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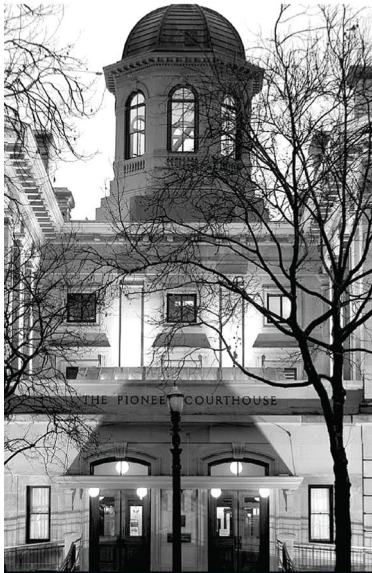
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2024 NFPA TECHNICAL MEETING

HELD ON
THURSDAY, JUNE 20, 2024

CONVENTION CENTER
9800 INTERNATIONAL DRIVE
ORLANDO, FLORIDA



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PARTICIPANTS

Presiding Officers: Standards Council, A2024 Motions

Committee:

James Quiter, Chair of Standards Council

Rodger Reiswig

Jeff Foisel

Michael Crowley

Jack Poole

Randy Krause

Dwayne Sloan

Chairs of documents with Certified Amending Motions

Raymond Grill, Chair of the Technical Committee on
System Installation Criteria

Milosh Puchovsky, Chair of the Technical Committee on
Pumps

Keith Pardoe, Chair of the Technical Committee on
and Windows

Daniel O'Connor, Chair of the Technical Committee on
Initiating Devices for Fire Alarm and Signaling Systems

Charles "Randy" Watson, Chair of the Technical
Fire Investigation Units (FIUs)

Vincent DeGiorgio, Chair of the Technical Committee on
Semiconductor and Related Facilities

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PARTICIPANTS (CONTINUED)

Chairs of documents with Certified Amending Motions

Tim Tomlinson, Chair of the Technical Committee on Structural and Proximity Firefighting Protective and Equipment

Albert Yanagisawa, Chair of the Technical Committee on Respiratory Protection Equipment

Rick Swan, Chair of the Correlating Committee on Fire Emergency Services Protective Clothing and Equipment

William Koffel, Chair of the Correlating Committee on Automatic Sprinkler Systems

Merton Bunker, Chair of the Correlating Committee on Signaling Systems for the Protection of Life and

Submitters of CAMs:

Kenneth Schneider, United Association of Journeymen and Apprentices of the Plumbing and Pipe Fitting Industry

Kevin Hall, American Fire Sprinkler Association

Jeffrey Hugo, National Fire Sprinkler Association

Kevin Kelly, Victaulic

Sterling McConnell, Monaco Enterprises, Inc.

John M. Cholin, J.M. Cholin Consultants, Inc.

William Koffel, Koffel Associates, Inc.

Chad Beebe, ASHE-AHA

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PARTICIPANTS (CONTINUED)

Submitters of CAMs:

- Lauren Lurkins, United Egg Producers
- Michael Keenan, Arthur J. Gallagher and Co.
- Emily Stearns, American Horse Council
- Michael Formica, National Pork Producers Council
- Matthew Spenser, U.S. Poultry and Egg Association
- Marcelo Hirschler, GBH International
- Stephen Rinaldi, Chelan County Fire Marshal/Chelan
Department of Fire Prevention and Investigation
- Travis Tamarantz, Wilkes-Barre City Firefighters
Local 104
- Jeremy Lawson, CAL FIRE
- John Morris, 3M Company
- Webster Marshall, Firefighter Cancer Foundation
- Jim Reidy, Firefighter Consulting, LLC
- Sean DeCrane, International Association of Firefighters

1 **2024 NFPA TECHNICAL MEETING**

2 **HELD ON**

3 **THURSDAY, JUNE 20, 2024**

4 **(AUDIO FILE BEGINS)**

5

6 **UNIDENTIFIED SPEAKER:** Anyone violating
7 these rules. The regulations governing the
8 development of NFPA standards or the regs primarily
9 govern the NFPA standards development process
10 including processing of certified amending motions
11 at technical meetings.

12 The complete regs are available on NFPA's
13 website at www.NFPA.org/regs for your convenience.
14 As a participant in the process and attendee, you
15 should familiarize yourself with the guide for the
16 conduct of participants in the NFPA standards
17 development process prior to the start of
18 consideration of today's certified amending motions.

19 Additionally of importance to be familiar
20 with are the NFPA convention rules. The convention
21 rules establish the process for today's session.
22 Both documents are available on NFPA's website at
23 www.NFPA.org/regs.

24 The certified amending motions of the 2024
25 technical meeting will be taken in the published

1 order of the 2024 annual tech agenda. To access and
2 view both of the final report of the motions
3 committee and ordered agenda on certified amending
4 motions, please visit www.NFPA.org2024tech.session.

5 The report of the motions committee and
6 agenda combines all certified amending motions from
7 the fall 2023 including ERRS group 3 custom schedule
8 standards and annual 2024 revision cycle standards.
9 Identifying all motions eligible for consideration
10 during the technical meeting, only certified
11 amending motions and subsequent allowable follow-up
12 motions as determined by the presiding officer will
13 be entertained at this meeting.

14 An authorized person must sign in as per
15 the convention rules to indicate presence and
16 intention to pursue each certified amending motion.

17 Please note, by obtaining you're
18 credentials at registration and entering the room,
19 you have electronically signed in for these
20 purposes. All certified amending motions were
21 reviewed by motions committee for determination of
22 certification following submission of notices of
23 intent to make a motion.

24 For the NFPA technical meeting a quorum is
25 to be established prior to conducting business and

1 consideration of certified amending motions. Should
2 the quorum be lost during proceedings, the session
3 will terminate without further action by the
4 membership.

5 Any certified amending motions not acted
6 upon prior to the loss of quorum shall be forwarded
7 directly to the standards council without
8 recommendation of this meeting for action related to
9 issuance in accordance with Section 4.7 of the regs.

10 Any motions to amend or return that passed
11 prior to loss of quorum shall be process had and
12 forwarded to the standards council in accordance
13 with regs 4.5.3, 4.6, and 4.7.

14 Any appeals based upon NFPA technical
15 meeting actions must be filed with the standards
16 council within 20 days following adjournment,
17 specifically, July 10th this year. Per Section
18 1.6.2 of the regs, an appeal for any amendment
19 passed at this meeting which fails committee ballot
20 shall be filed no later than five days after
21 publications of the amendment ballot results.

22 Typically results of amendment ballots are
23 published within 20 days of the technical meeting's
24 adjournment. The votes cast at the technical
25 meeting in conjunction with the debate prior to

1 voting are an integral and important contribution to
2 NFPA's consensus process.

3 Through motions, debate, and voting, you,
4 our NFPA membership, make recommendations to the
5 standards council. The majority vote results today
6 are for the sole purpose of providing
7 recommendations to the standards council prior to
8 the issuance of standards.

9 The standards council's decision on
10 issuance is based upon the entire record including
11 the discussion and resulting votes at the technical
12 meeting. Voting at NFPA technical meeting's is a
13 privileged granted to voting members of the
14 association who are registered for this event and
15 physically present.

16 Voting members are identified as such on
17 registration badges may utilize a voting device and
18 should be seated in areas of the room designated for
19 voting members.

20 Presiding officers, regardless of
21 membership status, do not vote on matters before the
22 membership. In the event of a tie vote, the issue
23 fails.

24 In the continuing effort to provide the
25 most convenient and accurate methodology for voting,

1 NFPA will continue with voting using your personal
2 Android or iOS smart device by simply down loading
3 the NFPA tech session voting app. The app is
4 available at www.NFPA.org/2024techsession.

5 Additionally, there are signs available
6 with QR codes in the room and outside the room which
7 will take you directly to the app for downloading.
8 For those who have yet to download the voting app,
9 please take note that this must be done prior to
10 submitting your votes today and will require you to
11 verify your successful download by answering a test
12 question.

13 This process only takes a matter of
14 minutes and assistance is available should you
15 experience any difficulties. For anyone who is a
16 member with voting rights at today's session who
17 does not have a smart phone device, NFPA will
18 provide you with a voting device at the identified
19 table located in the back of the room and upon
20 request.

21 These members will also be required to log
22 into the app with an assigned key code and complete
23 the test question prior to submission of a first
24 vote.

25 Once the session begins today, a presiding

1 officer will recognize each authorized maker of
2 motion or designee in the published agenda order.
3 At that time, to proceed, the maker must approach
4 the microphone to present the motion.

5 During the technical meeting, statements
6 for the record, statements for which no certified
7 amending motions or allowable follow-up motion is
8 available shall not be permitted.

9 Following presentation of a certified
10 amending motion by the maker or designee, the chair
11 of the responsible technical meeting shall report.

12 The floor is then open for discussion.
13 Anyone in attendance has the privilege of
14 participating, speaking either in support of or
15 opposition to the motion.

16 Please preface all remarks with your name,
17 company or organizational affiliation and whether
18 you are speaking in favor of or against the
19 presented motion.

20 Again, identify yourself by name, company
21 or organizational affiliation, and your position
22 each time you address the membership. Should you
23 forget to do so, the presiding officer will remind
24 you of this as the information assists the
25 stenographer of the session.

1 Green lights indicate microphones for
2 supporters of the motion.

3 Red signs indicate microphones for
4 opponents of the motion.

5 Per the regulations governing NFPA
6 sections, a section may present position on a motion
7 at the technical meeting.

8 The position of a section does not
9 necessarily reflect their views of all section
10 members but minimally must have been established by
11 a majority of members with 25 or more votes cast.

