 AMENDMENTS TO THE CODE FOR MOTOR FUEL DISPENSING FACILITIES AND REPAIR GARAGES

(a) Amend NFPA 30A Section 9.5.6 as follows:

“An approved automatic fire suppression system shall be installed to protect all pump and dispensing areas in all new unattended self-service stations. Activation of the automatic fire suppression system will automatically transmit an alarm to an alarm receiving point approved by the local fire official. A manual fire alarm station that transmits an alarm to the approved alarm receiving point shall be located in immediate proximity to the emergency electrical disconnect specified in Section 6.7.2.”

(eff 1/23/2020)

Saf-FMO 307.01 AMENDMENTS TO THE STANDARD FOR THE INSTALLATION OF OIL BURNING EQUIPMENT

(a) Amend NFPA 31 Section 1.1 to include a new section as follows:

1.1.6 All persons modifying, repairing or maintaining oil burning equipment shall comply with the requirements of this standard.

(b) Amend NFPA 31 Section 8.4 to include a new section as follows:

8.4.8 When an oil supply or return line is installed within buildings under concrete, sub-floors, or earth surfaces the line shall:

(1) Be continuous from the burner to the tank; and

(2) Not contain splices.

(eff x/xx/xxxx)

PETITION CRITERIA

Attach to this petition written responses to the following questions. If needed, include in the response an explanation as to why a question does not apply to your proposed code petition. The Board may reject an incomplete petition.

Questions:

- 1. Is your proposed code amendment necessary to correct any unforeseen or probable outcomes resulting from the application of a code section, and if so, why?
2. Is your proposed code amendment needed to protect the health, safety, welfare, comfort and/or security of occupants and the public, and if so, why?
3. Does your proposed code amendment correct inadequate application by a code section to a method, material, or design, and if so, why?
4. Is your proposed code amendment necessary to correct unique geographic or climatic conditions within New Hampshire, and if so, why?
5. Is your proposed code amendment needed to eliminate conflicting, obsolete, or duplicative code provisions or standards among New Hampshire-adopted codes, statutes, or regulations, and if so, why?
6. Does your proposed code amendment provide for the use of unique or emerging technologies or promote advances in construction methods, devices, materials and techniques, and if so, how?
7. Does your proposed code amendment create any adverse fiscal impact or cost savings for the general public, the construction industry, local and state governments, or small businesses? If so, please describe the added or reduced cost of the proposed code amendment, the adverse fiscal impact or cost savings in relation to the current NH State Fire Code, and any standards of measure used to arrive at the result given.

PETITIONER'S SIGNATURE

Signature:

[Handwritten signature]

Date: 12/14/2020

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APPLICATION PROCESSING

The Office of the State Fire Marshal reviews all applications and will determine if the application is in conflict with any existing law or rule. The division will return any application found to be in conflict with any existing statute or rule along with the specific reasons for the returned application.

RE-20-07-15

Not Approved: [] Approved: [X] Approved with Modifications: []
Hearing Date: 12-16-2020 Voting Date: 12-16-2020
Chair's Signature: [Signature] Date:
Printed Name: Norman W. Skautze
Fire Marshal's Signature: [Signature] Date: 1-20-2021
Printed Name: Paul J. Parisi
Commissioner's Signature: Date:
Printed Name:

PETITION CRITERIA

Attach to this petition written responses to the following questions. If needed, include in the response an explanation as to why a question does not apply to your proposed code petition. The Board may reject an incomplete petition.

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- 3. Does your proposed code amendment correct inadequate application by a code section to a method, material, or design, and if so, why?
- 4. Is your proposed code amendment necessary to correct unique geographic or climatic conditions within New Hampshire, and if so, why?
- 5. Is your proposed code amendment needed to eliminate conflicting, obsolete, or duplicative code provisions or standards among New Hampshire-adopted codes, statutes, or regulations, and if so, why?
- 6. Does your proposed code amendment provide for the use of unique or emerging technologies or promote advances in construction methods, devices, materials and techniques, and if so, how?
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PETITIONER'S SIGNATURE

Signature: _____

Date: 12/14/2020

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APPLICATION PROCESSING

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Not Approved: Approved: Approved with Modifications:

