PROFESSIONAL ENGINEERS and LAND SURVEYORS SECTION MEETING AGENDA **NOVEMBER 6, 2019**

Kopics Board Position. 9:00 a.m. – Board Room 2 **Department of Professional & Occupational Regulation** 9960 Mayland Drive Richmond, Virginia 23233 (804) 367-8514

- 1. Call to Order
- 2. **Emergency Evacuation Procedures**
- 3. Approval of Agenda
- 4. Public Comment Period*
- Signing & Sealing of BMP As-Built Plans Language and DEO Discussion 5.
- Virginia SCC PE Exemption Email from Virginia State Corporation Commission 6. October 7, 2019
 - NTSB Public Meeting of September 24, 2019 Abstract
- PE Application Process Meeting 7.
- Right of Entry, Property, Prescriptive Right of Easements, & Metes and 8. **Bounds Update**
- 9. **NCEES Updates**
- NCEES Resolution Re 10.
- 11. Other Business
- 12. Conflict of Interest /
- 13.

MEETING SCHEDULED FOR PROFESSIONAL ENGINEERS and LAND SURVEYORS – February 4, 2020

genda materials available to the public do not include disciplinary case files or application files pursuant to §54.1-108 of the Code of Virginia.

*Five-minute public comment, per person, with the exception of any open disciplinary or application files. Persons desiring to participate in the meeting and requiring special accommodations or interpretative services should contact the Department at 804) 367-8514 at least ten days prior to the meeting so that suitable arrangements can be made for an appropriate accommodation. The Department fully complies with the Americans with Disabilities Act.

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Public Comment did light of the light of the

and Sealing of As-Built Plan Language and DEQ Discussion



Fwd: FW: VA SCC PE Exemption

1 message

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osbisch, Kathleen <kate.nosbisch@dpor.virginia.gov> b: Bonnie Davis <bonnie.davis@dpor.virginia.gov></bonnie.davis@dpor.virginia.gov></kate.nosbisch@dpor.virginia.gov>	Mon, Oct 7, 2019 at 2:13 PM
Hi Bonnie, Email and attachment for the full board meeting on 11/6, please.	or disositive
Forwarded message From: Steven Bradley <steven.bradley@scc.virginia.gov> Date: Mon, Oct 7, 2019 at 10:55 AM Subject: FW: VA SCC PE Exemption</steven.bradley@scc.virginia.gov>	Mon, Oct 7, 2019 at 2:13 PM
To: kate.nosbisch@dpor.virginia.gov <kate.nosbisch@dpor.virginia.gov></kate.nosbisch@dpor.virginia.gov>	
Kate,	
Good morning. Thanks again for taking my call.	
I have attached the abstract from the NTSB's meeting in September. The exemption record the top of page 4.	
The exemption language in Virginia is shown below.	
§ 54.1-401. Exemptions.	
The following shall be exempted from the provisions of this chapter	
7. Practice of engineering solely as an employee of a corporation engaged in interstate co a public service corporation, by rendering such corporation engineering service in connect subject to regulation by the State Corporation Commission; provided, that corporation employees	tion with its facilities which are

https://law.lis.virginia.gov/vacode/title54.1/chapter4/section54.1-401/

exempt from the provisions of this chapter.

I look forward to hearing from you following your November board meeting. In the meantime, I will forward other information as it becomes available.

service to the public in connection with engineering matters other than in connection with such employment shall not be

Steven Bradley

Director - Division of Utility and Railroad Safety

Virginia State Corporation Commission

804 371-9751

804 387-2783 (cell)



Kate Nosbisch, Hon.

Kathleen R. Nosbisch

Executive Director

ACHADROPOSED OFFICIAL BOARD POSITION.

Sing Philalatt ADA

Sing Cer. Board for Architects, Professional Engineers, Land Surveyors, Certified Interior Designers and Landscape Architects (APELSCIDLA)

Board for Branch Pilots

Board for Professional Soil Scientists, Wetland Professionals, and Geologists

Board for Professional and Occupational Regulation

Auctioneers Board

Boxing, Martial Arts and Professional Wrestling Advisory Board

SERVICE START TO FINISH

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Richmond, VA 23233

804-367-8514

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NATIONAL TRANSPORTATION SAFETY BOARD

Public Meeting of September 24, 2019 (Information subject to editing)

Overpressurization of Natural Gas Distribution System, Explosions, and Fires in Merrimack Valley, Massachusetts **September 13, 2018 NTSB/PAR-19/02**

tale for This is a synopsis from the NTSB's report and does not include the Board's rationale for the conclusions, probable cause, and safety recommendations. NTSB staff is currently making final revisions to the report from which the attached conclusions and safety recommendations have been extracted. The final report and pertinent safety recommendation letters will be distributed to recommendation recipients as soon as possible. The attached information is subject to further review and editing to reflect changes adopted during the Board meeting.