12 The position of a section is awarded no
13 special status in the NFPA standards development
14 process and may be weighed and assessed by you, the
15 membership, deem appropriate.

16 To officially conduct this meeting, the
17 presiding officer will allow each speaker three
18 minutes to speak. However, the presiding officer
19 may limit speaking time afforded in the event that
20 this becomes necessary.

21 With one minute remaining, a bell will
22 sound, and a timer will appear on the center screen.
23 Once your time has ended, please conclude your
24 remarks.

25 Following close of debate, the membership

1 will be asked to vote on the motion. Once the vote
2 is final, the presiding officer will announce the
3 results of the membership's vote.

4 If the motion was successful, the
5 presiding officer shall entertain follow-up motions,
6 if any.

7 The maker of a follow-up motion shall
8 explain why the motion is in order before the
9 presiding officer makes determination as to whether
10 the motion is a proper follow-up motion.

11 If determined proper, debate on the floor
12 follows the same order as certified amending
13 motions.

14 As presentations and debate of each motion
15 continues, the screen will display the following
16 from left to right.

17 Screen one will show the recommended text
18 if the motion passes or should the motion's text be
19 lengthy, refer the audience to the electronic
20 agenda.

21 Screen two will show the recommended text
22 of the technical meeting and if the motion fails.

23 The center screen will show the actual
24 motion and action on the floor that the IMAG camera
25 captures during debate.

1 Following close of a motion's debate and
2 membership vote, the center screen will display the
3 total number of votes in support and in opposition
4 of the motion.

5 To the right of the center screen, screen
6 one and two, information will be visible for ease of
7 seeing from the right half of the room. Together,
8 we will make the 2024 NFPA technical meeting a
9 success.

10 In conclusion, I end with a special thank
11 you in advance for your participation and we will
12 come any comments you may share and suggested
13 improvements for future events.

14 At this time, I invite you to please take
15 your seats. The 2024 NFPA technical meeting will
16 begin shortly.

17 Again, please take your seats at this
18 time. Your efforts to assist us in starting timely
19 are graciously appreciated.

20 Thank you.

21 **JAMES QUITER:** Good morning and welcome,
22 ladies and gentlemen, to the 2024 NFPA technical
23 meeting.

24 I am James Quiter, and it is my distinct
25 pleasure to serve as your Standards Council Chair

1 and to take part in this year's meeting.

2 Before we go any further, I would like to
3 introduce to my left, Dawn Michele Bellis, who
4 served as secretary of the standards council, and to
5 her left, Suzanne Gallagher, NFPA deputy general
6 counsel.

7 As you know, the NFPA standards
8 development process is a consensus process that
9 encourages participation of all facets of industry,
10 trades, government, enforcers, and anyone interested
11 in improving safety and reducing fire loss.

12 Through this process, countless volunteers
13 share their expertise and time to ensure that NFPA
14 standards are developed and updated or revised to
15 address safety concerns and technologies.

16 It is my pleasure to recognize some
17 outstanding NFPA participants today who have gone
18 above and beyond to further NFPA's mission.

19 As I announce the awards, please join me
20 in thanking each award recipient and recognizing the
21 stellar contributions each has made to NFPA
22 standards.

23 The first award is the special achievement
24 award. It is presented to recognize the significant
25 contribution of a committee member to a single

1 project that has enhanced the NFPA standards
2 development process.

3 We have one special achievement award that
4 will presented today. The award goes to Kathryn H.
5 Floyd of the College of William and Mary in
6 Alexandria, Virginia.

7 Accepting on behalf of Dr. Floyd is Joseph
8 Hendry of Navigate360.

9 Mr. Hendry, if you would please come up to
10 the stage.

11 **UNIDENTIFIED SPEAKER:** Dr. Floyd is being
12 recognized today for her active role with the
13 technical committee on cross-functional emergency
14 preparedness and response. She has been a
15 consistent and strong advocate in promoting this
16 project since it's inception.

17 While serving on this committee for 3,000
18 NFPA 3,000 standard for an active shooter, hostile
19 event response program, Dr. Floyd has been a leading
20 voice on terminology and planning needs unique to
21 recovery operations during ASHER incidents.

22 Her recognition of the need to expand
23 traditional reunification plans to include new
24 concepts like information centers and incident
25 assistance centers is already helping communities to

1 recover from ASHER events.

2 Her discussion at technical committee
3 meetings is always well informed and cutting edge.
4 Her drive and commitment to helping others is
5 evident through her work on this important technical
6 committee and standard for our communities.

7 Dr. Floyd officially became a member of
8 the technical meeting on cross-functional emergency
9 preparedness and response in 2021.

10 However, she has been an integral part of
11 the team since 2017 when she began working with the
12 technical committee as a guest and led task group
13 responsibility for writing Chapter 20 on recovery in
14 the provisional standard.

15 **JAMES QUITER:** Please join me on
16 congratulating Dr. Floyd on her special achievement
17 award.

18 And thank you, Joseph, for accepting on
19 her behalf.

20 This concludes the special achievement
21 awards.

22 Now for the committee service awards.

23 The committee service award is given to a
24 technical member for continuous and exemplary
25 service on one or more committees over a substantial

1 period of time. And in recognition and appreciation
2 of distinguished service to NFPA in the development
3 of NFPA codes and standards. I am pleased to
4 present this award to the following worthy
5 individuals.

6 Our first recipient of the committee
7 service award is Weston Baker. Weston, please join
8 me on stage.

9 **UNIDENTIFIED SPEAKER:** Weston C. Baker of
10 FM Global in Johnston, Rhode Island serves on
11 automatic sprinklers system technical committees on
12 sprinkler system installation criteria from 2004 to
13 present and sprinkler system discharge criteria 2002
14 to present as well as receiving a special
15 achievement award in 2015.

16 **JAMES QUITER:** Thank you, Weston, for your
17 many years of service to NFPA and the standards
18 development process.

19 Now let's welcome committee service award
20 winner Merton Bunker. Merton, please join me on
21 stage.

22 **UNIDENTIFIED SPEAKER:** Merton W. Bunker of
23 Merton Bunker & Associates, LLC in Stafford,
24 Virginia serves on correlating committees on the
25 national electrical code from 2006 to 2015.

1 Signaling systems for the protection of life and
2 property, 2005 to present. Serving as chair from
3 2015 to present. Technical committees on signaling
4 systems, protective premises fire alarms and
5 signaling systems from 2009 to present. He was
6 chair from 2009 to 2015. Air conditioning from 2007
7 to 2015. Electrical systems maintenance, 2003 to
8 2015. Chair from 2003 to 2011, and, finally,
9 installing systems, testing and maintenance of fire
10 alarm and signaling systems, 2001 to 2009.

11 **THE COURT:** Thank you, Merton, for your
12 years of service to NFPA and the standards
13 development process.

14 The next recipient of the NFPA committee
15 service award is Dr. Shane Clary. Dr. Clary, please
16 join me on stage.

17 **UNIDENTIFIED SPEAKER:** Dr. Shane M. Clary
18 of Bay Alarm Company in Concord, California serves
19 on correlating committees on signaling systems for
20 the protection of life and property, 2003 to 2013
21 and 2020 to the present. Fire code, 2020 to the
22 present. Safety for life, 2007 to the present. The
23 signaling systems technical committees on
24 supervising station, fire alarm and signaling
25 systems, 2016 to the present. Carbon monoxide

1 detection, 2005 to 2018. Fundamentals, 2003 to
2 present. Chair from 2003 to 2013. Protective
3 premises alarm, fire alarm and signaling systems,
4 1993 until 2016. He also serves on technical
5 committees on healthcare facilities, fundamentals
6 2022 to present. Building code and safety to life,
7 healthcare facilities, 2021 until the present. Fire
8 protection of cannabis growing and processing
9 facilities, 2021 to present. Inspection, testing,
10 and maintenance of water-based systems, 2021 to
11 present. Remote inspections, 2021 to present.
12 Fundamentals of the fire code, 2020 to present.

13 As you can tell, Dr. Clary is very, very
14 busy. We're very proud of that. Lost my place.
15 Fire code, building systems and special occupancies,
16 2020 to present. Telecommunications, 2017 to
17 present. Fire risk assessment methods, 2010 until
18 the present. Commissioning and integrated testing,
19 2007 to the present. Cultural resources, 2006 to
20 present day. Fire code, 2005 to 2020. National
21 electrical code, panel 3, 2002 to the present.
22 Premises security 2001 to the present. Building
23 code building systems, 2000 to the present. And,
24 finally, a special achievement award in 2013.

25 **JAMES QUITER:** Thank you, Dr. Clary, for

1 filling up two pages of our script and for your many
2 years of service to NFPA.

3 Next we have David Frable. Dave, please
4 join me on stage.

5 **UNIDENTIFIED SPEAKER:** David W. Frable of
6 US General Services Administration in Geneva,
7 Illinois serves on the correlating committee on
8 building code from 2000 to present. Technical
9 committees on inspection, testing and maintenance of
10 water-based systems, 2013 to present. Commissioning
11 and integrated testing, 2011 to present. Signaling
12 systems fundamentals, 2009 to present. Commissioning
13 fire protection systems, 2008 to 2011. Building
14 code building construction, 1987 to the present.

15 He also serves on the building and safety
16 to life technical committees on fundamentals, 2009
17 to present, means of egress 1991 to present, and,
18 finally, mercantile and business occupancies, 2009
19 to present.

20 **JAMES QUITER:** Thank you, Dave, for your
21 many years of service to NFPA and the standards
22 development process.