Hearing Date: _____ Voting Date: _____

Chair's Signature: _____ Date: _____

Printed Name: _____

Fire Marshal's Signature: _____ Date: _____

Printed Name: _____

Commissioner's Signature: Date: 01-21-2021

Printed Name: ROBERT L. QUINN

Code Amendment Proposal Petition

NH Department of Safety
Office of the State Fire Marshal
Board of Fire Control
33 Hazen Drive, Concord, NH 03305
Phone: 603-223-4289 Fax: 603-223-4294
www.nh.gov/safety/divisions/firesafety

EXHIBIT # RE-20-04-15

PETITIONER INFORMATION

Name:
Paul Parisi

Date:
12/10/2020

Representing:
State Fire Marshal's Office

Phone:
603-223-4289

Address:
33 Hazen Dr

Fax:

City:
Concord

State:
NH

Zip:
03305

E-Mail Address:
paul.parisi@dos.nh.gov

PROPOSED CODE LANGUAGE

This proposed code amendment (check one):

- Amends (code, edition, section)
- Adopts a new code section (code, edition)
- Repeals (code, edition, section)

Code, Edition, and/or section affected:

2015 NFPA 1, 2015 NFPA 101

You must provide language for review by the Board of Fire Control. Failure to provide language will invalidate the petition. Please use the following format to show additions and deletions from the code: Strike through = deleted text. Underline and bold = **New Text**

Proposed Language

The purpose of this petition is to remove code amendments from Saf-C 6000 and move the amendments to a new rule set known as Saf-FMO. See attached to show the proposed Saf-FMO rules.

PART Saf-FMO 300 AMENDMENTS TO THE STATE FIRE CODE

Statutory Authority: RSA 153:5

Saf-FMO 301	Purpose
Saf-FMO 302	Scope
Saf-FMO 303	Fire Prevention Code, NFPA 1
Saf-FMO 304	Life Safety Code, NFPA 101
Saf-FMO 305	Fireworks Code, NFPA 1124
Saf-FMO 306	Automotive & Marine Service Station Code, NFPA 30A

Saf-FMO 301.01 PURPOSE

- (a) The purpose of these rules is to publish the amendments to the state fire code adopted by the board of fire control and the state fire marshal pursuant to Bfc 200.
- (b) Rules that have not been ratified by the Legislature will expire twelve months from the effective date.

Saf-FMO 302.01 SCOPE

- (a) All persons constructing, reconstructing, modifying, maintaining or operating any structure and all owners or occupants of existing structures or premises shall comply with the requirements of the state fire code and codes adopted by reference as defined in RSA 153:1 VI-a, except as modified in Saf-FMO 300.
- (b) All persons installing, modifying, operating or maintaining equipment or processes that are regulated under the provisions of NFPA 1 shall comply with the requirements of the state fire code and codes adopted by reference as defined in RSA 153:1 VI-a, except as modified in Saf-FMO 300.
- (c) All persons processing, handling or storing materials that are regulated under the provisions of the state fire code and codes adopted by reference as defined in RSA 153:1 VI-a, except as modified in Saf-FMO 300.

Saf-FMO 303.01 AMENDMENTS TO THE FIRE PREVENTION CODE

- (a) The following sections of NFPA 1 shall be excluded from incorporation pursuant to these rules:
 - (1) Section 1-10 Board of Appeals;
 - (2) Section 1-13 Certificates of Fitness;
 - (3) Section 10.14.11 Crop Maze;
 - (4) Section 65.2 Fireworks Displays; and
 - (5) NFPA 5000 in its entirety as adopted by reference.

(b) Amend NFPA 1 Section 13.3.2.20.1 to insert the following exception:

“Exception: Detached one and 2-family dwellings are exempt from the automatic fire sprinkler requirements as set forth in 13.3.2.20.1.”

(c) Amend NFPA 1 Section 2.2 to include NFPA 914, Code for Fire Protection of Historic Structures, 2010 edition.

(d) Amend NFPA 1 Section 2.2 to include NFPA 1124, Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles, 2006 edition subject to the exceptions and amendments in Saf-FMO 305.01.

(e) Amend NFPA 1 Section 20.11.4 to include a new section as follows:
20.11.4.7 Floor assemblies having been protected by an alternative method that has been evaluated as meeting the criteria for alternative methods of construction as outlined in NFPA 1 Section 1.4.1 and/or Section 1.4.2.

(f) Amend NFPA 1 Section 20.11.4 to include a new section as follows:
20.11.4.8 Protection in accordance with NFPA 1 20.11.4 shall not be required until eighteen months after the effective date of New Hampshire’s adoption of NFPA 1, 2015 edition.