Executive Summary

On September 13, 2018, about 4:00 p.m. local time, a series of structure fires and explosions occurred after high-pressure natural gas was released into a low-pressure natural gas distribution system in the northeast region of the Merrimack Valley in the Commonwealth of Massachusetts. The natural gas distribution system was owned and operated by Columbia Gas of Massachusetts, a subsidiary of NiSource, Inc. Columbia Gas of Massachusetts delivers natural gas to about 325,000 customers in Massachusetts. One person was killed and 22 individuals, including three firefighters, were transported to local hospitals due to injuries; seven other firefighters incurred minor injuries. The fires and explosions damaged 131 structures, including at least 5 homes that were destroyed in the city of Lawrence and the towns of Andover and North Andover. Most of the damage occurred from fires ignited by natural gas-fueled appliances; several of the homes were destroyed by natural gas-fueled explosions. Fire departments from the three municipalities were dispatched to the fires and explosions. First responders initiated the Massachusetts fire-mobilization plan and received mutual aid from neighboring districts in Massachusetts, New Hampshire, and Maine. Emergency management officials had National Grid The accident investigation focused on the following safety issues:

• Adequacy of natural gas regulations

• Project documentation

• Construction

• Construction

• Construction

• Construction United States (the electric utility) shut down electrical power in the area, the state police closed local roads, and freight and passenger railroad operations in the area were suspended. Columbia Gas of Massachusetts shut down the low-pressure natural gas distribution system, affecting 10,894 customers, including some outside the area who had their service shut off as a precaution.

- Risk assessment

- Safety management systems
- Licensed professional engineer approval of natural gas projects
- Emergency response

Findings

- cussion. 1. None of the following were factors in this accident: the training and qualification of the construction crew, the use of alcohol or other drugs, or the condition and operability of the regulators at the Winthrop Avenue regulator station.
- The multiple overpressurization accidents investigated by the National Transportation Safety Board over the past 50 years demonstrate that low-pressure natural gas distribution systems that use only sensing lines and regulators as the means to detect and prevent overpressurization are not optimal to prevent overpressurization accidents.
- A comprehensive and formal risk assessment, such as a failure modes and effects analysis, would have identified the human error that caused the redundant regulators to open and pressurize the system.
- Columbia Gas of Massachusetts' inadequate planning, documentation, and recordkeeping processes led to the omission of the relocation of the sensing lines for the South Union Street project.
- The abandonment of the cast iron main without first relocating the sensing lines led to the system overpressurization, fires, and explosions.
- The delay between the development of the initial project work order and its execution had no impact on this accident.
- The Columbia Gas of Massachusetts constructability review process was not sufficiently 7. robust to detect the omission of a work order to relocate the sensing lines.
- NiSource's engineering risk management processes were deficient. 8.
- Requiring a licensed professional engineer to stamp plans would illustrate that the plans had been approved by an accredited professional with the requisite skills, knowledge, and experience to provide a comprehensive review.
- 10. The municipal public safety answering points had available and ready resources to handle the large number of distress calls requesting emergency services.
- 11. The field radio communications used across fire departments on September 13 lacked adequate interoperability and availability to ensure that emergency responders had efficient means of interdepartmental and intradepartmental communications.

- 12. The communications issues during the September 13 overpressurization illustrate the need for emergency planning for a multi-jurisdictional response.
- 13. The Columbia Gas of Massachusetts incident commander faced multiple competing priorities, such as communicating with affected municipalities, updating the emergency responders, and shutting down the natural gas distribution system, which adversely affected his ability to complete his tasks in a timely manner.
- 14. Columbia Gas of Massachusetts was not adequately prepared with the resources necessary to assist emergency management services with the response to the overpressurization.

Probable Cause

The National Transportation Safety Board determines that the probable cause of the overpressurization of the natural gas distribution system and the resulting fires and explosions was Columbia Gas of Massachusetts' weak engineering management that did not adequately plan, review, sequence, and oversee the construction project that led to the abandonment of a cast iron main without first relocating regulator sensing lines to the new polyethylene main. Contributing to the accident was a low-pressure natural gas distribution system designed and operated without adequate overpressure protection.

Recommendations

New Recommendations

As a result of this investigation, the National Transportation Safety Board makes the following new safety recommendations:

To the Pipeline and Hazardous Materials Safety Administration:

- 1. Revise Title 49 *Code of Federal Regulations* Part 192 to require overpressure protection for low-pressure natural gas distribution systems that cannot be defeated by a single operator error or equipment failure.
- Issue an alert to all low-pressure natural gas distribution system operators of the possibility of a failure of overpressure protection; and the alert should recommend that operators use a failure modes and effects analysis or equivalent structured and systematic method to identify potential failures and take action to mitigate those identified failures.

To the States of Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Florida, Georgia, Idaho, Illinois, Iowa, Kentucky, Louisiana, Maine, Maryland, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New York, North Carolina, Pennsylvania, South Carolina, South Dakota, Texas, Utah,

To the Commonwealth of Massachusetts Executive Office of Public Safety and Security:

4. Develop guidance that includes a component for effective commonwealth of Massachusetts executive Within the commonwealth of Massachusetts Executive Office of Public Safety and Security:

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To NiSource, Inc.:

5. Review your protocols and training for responding to large-scale emergency events, including providing timely information to emergency responders, appropriately assigning NiSource emergency response duties, performing multi-jurisdictional training exercises, and participating cooperatively with municipal emergency management agencies

Classified Recommendations

To the Commonwealth of Massachusetts:

1. Eliminate the professional engineer licensure exemption for public utility work and require a professional engineer's seal on public utility engineering drawings. (P-18-5)

This recommendation is classified *Closed—Acceptable Action*.