23 Next, we have Dan Guaricci, who wasn't
24 able to be here today, but proceed.

25 **UNIDENTIFIED SPEAKER:** I will happily read

1 and congratulate, Mr. Guaricci.

2 Dan A. Guaricci of ATEX Explosion
3 Protection L.P. in Davenport, Florida serves on the
4 technical committee on explosion protection systems
5 from 1991 to present. Combustible dusts technical
6 committees on agricultural dusts, 2000 to present.
7 Wood and cellulosic materials processing, 1997 to
8 present. And handling and conveying of dusts,
9 vapors, and gasses from 1995 until 2011.

10 **JAMES QUITER:** And we thank Dan for his
11 service to NFPA.

12 Next we have Larry Keeping. Larry, please
13 join me on stage.

14 **UNIDENTIFIED SPEAKER:** Larry Keeping of
15 PLC Fire Safety Engineering in Mississauga, Ontario,
16 Canada -- I hope I didn't mess up that Mississauga
17 -- automatic sprinkler systems technical committees
18 on private water supply piping systems, 2013 to
19 present. Sprinkler system discharge criteria, 1997
20 to present. Sprinkler system installation criteria,
21 1997 to present. As well as the technical committee
22 object inspection, testing and maintenance of water-
23 based systems from 1992 until the present.

24 **JAMES QUITER:** Thank you, Larry, for your
25 many years of service to NFPA and the standards

1 development process.

2 Next, we have Chief Randy Krause. Randy,
3 please join me on stage.

4 **UNIDENTIFIED SPEAKER:** Chief Randy J.
5 Krause of Port of Seattle Fire Department, Seattle,
6 Washington serves on the correlating committee on
7 professional qualifications from 2012 until present.
8 Technical committees on emergency responders
9 occupational health, 2019 as chair until the
10 present. Fire service occupational safety from 2012
11 to the present serving as chair from 2012 until
12 currently. Aircraft rescue and firefighting 2008 to
13 2016. And he is a member of a standards council
14 beginning in 2022 until the present.

15 **JAMES QUITER:** Thank you, Randy, for your
16 many years of service to NFPA and the standards
17 development process.

18 Next we have Maria Marks. Maria, please
19 join me on stage.

20 **UNIDENTIFIED SPEAKER:** Maria Marks of
21 Siemens Industry, Incorporated in Kensington,
22 Maryland serves on correlating committees on the
23 building code, 2023 until the present. Healthcare
24 facilities, 2022 until the present. Signaling
25 systems for the protection of life and property,

1 2016 to present day. And safety to life, 2015 to
2 the present.

3 She also serves on the building code and
4 safety to life technical committees on building
5 service and fire protection equipment beginning in
6 2022. Fundamentals, 2022 to the present. Means of
7 egress, 2022 until the present. As well as
8 educational and daycare occupancies, 2012 until the
9 present.

10 She serves on technical committees on
11 telecommunications, 2022 to the present. Airport
12 facilities, 2022 to the present. Fire code building
13 systems and special occupancies, 2022 to present.
14 Fixed guide way transit and passenger rail systems,
15 as well, from 2022 until the present. Premises
16 security, remote inspections, and spaceports, 2022
17 until the present.

18 She also serves on cross-functional
19 emergency preparedness and response from 2022 until
20 the present. Commissioning on integrated testing,
21 2022 until the present. Healthcare facilities,
22 fundamental of healthcare facilities, 2021 until the
23 present. And, finally, signaling systems,
24 fundamentals of fire, alarm, and signaling systems,
25 2005 until the present.

1 **JAMES QUITER:** Thank you, Maria, for your
2 years of service and for almost having as many as
3 Dr. Clary.

4 Next we have Leo Martin, Jr. Leo, please
5 join me on stage. I don't see Leo anywhere.

6 **UNIDENTIFIED SPEAKER:** Is Leo here? I
7 will go ahead and read about Leo. Leo F. Martin,
8 Jr. of Martin Electrical Code Consultants in
9 Norwood, Massachusetts serves on the correlating
10 committee on signaling systems for the protection of
11 life and property from 2016 until the present. As
12 well as technical committees on signaling systems,
13 public emergency reporting systems, 2007 to the
14 present. And chair 2016 to the present. And,
15 finally, the national electrical code panels, code
16 making panel 10 from 1990 until 1995.

17 **JAMES QUITER:** And we thank Leo for his
18 many years of service.

19 Our next recipient is Warren Olsen.
20 Warren, please join me on stage.

21 **UNIDENTIFIED SPEAKER:** Warren Olsen of
22 Fire Safety Consultants, Incorporated in Elgin,
23 Illinois serves on technical committees on
24 commissioning and integrated testing, 2011 to
25 present. Signaling systems technical committees on

1 supervising station fire alarm and signaling
2 systems, 2009 to the present, serving as chair from
3 2009 to 2019. Notification appliances for fire
4 alarm an signaling systems from 2003 until 2009 as
5 well as 2016 to the present. He serves on the
6 correlating committee on signaling systems for the
7 protection of life and property from 2009 to 2019
8 and received a special achievement award in 2018.

9 **JAMES QUITER:** Thank you, Warren, for your
10 years of service to NFPA and the standards
11 development process.

12 Next we have Keith Pardoe. Keith, please
13 join me on stage.

14 **UNIDENTIFIED SPEAKER:** Keith Pardoe of
15 Pardoe Consulting LLC in Culpeper, Virginia serves
16 on technical committees on building code and safety
17 to life fire protection features from 2021 to the
18 present. And fire doors and windows, 2004 to the
19 present as well as being chair from 2015 to the
20 present.

21 **JAMES QUITER:** Thank you, Keith, for your
22 years of service to NFPA and the standards
23 development process.

24 Our next recipient is Brian Polk. Brian,
25 please join me on stage.

1 **UNIDENTIFIED SPEAKER:** Brian N. Polk of
2 the North Carolina Department of Transportation,
3 Raleigh, North Carolina serves on technical
4 committees on hazardous waste, 2017 through 2023.
5 And incinerators and waste handling systems, 2008 to
6 present as well as serving as chair from 2010 to the
7 present.

8 **JAMES QUITER:** Thank you, Brian, for your
9 years of service to the NFPA and standards
10 development process.

11 Next we have Jack Poole. Jack, please
12 join me on the stage.

13 **UNIDENTIFIED SPEAKER:** Jack Poole of Poole
14 Fire Protection, Incorporated in Olathe, Kansas
15 serves on the correlating committee on signaling
16 systems for the protection of life and property,
17 2015 to present. He also serves on the technical
18 committees on water additives for fire control and
19 vapor mitigation, 2023 to present. Fire protection
20 for nuclear facilities, 2021 until present.
21 Commission and integrated testing CMI-AAA, 2020 to
22 the present. Signaling systems, protection premises
23 fire alarm and signaling systems, 2015 as chair to
24 the present. Building code and safety to life
25 detention and correctional occupancies, 2510 until

1 the present. Electronic computer systems, 2012 to
2 present. Healthcare facilities, health care
3 emergency management and security, 2012 to the
4 present. Marinas and boatyards, 2012 to the
5 present. Helicopter facilities from 1998 to
6 present. Signaling systems, notification appliances
7 for fire alarm and signaling systems, 1998 until the
8 present. Subterranean spaces, 1995 to present.
9 He's been the chair since 2014 of that committee.
10 Airport facilities, 1991 to the present. And,
11 finally, standards council, he's been on the
12 standards council since 2018.

13 **JAMES QUITER:** Thank you, Jack, for your
14 many years of service to NFPA and the standards
15 development process.

16 Next we have Peter Schwab. Peter, please
17 join me.

18 **UNIDENTIFIED SPEAKER:** Peter T. Schwab of
19 Wayne Automatic Fire Sprinklers, Incorporated in
20 Ocoee, Florida serves on technical committees on
21 fire service training, 2020 to 2022. Hanging and
22 bracing for fire suppression systems, 2019 until the
23 present. Animal facilities, 2018 to 2023. Garages
24 and parking structures, 2016 until the present.
25 Standpipes, 2005 to the present. As well as forest

1 an rural fire protection, from 2005 to 2010.

2 He additionally served on automatic
3 sprinkler systems technical committees on sprinkler
4 system discharge criteria, 2010 until the present.

5 Hanging and bracing of water-based protection
6 systems, 2007 to present. Sprinkler system

7 installation criteria, 2007 to present. Private
8 water supply piping systems from 2005 to present.

9 And, finally, residential sprinkler systems, 2005 to
10 present.

11 **JAMES QUITER:** Thank you, Peter, for your
12 years of service to NFPA and the standards
13 development process.

14 Our next recipient is Jeffrey Sutton.
15 Jeffrey, please join me.

16 **UNIDENTIFIED SPEAKER:** Jeffrey W. Sutton
17 of TUV SUD America, Incorporated, Global Risk
18 Consultants Corporation in Champlin, Minnesota
19 serves on correlating committees on combustible
20 dusts, 2020 to the present. And associated technical
21 committees on combustible dusts fundamentals of
22 combustible dust, 2019 until present. Combustible
23 dusts agricultural dusts, 2003 until present. As
24 well as combustible dusts handling and conveying of
25 dusts, vapors, and gases, 1993 until 1997 as well as

1 2008 until the present.

2 He also serves on technical committees on
3 water spray fixed systems from 2006 until the
4 present. Automatic sprinklers, foam-water
5 sprinklers, 2006 to 2021. And explosion protection
6 systems, 1994 until the present.

7 **JAMES QUITER:** Thank you, Jeffrey for your
8 years of service to NFPA and the standards
9 development process.