(g) Amend NFPA 1 Section 11.12.2 to include a new section as follows:
11.12.2.1.7 Structural Analysis
Photovoltaic systems installed on roofs shall be reviewed and stamped by a NH licensed professional engineer.

(h) Amend NFPA 1 Section 11.12.2.2.2 to read as follows:
Photovoltaic systems installed in one- and two-family dwellings and townhouses shall be in accordance with this section.

Exception: Photovoltaic systems not occupying more than 50% of the aggregate roof area of one- and two-family dwellings only. When applying this exception a minimum 18” ridge setback shall be required unless approved by the AHJ.

(i) Amend NFPA 1 Section 2.2 to include NFPA 79, Electrical Standard for Industrial Machinery, 2015 edition.

Saf-FMO 304.01 AMENDMENTS TO THE LIFE SAFETY CODE

(a) Amend NFPA 101 Section 14.7.2.3 and Section 15.7.2.3 by adding the following:

(4) With the approval of the local fire official and in concert with RSA 189:64, at least 4 of the currently required number of fire evacuation drills shall be emergency, all-hazard response drills of which at least one shall test emergency response to an armed assailant. The armed assailant drill may be discussion based. The types of all-hazard drills and exercises and the manner and time in which these activities take place shall be determined by the school in collaboration with local public safety, emergency management, and public health officials. The school may include students and first responders in all-hazard response drills or activities, as appropriate.

(b) Amend NFPA 101 Section 14.4.4 and Section 15.4.4 by adding the following:

(7) "Dispensers installed over carpeted floors in non-sprinklered rooms and spaces shall be permitted, provided that there is an impervious, non-combustible surface of at least two feet by two feet in size installed directly below each dispenser that has been permanently affixed to the floor of the structure".

(c) Amend NFPA 101 Section 24.2.5.1 to read as follows:

(1) "Section 24.2.5.1 Stairs ramps, guards and handrails shall be in accordance with 7.2.2 for stairs, 7.2.2.4 for guards and 7.2.5 for ramps, as modified by 24.2.5.1.1 through 24.2.5.1.3."

(d) Amend NFPA 101 Section 24.2.5 to insert new sections 24.2.5.1.4, 24.2.5.1.5, 24.2.5.1.6 and 24.2.5.1.7 to read as follows:

(1) "Section 24.2.5.1.4 Riser heights not exceeding 209 mm (8 1/4 in) and tread depths of not less than 229mm (9 in.) shall be permitted for stairs in new construction;"

(2) "Section 24.2.5.1.5 Porches, balconies or raised floor surfaces located more than 762 mm (30 in.) above the floor or grade below shall have guards not less than 914mm (36 in.) in height. Open sides of stairs with a total rise of more than 762mm (30 in.) above the floor or grade below shall have a guard not less than 864mm (34 in.) in height measured vertically from the nose of the treads;"

(3) "Section 24.2.5.1.6 Handrails shall be permitted to be on one side of the stairs in new construction when the stair width is 965mm (38 in.);" and

(4) "Section 24.2.5.1.7 New handrails shall be installed to provide a clearance of not less than 2 1/4 inches (57mm) between the handrail and the wall to which it is fastened."

(e) Amend NFPA 101 Section 30.2.2.3.1 and Section 31.2.2.3.1 to insert the following exception:

(1) "Exception: Within any individual dwelling unit stairs complying with Section 24.2.5.1 as amended shall be permitted."

(f) Amend NFPA 101 Section 24.3.5.1 to insert the following exception:

"24.3.5.1 Exception: Detached one and 2-family dwellings are exempt from the automatic fire sprinkler requirements as set forth in 24.3.5.1".

Saf-FMO 305.01 AMENDMENTS TO THE FIREWORKS CODE

(a) The following sections of NFPA 1124 shall be excluded:

(1) Section 6.4.3, 7.4.4, 7.4.4.1, 7.4.4.2 Multiple Tenant Buildings; and

(2) Section 7.5.1.1, 7.5.1.1(1), 7.5.1.1(2) General.

(b) Amend NFPA 1124 Chapter 2 – Referenced Publications to read as follows:

Referenced publications shall align with all documents adopted by reference in RSA 153:1, VI-a and RSA 153:5.

(c) Amend NFPA 1124 Section 6.5.1 and 7.3.6 as follows:

Automatic Fire Sprinkler Systems. An approved automatic fire sprinkler system shall be installed in all consumer firework retail sales and storage facilities. The required fire sprinkler system shall be designed to Extra Hazard Group 1 and installed in accordance with the state fire code.