To NiSource, Inc.:

Revise the engineering plan and constructability review process across all of Materials c your subsidiaries to ensure that all applicable departments review construction documents for accuracy, completeness, and correctness, and that the documents or plans be sealed by a professional engineer prior to commencing work. (P-18-6) (Urgent)

This recommendation is classified *Closed—Acceptable Action*.

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Makerials contained in this age on strued as regulation or official Board to be construed as regulation of the same of the sam aterials contained in this agenda are proposed topics for discussion. ----- Forwarded message ------

From: Heather Richardson (Basecamp) < notifications@3.basecamp.com>

In 1920, NCEES was created by state licensing boards to facilitate professional licensing mobility and promote uniformity of the licensure process. The MBA Committee of NCEES has sought an agreement between all states, which would communicate that state surveying boards are working together to eliminate that state in a decourage mobility of licensing moderstands that not agree in a state of the state of t same qualifications; therefore, the ROC was written broadly and it is the desire of the committee that it is a non-binding document that attempts to show uniformity by licensure boards.

Since the 100th year anniversary of NCEES is in 2020, the MBA Committee thought it would be a good time to renew the individual board's agreement with the original mission of NCEES.

The committee is requesting that MBAs please submit any board comments and concerns regarding the ROC to me at the email address below by December 2019. It is the committees desire to present the ROC at the 2020 Joint Zone Meeting in Houston, TX and a finalized ROC for the 100 year anniversary of NCEES at the 2020 Annual Meeting in Chicago, IL.

I look forward to your board responses.

Heather Richardson

Heather.Richardson@Arkansas.gov office: (501) 682-2826

DRAFT

RESOLUTION OF COOPERATION

to Facilitate Interstate Licensure for Professional Engineers and Professional Surveyors

- WHEREAS, The National Council of Examiners for Engineering and Surveying (NCEES) is a national organization created by state licensing boards in 1920 to facilitate professional licensing mobility and promote uniformity of the U.S. licensure processes through services for its member licensing boards and licensees; and

 WHEREAS, The NCEES' members are the engineering and surveying licenses.
- 50 states, the District of Columbia, Guam, Northern Mariana Islands, Puerto Rico, and the U.S. Virgin Islands; and
- WHEREAS. The mission of NCEES is to advance licensure for engineers and surveyors in order to safeguard the health, safety, and welfare of the public; and
- WHEREAS, The NCEES Model Law, Model Rules, and Manual of Policy and Position Statements are publications adopted by the membership of NCEES; and
- WHEREAS. The adopted model licensure concepts within these publications set a common standard for licensure mobility and portability among its member boards to facilitate an efficient, streamlined, expedited administrative procedure and approval process; and
- WHEREAS, Alignment of licensure processes and requirements is imperative to facilitate portability of licenses between member boards of NCEES; and
- WHEREAS, Increased licensure portability aligns with government initiatives to diversify economies and support economic growth; and
- WHEREAS, In the absence of licensure portability efforts, barriers to licensure can remain in variable state laws, rules, administrative procedures and approval processes; and
- WHEREAS, Barriers to licensure, whether perceived or real, threaten the health, safety and welfare of the public by the potential for legislative action that erodes professional licensing regulation and may also perpetuate or introduce unnecessary bureaucratic processes that an applicant must undertake, which potentially could become barriers to employment; and
- WHEREAS, It is recognized that some member boards may have challenges, such as staffing or obtaining authority to revise statutes and rules which may impede streamlined processes; and
 - WHEREAS, The NCEES will commemorate 100 years of advancing licensure through the licensing of professional engineers and land surveyors in 2020; therefore, be it

- applicant that meets national standards in the most expeditious manner available within the scope of current state licensing laws and rules; and furthermore be it.

 That signatory boards are committed to identifying and working to remove barriers to licensure portability and mobility which are not the public and not. RESOLVED. That the following signatories agree to license a NCEES Model Law comity
- RESOLVED, That signatory boards are committed to identifying and working to remove the public and not required to fulfill the mission of safeguarding the health, safety,
- andersigned hereby certifies that he/she is the duly qualified member be erve as signatory of this Resolution of Cooperation and meeting. RESOLVED, That signatory boards are committed to work towards revising current licensing laws, rules, and policies to allow for more streamlined approval processes for NCEES Model Law applicants and other qualifying applicants in my state or
 - RESOLVED, That signatory boards are committed to minimizing or eliminating unnecessary

The undersigned hereby certifies that he/she is the duly qualified member board representative to serve as signatory of this Resolution of Cooperation and resolves to complete these efforts by

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Afflict of Interest of Addition of Travel Vouchers

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