10 And next we have William Till, Jr.
11 William, please join me on stage.

12 **UNIDENTIFIED SPEAKER:** William B. Till,
13 Jr. of Bernie Till & Associates LLC in Orangeburg,
14 South Carolina serves on technical committees on
15 mining facilities, 2015 until present. Explosion
16 protection systems, 2012 to 2015, and fire
17 protection for nuclear facilities serving from 1998
18 to the present and chair from the 2008 to the
19 present day.

20 **JAMES QUITER:** In addition to the two
21 people we have already mentioned who could not make
22 it today, we have several other committee service
23 award recipients who are not here.

24 We would like to acknowledge and thank
25 them for their service despite their absence.

1 **UNIDENTIFIED SPEAKER:** The remaining NFPA
2 technical committee members receiving awards today
3 are Dan Chisholm, Sr. as an outgoing chair of MGI
4 Systems, Incorporated in Winter Park, Florida. Dan
5 serves on technical committees on healthcare
6 facilities electrical systems, 1997 to present. And
7 emergency power supplies, 1993 to present. Serving
8 as chair from 2017 to today.

9 Kim I. MacCartney, Marine Claims Technical
10 Services in Yorktown, Virginia. Kim serves on the
11 technical committee on motor craft. She's been on
12 that committee from 1985 until the present day.

13 Captain John J. McDevitt, another outgoing
14 chair from Drexel Hill, Pennsylvania. John serves
15 on the technical committees on marine firefighting
16 vessels from 2006 until the present. Marinas and
17 boatyards from 2004 to the present. And motor
18 craft, 2002 to the present, being chair since 2012.

19 Matthew M. Shanks, out going chair, from
20 Clarksville, Maryland. Matthew served on the
21 technical committee on internal combustion engines
22 from 2015 until 2024 and was chair between 2016 and
23 2024.

24 Nancy J. Trench of Oklahoma City,
25 Oklahoma. Nancy serves on the correlating committee

1 on professional qualifications. She's been on that
2 committee since 2002. And the associated technical
3 committee on public fire educator, public
4 information officer, youth firesetter information
5 specialist, and youth firesetter program manager
6 professional qualifications from 2002 until the
7 present. And she served as chair for that committee
8 since 2014. And, finally, Nancy served as a board
9 of director for NFPA from 1989 until 1995.

10 Allyn J. Vaughn of Las Vegas, Nevada
11 serves on the technical committees on signaling
12 systems, supervising station fire alarm and
13 signaling systems from 2012 until 2016. Smoke
14 management systems, 2010 to 2024, and was chair from
15 2015 to 2024 of that committee. Automatic sprinkler
16 systems, hanging and bracing of water-based fire
17 protection systems from 1997 to 2007. And signaling
18 systems, fundamentals of fire alarm and signaling
19 systems, 1996 until 2019.

20 And, finally, Charles J. Wright of Omaha,
21 Nebraska. Charles serves on technical committees on
22 hazardous materials response personnel from 1986
23 until the present. He has been a member of that
24 committee, member emeritus since 2021, and received
25 a special achievement award at NFPA in 2017.

1 **JAMES QUITER:** Again, let's show our
2 thanks and appreciation for these award recipients
3 and their efforts.

4 Thank you for that sincere appreciation,
5 and with that, I now turnover the meeting to Rodger
6 Reiswig, presiding officer, who will proceed with
7 orders of business for the 2024 technical committee.

8 Welcome, sir.

9 **RODGER REISWIG:** Good morning. Thank you,
10 Jim.

11 As the 2024 chair of the motions committee
12 of the NFPA standards council, it is my distinct
13 honor and pleasure to welcome you to Orlando and
14 this year's technical committee.

15 As you know, certified amending motions,
16 CAMs, will be presented, debated, and voted upon
17 today for standards which were processed through the
18 fall of 2023 and the annual 2024 revision cycles
19 respectively.

20 Each of the certified amending motions, or
21 CAMs, were acted upon by the motions committee at
22 the conclusion of each NITMAM, notice of intent to
23 make a motion, submission period to determine
24 certification in accordance with table 1 of the
25 regulations governing the development of NFPA

1 standards.

2 The results of the committee's review and
3 decisions were publicly posted in the fall and
4 annual reports of the motions committee. The order
5 of presentation during today's sessions are detailed
6 in the agenda. All are available for review at
7 NFPA.org/2024techsession. That's
8 NFPA.org/2024techsession.

9 As I close my remarks of welcome, please
10 remember that each of you is an essential element
11 within the NFPA standards development process. Your
12 participation at each stage is invaluable for the
13 consensus process. For that I extend my personal
14 thanks as well as the gratitude of the entire
15 standards council for your time, dedication, and
16 interest.

17 Now, without delay, I introduce you to our
18 first presiding officer of the session Mr. Jack
19 Poole.

20 **JACK POOLE:** Thank you, Rodger.

21 As introduced, I'm Jack Poole, and I'm the
22 presiding officer. And I declare that a quorum is
23 present for purposes of conducting business this
24 morning.

25 Let me remind you, being a safety

1 organization that we are, NFPA always concerned
2 about your safety, while you are here we want to be
3 safe so please pay close attention to the following
4 safety procedures.

5 In the event of an emergency here at
6 Orange County Convention Center, an alarm will go
7 off. It sounds like a horn, and you'll see flashing
8 strobe lights and verbal instructions of how to
9 proceed.

10 When the alarm system is activated, horns
11 will sound. Strobe lights will flash and be visible
12 throughout the area, and a series of emergency
13 announcements will be audible over the public
14 address and emergency evacuation system.

15 If evacuation is ordered, quietly leave
16 the room using the exits nearest you, and follow
17 posted route maps, NFPA staff and the Orange County
18 Convention Center staff instructions. Remember, the
19 nearest exit may be behind you.

20 During the technical meeting, use of
21 recording devices of any type is prohibited.

22 The votes cast at technical meeting in
23 conjunction with the debate are an integral and
24 important contribution to NFPA's consensus process.
25 Through motions, debates, and voting, you, our NFPA

1 membership, make recommendations to standards
2 council.

3 The majority vote results today are for
4 the sole purposes of providing recommendations to
5 the standards council prior to the issuance of the
6 standards.

7 Any appeal upon technical meeting actions
8 must be filed with the standards council secretary
9 by July 10th. That is 20 days following the
10 adjournment of this meeting. An appeal for any
11 amendment passed at this meeting which fails
12 technical committee or a correlating committee
13 ballot shall be filed no later than five days after
14 publication of the technical committee ballot
15 results in accordance with Section 1.6.2 B of the
16 regulations.

17 Typically, results of amended ballots are
18 published within 20 days of the technical committee
19 adjournment. The standards council decision on
20 issuance is based on the entire record before it
21 including the pre-technical meeting position
22 statements submitted, the debate and resulting votes
23 at the technical committee meeting.

24 The standards council will meet on August
25 27th through the 29th, 2024 to hear appeals and make

1 final determinations on issuing standards.

2 Today's session will include certified
3 amending motions or CAMs for NFPA 1321, 150, 20,
4 318, 80, 105, 1970, 72, and 13 in this order as
5 posted in the agenda. And the agenda address is
6 www.NFPA.org/2024techsession.

7 Before we move on to the certified
8 amending motions for consideration and debate today,
9 let's be certain that everybody's voting application
10 is working. For anyone who is a member with voting
11 rights at today's session who has yet to download
12 the application for voting, please do so at this
13 time.

14 Staff is in the rear of the room and can
15 assist you if necessary. Any registered eligible
16 voting member who does not have a smart phone device
17 may request the use of a limited number of voting
18 devices available at the NFPA staff table in the
19 back of the room.

20 Members using the NFPA provided voting
21 devices will also be required to log into the app
22 with an assigned key code and complete the test
23 prior to submission of the first vote.

24 To verify that the app is working
25 properly, please scroll down and select call the

1 question. I will ask for you to vote. You choose
2 either yes or no. After I announce that vote is
3 open, pause after we do that.

4 Okay. You ready?

5 Voting is now open.

6 Please cast your vote, yes or no.

7 Voting will close in five seconds.

8 Voting is closed.

9 So we should have nearly 500 votes.

10 Everybody needs to do this so we're going to do it
11 again, because as I see it, we got 195 yes and 19
12 no.

13 So there should be a lot more of you
14 voting. So anybody that plans to vote today needs to
15 do this.

16 So are we ready? We're going to try it
17 again.

18 Voting is now open.

19 So cast your vote, yes or no.

20 Voting is going to close in five seconds.

21 Did everybody who plans to vote, vote?

22 Did you see your vote cast? Okay.

23 We did get more votes this time. Very
24 good.

25 Everybody comfortable with that? Anybody

1 have any concerns? If so, see staff at the back
2 table.

3 Okay. Are we ready? The first standard
4 on our agenda for today is NFPA 1321, standard for
5 fire investigation units.

6 Randy Wilson, will you present the chair's
7 report please.

8 **RANDY WATSON:** Thank you, Mr. Poole.

9 Good morning, ladies and gentlemen, my
10 name is Randy Watson, not Wilson, but I'm the chair
11 of the technical committee on fire investigation
12 units. I'm also an NFPA life member and a member of
13 various other technical committees.

14 All right. Ladies and gentlemen, the
15 report of the technical committee on fire
16 investigation units for the standards on fire
17 investigation units is presented as found in the
18 first draft report and second draft report for the
19 fall of 2023 revision cycle.

20 The technical committee have published the
21 first draft and second draft consisting of revisions
22 to the standard for fire investigation units. These
23 revisions were submitted by letter ballot by the
24 responsible committee.