(d) Amend NFPA 1124 Sections 6.5.1.2, 7.3.9, 7.4.5.3, 7.5.4 as follows:

Fire Alarm System. A fire alarm system shall be provided in all consumer fireworks retail sales and storage facilities. The fire alarm system shall include a public address system and a means for manually activating audible and visible alarm indicating devices located throughout the facility, and shall include smoke detection devices located in all areas and installed in accordance with the state fire code. The public address system shall be installed at a constantly attended location by store staff when the facility or store is occupied.

(e) Amend NFPA 1124 Section 6.5.3 and 7.3.10.2 as follows:

Smoke Control. Smoke and heat vents designed and installed in accordance with the state fire code, shall be provided in all new permissible fireworks retail sales and storage facilities.

Saf-FMO 306.01 AMENDMENTS TO THE CODE FOR MOTOR FUEL DISPENSING FACILITIES AND REPAIR GARAGES

(a) Amend NFPA 30A Section 9.5.6 as follows:

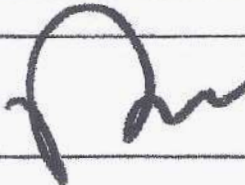
“An approved automatic fire suppression system shall be installed to protect all pump and dispensing areas in all new unattended self-service stations. Activation of the automatic fire suppression system will automatically transmit an alarm to an alarm receiving point approved by the local fire official. A manual fire alarm station that transmits an alarm to the approved alarm receiving point shall be located in immediate proximity to the emergency electrical disconnect specified in Section 6.7.2.”

PETITION CRITERIA

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Questions:

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- 7. Does your proposed code amendment create any adverse fiscal impact or cost savings for the general public, the construction industry, local and state governments, or small businesses? If so, please describe the added or reduced cost of the proposed code amendment, the adverse fiscal impact or cost savings in relation to the current NH State Fire Code, and any standards of measure used to arrive at the result given.

 PETITIONER'S SIGNATURE

Signature: _____

Date: 12/10/2020

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APPLICATION PROCESSING

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RE-20-04-15

Not Approved: Approved: Approved with Modifications:

Hearing Date: 12/16/2020 Voting Date: 12/16/2020

Chair's Signature: Norman W. Skowatke Date: 1-20-2021

Printed Name: Norman W Skowatke

Fire Marshal's Signature:  Date: 1/20/2021

Printed Name: Paul J Pisci

Commissioner's Signature: _____ Date: _____

Printed Name: _____

PETITION CRITERIA

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PETITIONER'S SIGNATURE
Signature: [Handwritten Signature]

Date: 12/10/2020

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Not Approved: [] Approved: [] Approved with Modifications: []
Hearing Date: Voting Date:
Chair's Signature: Date:
Printed Name:
Fire Marshal's Signature: Date:
Printed Name:
Commissioner's Signature: [Handwritten Signature] Date: 01-21-2021
Printed Name: Robert L. Bunker

Code Amendment Proposal Petition

NH Department of Safety
Office of the State Fire Marshal
Board of Fire Control
33 Hazen Drive, Concord, NH 03305
Phone: 603-223-4289 Fax: 603-223-4294
www.nh.gov/safety/divisions/firesafety

RE: 20-05-15
EXHIBIT #: _____

PETITIONER INFORMATION

Name:	Date:	
Paul Parisi	12/10/2020	
Representing:	Phone:	
State Fire Marshal's Office	603-223-4289	
Address:	Fax:	
33 Hazen Drive		
City:	State:	Zip:
Concord	NH	03305
E-Mail Address:		

PROPOSED CODE LANGUAGE

This proposed code amendment (check one):

- Amends (code, edition, section)
- Adopts a new code section (code, edition)
- Repeals (code, edition, section)

Code, Edition, and/or section affected:

2015 edition of NFPA 1 Section 11.12

You must provide language for review by the Board of Fire Control. Failure to provide language will invalidate the petition. Please use the following format to show additions and deletions from the code: Strike through = deleted text. Underline and bold = **New Text**

Proposed Language

11.12.2.1.7 Structural Analysis

Photovoltaic systems installed on roofs shall be reviewed and stamped by a NH licensed structural engineer.

11.12.2.2.2 One-and Two Family Dwellings and Townhouses.

Photovoltaic systems installed in one-and two-family dwellings shall be in accordance with this section.

Exception: Photovoltaic systems not occupying more than 50% of the aggregate roof area of a dwelling. When applying this exception a minimum 18" ridge setback shall be required unless approved by the AHJ.



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11.12 Photovoltaic Systems.

11.12.1

Photovoltaic systems shall be in accordance with Section 11.12 and NFPA 70.

11.12.2 Building-Mounted Photovoltaic Installations.

11.12.2.1 * Marking.

Photovoltaic systems shall be permanently marked as specified in this subsection.

11.12.2.1.1 Main Service Disconnect Marking.

A label shall be permanently affixed to the main service disconnect panel serving alternating current (ac) and direct current (dc) photovoltaic systems. The label shall be red with white capital letters at least $\frac{3}{8}$ in. (19 mm) in height and in a nons serif font, to read: "WARNING: PHOTOVOLTAIC POWER SOURCE." The materials used for the label shall be reflective, weather resistant, and suitable for the environment.

11.12.2.1.2 Circuit Disconnecting Means Marking.

A permanent label shall be affixed adjacent to the circuit breaker controlling the inverter or other photovoltaic system electrical controller serving ac and dc photovoltaic systems. The label shall have contrasting color with capital letters at least $\frac{3}{8}$ in. (10 mm) in height and in a nons serif font, to read: "PHOTOVOLTAIC DISCONNECT." The label shall be constructed of durable adhesive material or other approved material.

11.12.2.1.3 * Conduit, Raceway, Enclosure, Cable Assembly, and Junction Box Markings.

Marking shall be required on all interior and exterior dc conduits, raceways, enclosures, cable assemblies, and junction boxes.

11.12.2.1.3.1 Marking Locations.

Marking shall be placed on all dc conduits, raceways, enclosures, and cable assemblies every 10 ft (3048 mm), at turns, and above and below penetrations. Marking shall be placed on all dc combiner and junction boxes.

11.12.2.1.3.2 * Marking Content and Format.

Marking for dc conduits, raceways, enclosures, cable assemblies, and junction boxes shall be red with white lettering with minimum $\frac{3}{8}$ in. (10 mm) capital letters in a nons serif font, to read: "WARNING: PHOTOVOLTAIC POWER SOURCE." Marking shall be reflective, weather resistant, and suitable for the environment.

11.12.2.1.4 Secondary Power Source Markings.

Where photovoltaic systems are interconnected to battery systems, generator backup systems, or other secondary power systems, additional signage acceptable to the AHJ shall be required indicating the location of the secondary power source shutoff switch.

11.12.2.1.5 Installer Information.

Signage, acceptable to the AHJ, shall be installed adjacent to the main disconnect indicating the name and emergency telephone number of the installing contractor.

11.12.2.1.6 * Inverter Marking.

Markings shall not be required for inverters.

11.12.2.2 Access, Pathways, and Smoke Ventilation.

11.12.2.2.1 General.

Access and spacing requirements shall be required to provide emergency access to the roof, provide pathways to specific areas of the roof, provide for smoke ventilation opportunity areas, and to provide emergency egress from the roof.

11.12.2.2.1.1 Exceptions.

The AHJ shall be permitted to grant exceptions where access, pathway, or ventilation requirements are reduced due to any of the following circumstances:

- (1) Proximity and type of adjacent exposures
- (2) Alternative access opportunities, as from adjoining roofs
- (3) Ground level access to the roof
- (4) Adequate ventilation opportunities beneath photovoltaic module arrays
- (5) Adequate ventilation opportunities afforded by module set back from other rooftop equipment
- (6) Automatic ventilation devices
- (7) New technologies, methods, or other innovations that ensure adequate fire department access, pathways, and ventilation opportunities

11.12.2.2.1.2 Pitch.

Designation of ridge, hip, and valley shall not apply to roofs with 2-in-12 or less pitch.

11.12.2.2.1.3 Roof Access Points.

Roof access points shall be defined as areas where fire department ladders are not placed over openings (windows or doors), are located at strong points of building construction, and are in locations where they will not conflict with overhead obstructions (tree limbs, wires, or signs).

11.12.2.2.2 One- and Two-Family Dwellings and Townhouses.

Photovoltaic systems installed in one- and two-family dwellings and townhouses shall be in accordance with this section.