25 The reports and ballot results can be

1 found on the next tab of the document information
2 page for the standard on fire investigation unit at
3 NFPA.org/1321 next.

4 With that, I move for the standards
5 council issuance of the committee's report on
6 standard for fire investigation units.

7 **JACK POOLE:** Thank you, Randy.

8 Let's now proceed with the discussion on
9 the first certified amending motion of this year's
10 technical meeting, CAM 1321-2.

11 To the microphone number five, state your
12 name, affiliation, and whether you're for or against
13 or state your motion.

14 **STEPHEN RINALDI:** Thank you, Presiding
15 Officer Poole.

16 My name is Stephen Rinaldi. I am the fire
17 marshal with the Durango Fire Rescue out of Durango,
18 Colorado.

19 I move to accept certified amending motion
20 1321-2 to uphold second revision public comment
21 number 24 to change the standard to a guide and to
22 replace the word shall with should in relation to a
23 guide.

24 **JACK POOLE:** Thank you.

25 There's a motion on the floor to accept

1 public comment number 24.

2 Is there a second?

3 **UNIDENTIFIED SPEAKER:** Second.

4 **JACK POOLE:** We have a second.

5 Please proceed with discussion on the
6 motion.

7 Stephen, if you want to proceed.

8 **STEPHEN RINALDI:** Thank you, Mr. Poole.

9 The TC provided in their first draft
10 response that this document was being created to
11 meet OSAC's objective of striving to improve
12 forensic science related to fire investigation.

13 Due to the extraneous resources that will
14 be necessary to become fully compliant with the
15 standard, many organizations will not have the
16 funding, staffing, or other resources needed to
17 fulfill every requirement from the day of
18 publication.

19 Thus, public and private organizations
20 with limited resources will be unfairly judged as
21 noncompliant and not meeting the requirements as
22 soon as the standard is implemented.

23 This will allow for the weaponizing of
24 this standard for the use in the courts in targeting
25 these organizations which have been operating for

1 years and now suddenly viewed as substandard and not
2 qualified based on this new standard.

3 NFPA 1730, the standard on organization,
4 deployment of fire prevention, inspection, and code
5 enforcement, plan review, investigation, and public
6 education operations, particularly in Chapter 8,
7 already stipulates the majority of the content in
8 1321.

9 As a public sector AHJ, my organization,
10 and in particular the fire marshal division,
11 operates under NFPA 13 -- 1730.

12 The NFPA 1321 attempts to group all fire
13 investigation units both public and private in
14 sectors in both the public and private sectors.
15 However, NFPA 1730 is not even referenced in NFPA
16 1321.

17 Additionally, there was an effort -- there
18 was no effort to even correlate these two documents
19 during the development process.

20 Also, further during the development
21 process of the proposed standard, members of the
22 OSAC subcommittee was trying to attempt to get
23 accreditation information into this standard.

24 That argument is used with regard NFPA
25 1730 for the public sector.

1 At this time, I would support the CAM
2 1321, and I would ask the members of this technical
3 committee to also support it and changing this
4 document from a standard to a guide.

5 Thank you.

6 **JACK POOLE:** Thank you.

7 Microphone number 2. State your name,
8 your affiliation, and whether you're for or against
9 the motion.

10 **KATHRYN SMITH:** Good morning. My name is
11 Kathryn Smith. I'm the chairman of the board of
12 governors for the National Association of Fire
13 Investigators.

14 NAFI is an organization of over 8,000
15 members worldwide, both public and private.

16 **JACK POOLE:** Are you speaking for or
17 against?

18 **KATHRYN SMITH:** I'm sorry. We're speaking
19 against the motion.

20 **JACK POOLE:** Thank you.

21 **KATHRYN SMITH:** NAFI opposes the motion on
22 the floor and endorses a publication of 1321 as a
23 standard.

24 This standard addresses a longstanding
25 need in our industry that provides framework for

1 establishing, maintaining, and the maintenance of
2 fire investigation units.

3 We are proud of NAFI's contribution in the
4 development of 1321 as it stands. And we look
5 forward to seeing the positive impact this standard
6 has on the fire investigation community.

7 Thank you.

8 **JACK POOLE:** Randy, would you like to make
9 a comment on the technical committee's position,
10 please?

11 **RANDY WATSON:** Yes, sir.

12 **JACK POOLE:** I apologize.

13 **RANDY WATSON:** Thank you, Mr. Poole.

14 The technical committee on fire
15 investigation units was established by the standards
16 council in December of 2018.

17 The standards council charged the
18 committee with creating standards relating to the
19 development, composition of fire investigation
20 units.

21 During the initial committee meeting, the
22 committee discussed the process of writing the
23 document, and voted to proceed with writing the
24 document in mandatory language as a standard and in
25 compliance with the manual of style.

1 Mr. Rinaldi submitted a public input at
2 the first draft of the document revision cycle to
3 the technical committee to consider redrafting the
4 proposed standard into a guide format.

5 The technical committee considered the
6 public input. However, voted to keep the format as
7 a standard. A public comment was submitted for the
8 technical committee to reconsider its actions on the
9 first draft.

10 The submitter of the motion was afforded
11 the opportunity to address the technical committee
12 at the second draft meeting on why the document
13 should be a guide versus a standard.

14 Based on the presentation and continued
15 discussion and due consideration on the request, the
16 technical committee determined the new document
17 should be issued as a standard with mandatory
18 language.

19 The technical committee recognizes the
20 perspective of the submitter of the motion but
21 identifies that the document should be written and
22 formatted as a standard.

23 The technical committee identified that
24 the document should be utilized by stakeholders for
25 management, operations of fire investigation units.

1 Mandatory requirements need to be established. The
2 approach aligns with the original project request
3 from OSAC, the Organization of Scientific Area
4 Committees, and direction from the technical
5 committee by the standards council on developing a
6 new standard.

7 A standard better conveys the objectives
8 for improvements and forensic science related to the
9 management operations of fire investigation units
10 and accomplishes the purpose for which the committee
11 was established.

12 The standard establishes the necessary
13 policies a fire investigation unit must have. It
14 does not establish the specifics of what those
15 policies must be.

16 The technical committee recognizes the
17 fire investigation units will differ in size and
18 scope so, therefore, the specific wording of the
19 policies will be different.

20 It is for these reasons stated above that
21 the committee opposes the motions before you today.

22 **JACK POOLE:** Thank you, Randy.

23 And I apologize. I had a non safely
24 moment there for a minute. So we'll get us back on
25 schedule here shortly.

1 With that, now we'll open debate on the
2 motion. Please provide your name, affiliation, and
3 whether you're speaking for or against the motion.

4 Microphone 4.

5 **CASSANDRA JONES:** Hi. My name is
6 Cassandra Jones. I'm the chief operations officer
7 for Forensic Investigations Group, and I'm speaking
8 in opposition of the motion.

9 So I'm also principle committee member for
10 NFPA 1321 who voted in favor of the document being a
11 standard on the ballot for both the first and second
12 drafts of the document.

13 As previously stated, I'm the owner and
14 chief operations officer for Forensic Investigations
15 Group. Our fire investigation unit was the first
16 U.S.-based company to obtain accreditation to ISO
17 17020 for forensic inspections which came with a lot
18 of skepticism by organizations that are now true
19 supporters and have encouraged the development of
20 NFPA 1321 as a standard.

21 Having endured the accreditation process,
22 I can attest to understanding the fear and anxiety
23 that some may be feeling regarding NFPA 1312, which
24 likely spurred the motion that I'm here to speak in
25 opposition of.

1 Utilizing the framework outlined in 17020
2 to establish policies and procedures for our fire
3 investigation unit has not only strengthened our
4 unit as a whole, but has enhanced the quality of
5 each investigators execution in the field.

6 By implementing policies and procedures
7 for the management and the operation of our FIU, we
8 clearly outlined expectations for all aspects of our
9 unit from job performance to data management and
10 file review.

11 Mandatory policies and procedures have
12 resulted in consistency within our agency while
13 creating a system that provides for traceability
14 which, in the long run, has resulted in overall
15 improvements in accountability.

16 The objective in developing NFPA 1321 as a
17 standard which has been a work in progress for the
18 past five years was to create a similar framework to
19 be utilized by all fire investigation units to
20 strengthen management and operations, improving each
21 unit as a whole.

22 The use of mandatory language
23 communications to the user the necessity of
24 consistency and accountability in conducting fire
25 investigations.

1 People see change as a problem because
2 they're not confident in their abilities to adapt to
3 the change. However, this change should be
4 considered as an opportunity for the growth of fire
5 investigations as a forensic science.

6 While implementing the requirements
7 outlined in NFPA 1321 may, on the surface, appear to
8 be a cumbersome endeavor, those who fear the
9 publication are failing to see that their units
10 already have many of the policies outlined in the
11 document. So they will need only to put them down
12 in writing.

13 It is for these reasons that I hope you
14 vote against the motion before you and move forward
15 with publishing NFPA 1321 as a standard for fire
16 investigation units.

17 Thank you.

18 **JACK POOLE:** Thank you.

19 Microphone number 5. State your name,
20 organization, whether you're for or against.

21 **STEPHEN RINALDI:** Stephen Rinaldi, fire
22 marshal with Durango Fire Rescue. I am for the CAM
23 1321-2.

24 **JACK POOLE:** Thank you.

25 **STEPHEN RINALDI:** One of the issues that

1 comes about is that during the technical meetings
2 the chair actually reported that the initial survey
3 conducted by NFPA showed about a 50/50 split with
4 regards to whether or not the standard was even
5 warranted. This signifies a divide in the industry
6 regarding the standard.

7 It also sets up a situation from the start
8 for the standard to be argued in court as to its
9 validity for FIUs. And in court as an AHJ involved
10 in fire investigations, my organization subscribes
11 to NFPA 1730. And if the opposing side uses 1321,
12 it's going to create doubt as to which of these
13 documents takes precedence.

14 And, again, there is duplicative language
15 in 1321 that's already contained within 1730. So my
16 concern is that in moving forward with NFPA 1321
17 as a standard, it's going to be detrimental to the
18 fire investigation field as it's going to involve a
19 lot of litigation with regard to this document
20 because it is going to simply create a checklist for
21 policies used to challenge an investigator's work as
22 opposed to the substance of the investigation
23 itself. This has been based for years on NFPA 1033
24 and 921 itself.

25 Thank you, Mr. Presiding Officer.

1 JACK POOLE: Thank you.

2 Microphone number 4. State your name,
3 organization, and whether you're speaking for or
4 against the motion, please.

5 DAVID SHEPPARD: My name is David
6 Sheppard. I am the chair of the OSAC's subcommittee
7 on fire and explosion investigation.

8 I'm here today to speak in opposition --

9 JACK POOLE: Is this for or against?

10 DAVID SHEPPARD: I am here today to speak
11 in opposition of the motion.

12 JACK POOLE: Thank you.

13 DAVID SHEPPARD: The OSAC submitted the
14 original request to NFPA to create this standard.
15 The Organization of Scientific Areas Committees for
16 forensic sciences, the OSAC, was formed by the
17 United States Department of Justice and NIST in
18 February of 2013 to address weaknesses in forensic
19 sciences identified by the National Academy of
20 Sciences in their 2009 report strengthening of
21 forensic sciences in the United States, a path
22 forward.

23 Fire investigation was identified as one
24 of the forensic science disciplines requiring
25 additional standardization.

1 The OSAC addresses standards for 22
2 forensic science disciplines with over 800 volunteer
3 participants.

4 One of the primary goals of all OSAC
5 committees is to strength the nation's use of
6 forensic science by facilitating development and
7 promoting the use of high quality, technically sound
8 standards to ensure the results of forensic analysis
9 are reliable and reproducible.

10 This serves to build public trust in
11 investigative outcomes and promotes accountability
12 to agencies providing forensic services.

13 When agencies agree to comply with
14 recognized standards and become accredited, they
15 demonstrate a commitment to excellence, continuous
16 improvement, and adherence to best practices.

17 This leads to more reliable, thorough, and
18 impartial investigations.

19 When this standard was proposed, it was
20 not the intent of this OSAC subcommittee to mandate
21 accreditation. It was, however, our intent to
22 provide a document that could be used to facilitate
23 accreditation for those organizations who wish to
24 pursue it. Nothing within the document requires an
25 organization to become accredited.

1 The establishment of a standard will
2 promote consistent application of fire investigation
3 practices, will improve accuracy, and reduce
4 variability in the fire investigation out comes.

5 This consistency among fire investigation
6 organizations will ensure an enhanced collaboration
7 as agencies will know they can rely on each other's
8 practices and procedures.

9 Our committee sees this document as being
10 published as a standard as enhancing fire
11 investigation profession which will lead to greater
12 unity for the following reasons.

13 NFPA 1321 will bolster agency reputations
14 by demonstrating their commitment to high quality
15 investigations.

16 Release of the document as a standard will
17 increase public confidence in investigative
18 outcomes. Uniformity among the FIUs will promote
19 smoother cooperation between agencies as there will
20 be a greater understanding of procedures.

21 In summary, the OSAC subcommittee on fire
22 and explosion investigation, after considering Mr.
23 Rinaldi's concerns, supports the adoption of NFPA
24 1321 as a standard and opposes changing the document
25 to a guide.

1 **JACK POOLE:** Thank you, Mr. Sheppard.

2 Microphone number 5. Your name, your
3 organization, and whether you're speaking for or
4 against the motion, please.

5 **PETER SCHECTER:** Good morning. Pete
6 Schecter, John Deere Global Crop Harvesting, Fire
7 and Explosion Investigation. No. I'm speaking
8 against the motion.

9 **JACK POOLE:** Thank you.

10 **PETER SCHECTER:** In favor of this being a
11 standard. No standard that we create comes out that
12 doesn't cause change or require us to make that
13 change.

14 What's the point of creating a new
15 standard if that were the case. The value here is
16 that this standard is going to provide a lever or a
17 tool for those agencies that don't have sufficient
18 funding or resources or the policies that are in
19 place to improve their operations and show their
20 local elected officials or the people that fund them
21 that they need.

22 A lot of this has to do with the health
23 and safety of fire investigators, which has become
24 quite an issue over the years.

25 I've seen many of my colleagues wind up

1 with terrible diseases that are occupationally
2 related because we didn't have the proper PPE to do
3 our jobs.

4 A lot of private sector non -- any fire
5 investigation unit that's not involved in public
6 education doesn't have the value of having that
7 other standard that rely or fall back on.

8 I support this effort. I support this
9 initiative. All of the litigation stuff is moot.
10 It's always going to be litigated. It's always
11 going to be a problem. They do the same thing with
12 921 now.

13 Passing this standard creates a bar that
14 we can rise to, and it gives us the tool to get
15 there. And I think it's a very good platform to
16 begin that process.

17 Thank you.

18 **JACK POOLE:** Thank you.

19 Is there any other discussion for motion
20 1321-2 to accept public comment number 24?

21 Microphone number 4. State your name,
22 your organization, and whether you're for or against
23 the motion.

24 **THOMAS SING:** Good morning. My name's
25 Tommy Sing. I'm the president and CEO of Quest Fire

1 Analysis. I'm speaking against changing the standard
2 into a guide.

3 I am a principal committee member on 1321.
4 I voted for it being a standard in both the first
5 and second draft meetings.

6 So the reason I'm for this standard is it
7 does promote a professional fire investigation which
8 is more reliable, reliable to the community,
9 reliable to the courts.

10 One of the reasons I'm for this standard
11 is it will promote educational requirements that the
12 fire investigation unit will need to provide to
13 their investigators.

14 We did have a standard 1033 that talks
15 about the professional qualifications of the fire
16 investigator. That is to the investigation or to
17 the investigator by -- as an individual.

18 There's no requirement on the fire
19 investigation unit to have to provide him other than
20 the state mandated minimum requirements which
21 usually relate to the fire service or to law
22 enforcement certifications.

23 As far as the educational levels that are
24 established in 1033, this document as standard in
25 1321 will provide a means and a method for the fire

1 investigation unit administrators to be able to tell
2 their superiors whether it's a public or a private
3 entity a means to be able the tell them why they
4 have to provide educational requirements to their
5 investigators.

6 I have about 42 years of experience in
7 fire investigations. 31 years of that is in the
8 public service. I retired from the Texas State Fire
9 Marshal's Office as the chief investigator.

10 In preparing budgets for the coming year,
11 I often did not have the funds to distribute, but I
12 also, one of the tools I lacked in my arsenal to be
13 able to talk to my superiors was something such as a
14 standard that I could show my superiors that I was
15 required to do so, and it set forth requirements
16 both for the educational and the safety of my
17 investigators.

18 As somebody spoke just a minute ago, PPE
19 is a big deal. Setting forth medical requirements
20 for our investigators is a primary purpose of what
21 I, as a business owner, want to do is make sure that
22 my investigators are conducting investigations
23 safely. This document will provide both public and
24 private administrators a means and an avenue to do
25 so.

1 Thank you.

2 **JACK POOLE:** Thank you.

3 Is there any further discussion on motion
4 1321-2 to accept public comment number 24?

5 Seeing none, Randy, would you like the
6 opportunity for any final comments?

7 **RANDY WATSON:** Yes. Thank you, sir.

8 As I stated earlier, the technical
9 committee was appointed in December of 2018. So the
10 committee has been working diligently over the last
11 five years putting this document together.

12 The committee carefully considered
13 publishing NFPA 1321 as a standard versus a guide.
14 And as a result of the discussion, the debate on
15 this issue, there was overwhelming consensus within
16 the committee on each occasion to move forward as a
17 standard.

18 The committee felt it was in the best
19 interest of the fire investigation community in
20 moving the profession forward to have more
21 professional and consistent fire investigations.

22 The committee currently consists of 30
23 principals and 16 alternates. Of the 30 principals,
24 12 of those are from the public sector either as a
25 user or as an enforcer.

1 These members represent state, local, and
2 federal agencies from around the country involving
3 fire marshal's offices.

4 In addition, the International Association
5 of Arson Investigators is an over 11,000 member
6 international association. It is in the final
7 review of creating a three-day training course for
8 fire investigation unit management and leadership
9 professionals, providing them the education and
10 training to meet the standard requirements and
11 develop standard operating policies where they are
12 needed.

13 I would encourage the membership to vote
14 against this motion so that the document can be
15 released to the users and stakeholders in the fire
16 investigation community as soon as possible.

17 Thank you.

18 **JACK POOLE:** Thank you, Chair Watson.

19 We'll now move on to a vote.

20 Before we vote, let me restate the motion.

21 The motion on the floor is to accept
22 public comment number 24.

23 To vote, touch the vote button.

24 If you wish to vote in support of the
25 motion and recommend the text on the screen one,

1 touch yes.