11.12.2.2.2.1 Access and Pathways.

11.12.2.2.2.1.1 Hip Roof Layouts.

Photovoltaic modules shall be located in a manner that provides a 3 ft (914 mm) wide clear access pathway from the eave to the ridge of each roof slope where the photovoltaic modules are located. The access pathway shall be located at a structurally strong location of the building, such as a bearing wall.

Exception: The requirement of 11.12.2.2.2.1.1 shall not apply where adjoining roof planes provide a 3 ft (914 mm) wide clear access pathway.

11.12.2.2.2.1.2 Single Ridge Layouts.

Photovoltaic modules shall be located in a manner that provides two 3 ft (914 mm) wide access pathways from the eave to the ridge on each roof slope where the modules are located.

11.12.2.2.2.1.3 Hip and Valley Layouts.

Photovoltaic modules shall be located no closer than $1\frac{1}{2}$ ft (457 mm) to a hip or valley if modules are to be placed on both sides of the hip or valley. Where modules are located

on only one side of a hip or valley of equal length, the photovoltaic modules shall be allowed to be placed directly adjacent to the hip or valley.

11.12.2.2.2 Ridge Setback.

Photovoltaic modules shall be located not less than 3 ft (914 mm) below the ridge.

11.12.2.2.3 Buildings Other Than One- and Two-Family Dwellings and Townhouses.

Photovoltaic energy systems installed in any building other than one- and two-family dwellings and townhouses shall be in accordance with this section. Where the AHJ determines that the roof configuration is similar to a one- and two-family dwelling or townhouse, the AHJ shall allow the requirements of 11.12.2.2.2.

11.12.2.2.3.1 Access.

A minimum 4 ft (1219 mm) wide clear perimeter shall be provided around the edges of the roof for buildings with a length or width of 250 ft (76.2 m) or less along either axis. A minimum 6 ft (1829 mm) wide clear perimeter shall be provided around the edges of the roof for buildings having length or width greater than 250 ft (76.2 m) along either axis.

11.12.2.2.3.2 Pathways.

Pathways shall be established as follows:

- (1) Pathways shall be over areas capable of supporting the live load of fire fighters accessing the roof.
- (2) Centerline axis pathways shall be provided in both axes of the roof.
- (3) Centerline axis pathways shall run where the roof structure is capable of supporting the live load of fire fighters accessing the roof.
- (4) Pathways shall be in a straight line not less than 4 ft (1219 mm) clear to skylights, ventilation hatches, and roof standpipes.
- (5) Pathways shall provide not less than 4 ft (1219 mm) clear around roof access hatches with at least one not less than 4 ft (1219 mm) clear pathway to the parapet or roof edge.

11.12.2.2.3.3 Smoke Ventilation.

Ability for fire department smoke ventilation shall be provided in accordance with this section.

11.12.2.2.3.3.1 Maximum Array.

Arrays of photovoltaic modules shall be no greater than 150 ft (45.7 m) × 150 ft (45.7 m) in distance in either axis.

11.12.2.2.3.3.2 Ventilation Options.

Ventilation options between array sections shall be one of the following:

- (1) A pathway 8 ft (2438 mm) or greater in width
- (2) A pathway 4 ft (1219 mm) or greater in width and bordering on existing roof skylight or ventilation hatches
- (3) A pathway 4 ft (1219 mm) or greater in width and bordering 4 ft (1219 mm) × 8 ft (2438 mm) venting cutouts options every 20 ft (6096 mm) on alternating sides of the pathway

11.12.2.2.4 Location of Direct Current (DC) Conductors.

11.12.2.2.4.1

Exterior-mounted dc conduits, wiring systems, and raceways for photovoltaic circuits shall be located as close as possible to the ridge, hip, or valley and from the hip or valley as directly as possible to an outside wall to reduce trip hazards and maximize ventilation opportunities.

11.12.2.2.4.2

Conduit runs between subarrays and to dc combiner boxes shall be designed to take the shortest path from the array to the dc combiner box.

11.12.2.2.4.3

DC combiner boxes shall be located so that conduit runs are minimized in the pathways between arrays.

11.12.2.2.4.4

DC wiring shall be run in metallic conduit or raceways where located within enclosed spaces in a building.

11.12.2.2.4.4.1

Where dc wiring is run perpendicular or parallel to load-bearing members, a minimum 10 in. (254 mm) space below roof decking or sheathing shall be maintained.

11.12.3 Ground-Mounted Photovoltaic System Installations.

Ground-mounted photovoltaic systems shall be installed in accordance with 11.12.3.1 through 11.12.3.3.

11.12.3.1* Clearances.

A clear area of 10 ft (3048 mm) around ground-mounted photovoltaic installations shall be provided.

11.12.3.2* Noncombustible Base.

A gravel base or other non-combustible base acceptable to the AHJ shall be installed and maintained under and around the installation.

11.12.3.3* Security Barriers.

Fencing, skirting, or other suitable security barriers shall be installed when required by the AHJ.

MODIFICATIONS:

Exhibit RE 19-03-15 Amendment

November 20, 2019

11.12.2.1.7 Structural Analysis

Photovoltaic systems installed on roofs shall be reviewed and stamped by a NH licensed professional engineer.

11.12.2.2.2 One-and Two-Family Dwellings and Townhouses.

Photovoltaic systems installed in one- and two-family dwellings and townhouses shall be in accordance with this section.

Exception: Photovoltaic systems not occupying more than 50% of the aggregate roof area of one and two-family dwellings only. When applying this exception a minimum 18" ridge setback shall be required unless approved by the AHJ.

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Date: _____

12/10/2020

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RE-20-05-15

Not Approved: Approved: Approved with Modifications:

Hearing Date: 12-16-2020 Voting Date: 12-16-2020

Chair's Signature: Norman W. Skantze Date: 1-20-2021

Printed Name: Norman W. Skantze

Fire Marshal's Signature: Paul J. Paasi Date: 1-20-2021

Printed Name: Paul J. Paasi

Commissioner's Signature: _____ Date: _____

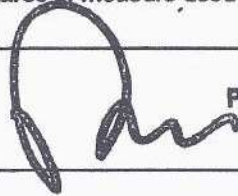
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Hearing Date: _____ Voting Date: _____
Chair's Signature: _____ Date: _____
Printed Name: _____
Fire Marshal's Signature: _____ Date: _____
Printed Name: _____
Commissioner's Signature: Robert L. Quinn Date: 01-21-2021
Printed Name: ROBERT L. QUINN

Bill as
Introduced

SB 15 - AS INTRODUCED

2021 SESSION

21-1061

05/10

SENATE BILL **15**

AN ACT relative to ratification of amendments to the state building code.

SPONSORS: Sen. Carson, Dist 14

COMMITTEE: Executive Departments and Administration

ANALYSIS

This bill ratifies certain amendments to the state building code and the state fire code.

Explanation: Matter added to current law appears in ***bold italics***.
Matter removed from current law appears [~~in brackets and struckthrough.~~]
Matter which is either (a) all new or (b) repealed and reenacted appears in regular type.

STATE OF NEW HAMPSHIRE

In the Year of Our Lord Two Thousand Twenty One

AN ACT relative to ratification of amendments to the state building code.

Be it Enacted by the Senate and House of Representatives in General Court convened:

1 1 State Building Code; Ratification of Amendments. Pursuant to RSA 155-A:10, IV(b), the
2 general court hereby ratifies the amendments to the state building code, as defined in RSA 155-A:1,
3 approved by the state building code review board from July 10, 2015 through March 11, 2016 and
4 from March 8, 2019 through November 8, 2019, in administrative rules Bcr 300; with the exception
5 of state building code review board Exhibits RE-15-35-18 and RE-15-36-18, which shall not take
6 effect. Further provided that the following amendments shall expire as provided in 2019, 250:4:

7 I. RE-15-33-18, an amendment to International Residential Code (IRC) 2015, table
8 N1102.1.2, relative to climate zone 6, wood frame wall r-value.

9 II. RE-15-37-18, an amendment to IRC 2015, section N1101.5, relative to information on
10 construction documents.

11 III. RE-15-39-18, an amendment to IRC 2015, section N1102.1, relative to the building
12 thermal envelope.

13 IV. RE-15-40-18, an amendment to IRC 2015, section N1102.4.1.2, relative to testing.

14 V. RE-15-42-18, an amendment to IRC 2015, section N1103.6, relative to mechanical
15 ventilation.

16 VI. RE-15-43-18, an amendment to IRC 2015, table N1102.1.2, relative to insulation and
17 fenestration requirements by component.

18 2 State Fire Code; Ratification of Amendments. Pursuant to RSA 153:5, the general court
19 hereby ratifies the amendments to the state fire code adopted by the state fire marshal and the state
20 board of fire control on January 15, 2020.

21 3 Effective Date. This act shall take effect upon its passage.