2 If you wish to vote against the motion and
3 recommend the text on screen two, touch no.

4 Please record your vote.

5 Voting will be closed in five seconds.

6 Vote is closed.

7 So we have 223 no.

8 And 40 yeses.

9 The motion fails.

10 Thank you.

11 Is there anything further discussion on
12 NFPA 1321?

13 That concludes the consideration of all
14 the certified amending motions for NFPA 1321.

15 We will now move on to the next standard
16 in the agenda which is NFPA 150, fire and life
17 safety and animal housing facility codes.

18 Chair Pardoe, will you please present the
19 chair report?

20 **KEITH PARDOE:** Thank you, Mr. Poole.

21 Ladies and gentlemen, the report of the
22 technical committee on animal housing facilities is
23 presented as found in the first draft report and
24 second draft report for the annual 2004 cycle of
25 NFPA 150, fire and life safety and animal housing

1 facilities code.

2 The revision were submitted to letter
3 ballot of the responsible technical committee in
4 accordance with the regulations governing the
5 development of NFPA standards.

6 The reports and ballots results can be
7 found on the next edition tab of the document
8 information page for NFPA 150 at
9 www.NFPA.org/150next.

10 With that reported, I move for the
11 standards council's issuance of the committee's
12 report on NFPA 150, fire and life safety and animal
13 housing's facilities code.

14 **JACK POOLE:** Thank you, Keith.

15 Let's now proceed with the discussion on
16 the grouped certified amending motions which
17 consists of 150-7, 150-8, 150-9, 150-10, 150-11, and
18 150-14. It will be handled as a group.

19 Microphone one.

20 **JAKE LAROSE:** Good morning. My name is
21 Jake LaRose. I'm with Arthur J. Gallagher &
22 Company. And I move to accept group amending motion
23 CAM 7 through 11 and 14 to reject second revision
24 12.

25 **JACK POOLE:** Do I have a second?

1 UNIDENTIFIED SPEAKER: Second.

2 UNIDENTIFIED SPEAKER: Second.

3 JACK POOLE: There is a second. We do
4 have a second.

5 We'll proceed with the discussion.

6 Jake.

7 JAKE LAROSE: Jake LaRose with Arthur J.
8 Gallagher & Company in support of the motion.

9 Gallagher is an insurance broker where I'm
10 a risk control consultant working within the food
11 and agriculture industry, specifically livestock
12 operations.

13 We all understand the importance and
14 benefits of sprinkler systems. And, in general,
15 insurance companies advocate for sprinklers.

16 But as a risk consultant and an NFPA 150
17 committee member, we must put a hold on putting in
18 requirements to sprinkler agricultural animal
19 housing.

20 The proposed requirement for sprinklers
21 would create a burden on the U.S. food supply and
22 provide no clear benefits. Recommendations like
23 this should be made only after doing proper impact
24 studies and test implementations.

25 Some on this committee are animal rights

1 activists. They have their hearts in the right
2 place, but they aren't using science, data, and
3 common sense.

4 You might have noticed that five different
5 organizations representing the users who would
6 seemingly benefit from this requirement submitted
7 CAMs to stop it.

8 I urge this group to approve this motion
9 and refer the issue back to the committee for a more
10 detailed assessment of its needs and feasibility.

11 The committee should focus our efforts of
12 fire safety on preventative and predictive
13 practices. In fact, in 2019, a requirement for
14 detailed risk assessments was added to the code.
15 And since its adoption, we are already seeing its
16 positive impacts.

17 The standard already requires sprinklers
18 for some animal housing facilities, but this change
19 goes too far. This is misguided activism, and it
20 must be stopped.

21 As a risk consultant, I've used NFPA 150
22 and required our clients to follow this standard.
23 Those of us in the insurance industry want to be
24 able to utilize the entire code and not have it be
25 picked apart and amended out at the state or local

1 levels.

2 We in the agricultural community cannot
3 follow NFPA 150 if sprinklers are required in the
4 manner that's being proposed in this cycle.

5 Some of the reasons I urge you to vote yes
6 on this CAM are the following.

7 And some of the subsequent speakers will
8 go into more details.

9 First, the proposed capacity threshold for
10 sprinklering these barns is based on complex EPA
11 rules related to pollutant discharge disregarding
12 construction type, building area, and any other
13 typical thresholds for sprinklers.

14 Second, NFPA 150 will be amended out by
15 state or local jurisdictions risking the loss of all
16 the impactful things within 150.

17 Third, sprinklers can adversely affect ag
18 animals by introducing significant bio security
19 risks.

20 Fourth, sprinkler discharge could
21 potentially overflow manure pits resulting in run
22 off discharging manure in the streams and waterways.

23 Fifth, there is inadequate water supply on
24 many farms.

25 Sixth, it will negatively affect the U.S.

1 food supply and the U.S. economy with no benefit.

2 Seventh, even in the case where a
3 sprinkler system successfully extinguishes a fire,
4 it will still result in the death of animals due to
5 smoke contamination and inhalation.

6 According to the USDA these animals will
7 be unmarketable resulting in their euthanization.
8 Additionally, insurance companies won't pay out loss
9 claims until animals are euthanized.

10 All of these are reasons why even the
11 insurance industry doesn't require sprinklers in
12 barns, which is why I urge you to vote in favor of
13 this CAM.

14 Thank you.

15 **JACK POOLE:** Thank you.

16 Keith, would you like to offer the
17 position of the technical committee?

18 **KEITH PARDOE:** Yes.

19 During the first draft meeting, the
20 committee rejected a public input suggesting
21 sprinkling or on-site fire suppression water
22 supplies for agricultural facilities.

23 The discussion at the meeting and the
24 committee's statement referenced impacts that
25 sprinklers have on these facilities and questioned

1 the effectiveness of these systems would have on
2 saving animals.

3 A task group was assigned to review the
4 code requirements in the agricultural chapter to
5 further examine the protection requirements.

6 The task group provided their report with
7 recommendations to revise the agricultural chapter.
8 The recommendations resulted in the committee
9 revising the sections on detection, means of egress,
10 and water supply. Second revisions 1, 3, 4, and 5.

11 The recommendations did not include adding
12 sprinkler requirements. A separate public comment,
13 PC 1, sought to add a requirement for all class A
14 commercial use agricultural facilities to have
15 sprinkler systems if they exceed a specific size.

16 The technical committee developed SR 2,
17 second revision rather, second version 12, requiring
18 sprinkler protection based on the language from
19 public comment 1 and added an option for the AHJ to
20 permit equivalent protection.

21 The second revision received 16
22 affirmative votes. Three affirmative votes with
23 comments, and three negatives.

24 The committee recognizes that our work on
25 this topic is ongoing. At the end of the second

1 draft meeting, we established a task group to look
2 further into the agricultural chapter and to review
3 data related to fires in those facilities or in
4 these facilities for the next edition.

5 Respectfully submitted by Rebecca Husted
6 on behalf of the animal housing facilities
7 committee.

8 **JACK POOLE:** Thank you.

9 With that, we're going to open the floor
10 for debate on the motion.

11 So when you come to the microphone, please
12 state your name, whether you're speaking for or
13 against the motion, and your organization.

14 And I'm going to do my best to hit a for
15 and against and then a for and against. So if I
16 didn't get you in the order you stepped up to the
17 microphone, that may be the reason why.

18 So I'm going to start with microphone
19 number 6. Name, organization, and for and against?

20 **ALLIE GRANGER:** Allie Granger, Animal
21 Welfare Institute, in opposition to the motion.

22 Thank you all for the opportunity to speak
23 today. I'm a senior policy associate for the Animal
24 Welfare Institute.

25 My organization, which is the only animal

1 protection organization on the committee, might I
2 add, has had its seat on the technical committee on
3 animal housing for over five years now.

4 We have tracked the issue of barn fires
5 and the animal deaths they've caused since 2013.
6 We've published two comprehensive reports on the
7 issue, and we helped assist with the fire protection
8 research foundation's study on fires at animal
9 housing facilities.

10 Since AWI began tracking this issue a
11 decade ago over 8.1 million animals have been killed
12 in barn fires including nearly 7.9 million birds,
13 over 150,000 pigs, and over 25,000 cattle.

14 This discussion taking place today cannot
15 be more timely since it closely follows the
16 deadliest fire involving animals that we know of
17 which killed up to 1.2 million hens. This fire
18 occurred just over three weeks ago at a massive farm
19 in Illinois.

20 The media has reported that it started in
21 the evening in one of several large buildings on
22 site before it quickly spread to a total of three
23 buildings spanning 600 to 900-feet long each.

24 No one was on site at the time of the
25 fire. There was no fire suppression system in the

1 building, and a response was, unfortunately, slow
2 due to a lack of hydrants in the area.

3 This fire follows another that occurred in
4 Utah in April that killed over 100,000 hens, and
5 another in Texas at the beginning of this year that
6 destroyed two massive buildings including one that
7 was three stories high and killed an undisclosed
8 number of animals.

9 Finally, just over a decade -- just over a
10 year ago we witnessed the deadliest fire involving
11 cattle that we know of which killed up to 18,000
12 cows confined to a single 2,000,000 square foot
13 building.

14 These are just a few of many instances in
15 which tens or hundreds of thousands of animals have
16 been killed. And the operations involved are
17 exactly the type that need to be equipped with
18 adequate fire protection measures.

19 To be clear, the proposed requirement
20 doesn't seek to mandate sprinklers in any old
21 backyard barn. This is meant to apply to these newly
22 constructed massive, sprawling operations that house
23 anywhere from several hundred to many thousands of
24 animals or more.

25 The size threshold for this requirement is

1 based on a legal definition established by the EPA
2 and will only apply to operations that confine
3 enough animals to be considered a medium
4 concentrated animal feeding operation.

5 This size threshold differs based on
6 species involved and in some cases the size of
7 animals. The reason this threshold is important is
8 because 90 percent of the millions of animals that
9 have been killed in barn fires over the past decade
10 have been on confinement operations that meet the
11 medium threshold at minimum.

12 I imagine proponents of this motion will
13 say that a lot of progress has been made on this
14 issue. And while that is commendable, the fact
15 remains that most, if not all, large scale animal
16 agriculture operations lack adequate, active fire
17 suppression systems such as sprinklers that are
18 life-saving. As a result, millions of animals are
19 continuing to burn to death or die from smoke.

20 For these reasons, I urge you all to vote
21 against this motion.

22 Thank you.

23 **JACK POOLE:** Thank you.

24 Microphone number 3. Name, organization,
25 and for or against.

1 **LAUREN LURKINS:** Good morning. My name is
2 Lauren Lurkins. I'm representing the United Egg
3 Producers, and I'm speaking in favor of the motion.

4 The threshold that was chosen to require
5 sprinklers in NFPA 150 was U.S. EPA's regulation
6 regarding concentrated animal feeding operations or
7 CAFOs.

8 The purpose of these EPA rules is related
9 to animal waste discharge and water quality and was
10 not intended for use for other purposes, certainly
11 not sprinklers.

12 Per official correspondence dated June
13 17th, 2024 from U.S. EPA's acting deputy director in
14 the Office of Agriculture and Rural Affairs, Dr.
15 Venus Welch-White, quote, EPA itself is unaware of
16 an instance where the term medium concentrated
17 animal feeding operation has been used outside of
18 the Clean Water Act regulatory context, end quote.

19 Furthermore, Dr. Welch-White indicated in
20 the same letter that the use of the regulatory term
21 in the context of the installation of sprinkler
22 systems in animal houses, quote, is an action that
23 falls outside the jurisdictional authorities and
24 application of EPA's CAFO regulatory program, end
25 quote.

1 One obvious shortcoming of the use of
2 EPA's regulation as a threshold of when sprinklers
3 should be used is the EPA's rules are based on
4 whether a discharge to a water of the U.S. has
5 occurred from a manure management system at a
6 concentrated animal feeding operation under the
7 Clean Water Act.

8 Each of those legal terms requires
9 investigation and understanding of numerous factors.
10 There have literally been decades of litigation
11 including multiple supreme court cases over these
12 definitions and EPA's regulation of CAFOs. It is
13 simply not something a local fire marshal or other
14 AHJ can easily determine.

15 Sprinkler requirements should be based on
16 building construction type, building area, or other
17 typical thresholds for sprinklers. The requirement
18 does not take into account the number of buildings
19 on a farm or how many animals are in each building.
20 It doesn't even consider the different animals,
21 their age or their weight.

22 This one-size-fits-all fire prevention
23 approach simply will not work on every farm.
24 Furthermore, if the sprinklers were required and
25 discharged, all the water that would need to be

1 managed to prevent a discharge to a water of the
2 U.S. would need to happen and would very likely
3 cause its own environmental nightmare.

4 In summary, combined with all the other
5 problems with the sprinkler requirement that you
6 will hear today, even the threshold of when animal
7 houses would be required to be sprinklered is not
8 only a complicated analysis, but an inappropriate
9 misuse of EPA regulation.

10 I urge you to vote in favor of the CAM.

11 **JACK POOLE:** Thank you.

12 Microphone number 2.

13 **RITA NEIDERHEISER:** Good morning. Rita
14 Neiderheiser, United Association Sprinkler Fitters
15 Local Union 669 speaking against the motion.

16 If you look at the NFPA 150 fire and life
17 safety animal housing standard, there are seven main
18 animal categories. In those categories, there's a
19 fire sprinkler requirement in most of those except
20 for two.

21 One of those is temporary because of an
22 emergency trying to get an animal out or animals
23 out. An emergency situation. So it's a temporary
24 situation.

25 The only other exemption is agriculture,

1 which is the less reasonable exemption.

2 If you look at the committee statement
3 when we passed the language, it was decided that to
4 provide a consistent level of protection for
5 agricultural facilities exceeding a certain
6 population level.

7 So this is about consistency in the code.
8 If we are going to require one facility to have fire
9 sprinklers and not another facility to have fire
10 sprinklers, it's not consistent.

11 And that if all of us at NFPA and on
12 committees we understand the need for consistency.

13 The other argument about the CAFOs, it is
14 a legal description. It just gives us a standard.
15 Also, the committee said the size was chosen to
16 provide a threshold to omit small facilities from
17 this requirement.

18 So we're not talking about small
19 facilities. We're talking about pretty large
20 facilities if you look at the CAFOs requirement.

21 The other thing is we put fire sprinklers
22 in all kinds of settings, daycare centers, nursing
23 homes, hospitals.

24 Fire sprinklers are not a bio security
25 risk. So I would -- and I also find that pretty

1 offensive that these folks are saying that, but --

2 So, anyway, for me, it is about
3 consistency and that's why I'm here in opposition.

4 The language can stay as it is.

5 Thank you.

6 **JACK POOLE:** Thank you.

7 Microphone number 5. Your name,
8 organization, and for or against.

9 **DAVID SCHILLING:** My name is David
10 Schilling, and I represent the American Farm Bureau
11 Federation as its public policy council.

12 And I speak in favor of the motion. The
13 American Farm Bureau Federation is a voluntary
14 general farm organization representing nearly six
15 million member families through farm bureau
16 organizations in 50 states and Puerto Rico.

17 Our mission is to advance the interests of
18 farmers and ranchers and their communities. I speak
19 in favor of the motion because our members would be
20 adversely impacted by the proposed measure to
21 mandate installation of sprinklers in agricultural
22 barns.

23 One challenge of living and working on a
24 farm is dealing with what is often an inadequate
25 water supply. Most of the farms impacted here are

1 in rural areas without access to municipal water
2 supply.

3 This reality would require on-site storage
4 and fire pumps to generate the required flow and
5 pressure of a sprinkler system. In certain areas,
6 water licenses are required and may not be available
7 for fire protection water.

8 Ultimately, most farm locations simply do
9 not have the water infrastructure to operate
10 sprinkler system at this scale.

11 A substantial storage and distribution
12 system would need to be maintained and tested to
13 ensure the stored water is free from pathogens or
14 toxins that would harm the animals.

15 These steps would be necessary because the
16 water contained in these pipes is stagnant and non-
17 potable, and it contains cutting oil, microbes, and
18 bacteria.

19 Therefore, any time water is released from
20 the sprinkler system during a non-fire condition due
21 to damage, breakage, or leaks, it will find its way
22 into the feed and litter and comprise the health and
23 well-being of the animals in the facility.

24 One other consequence of this requirement
25 if accepted without changes is that it will create

1 yet another unnecessary barrier to animal
2 agriculture in this country, dissuading future
3 farmers and further burdening existing farmers and
4 ranchers.

5 This is important to consider because the
6 number of farms in our country is decreasing.
7 Between 2017 and 2022, the number of farms in the
8 U.S. declined almost by 142,000, 7 percent according
9 to the USDA. And farmers seeing the most
10 significant declines to their incomes in decades and
11 its raising expenses.

12 When adjusted for inflation, USDA reported
13 in February that net farm income, a product
14 predictor of farm profitability, is expected to
15 decrease 27 percent from 2023.

16 Specifically relating to livestock, cash
17 receipts are forecasted to drop by 4.6 billion and
18 overall production expenses are estimated to
19 increase 4 percent over 2023's expenses. The sixth
20 consecutive year of production expense increases,
21 and the fourth consecutive year that production
22 expenses have hit a new record high.

23 These projections paint a clear picture of
24 the problems confronting farmers and ranchers,
25 continued declining revenues and increasing

1 production expenses.

2 Accordingly, we ask that you not place yet
3 another hurdle in front of new and established
4 farmers and ranchers' businesses and that you please
5 vote to accept this amending motion.

6 Thank you.

7 **JACK POOLE:** Thank you.

8 Microphone number 1. Name, organization,
9 and for or against.

10 **MICHAEL FORMICA:** Good morning. I'm
11 Michael Formica. I represent the National Pork
12 Producers Council. And I'm speaking in favor of the
13 motion.

14 This debate is not about sprinklers and
15 the valuable role that they can play in maintaining
16 life and property.

17 This is really about the role of the 150
18 committee in trying to develop -- trying to develop
19 solutions that are focused and targeted at the risks
20 at hand.

21 I have been a member of the 150 committee
22 and have heard the discussions over the last decade.

23 Basically there are three major camps of
24 people on this committee. You have animal welfare
25 folks. You have farmers. And then you have those

1 who are caught in the middle.

2 We have great staff on the committee.

3 Tracy does a fantastic job and many knowledgeable,
4 well-meaning 150 committee members.

5 In previous editions and in the first
6 draft of this edition, the requirement for
7 sprinklers at livestock farms failed.

8 If you look at the second draft ballot of
9 our small committee, nine of these members who were
10 seemingly neutral, nine of a tiny committee, didn't
11 return their ballots at all, and that's why this
12 passed. Nine ballots were not returned.

13 Two of those who voted yes had the ballot
14 comments noting that the ballot wasn't consistent
15 with what the committee voted on and discussed. I
16 can confirm that it was very confusing.

17 So I believe it was an anomaly by the
18 committee that the requirement passed, but this
19 body's members can correct that today by voting yes
20 on this CAM.

21 The provision itself was drafted by animal
22 rights group whose real goal here isn't to add
23 sprinklers to barns, but to put farmers out of
24 business.

25 This, of course, isn't surprising. If you

1 go to their web page, AWIonline.org, and click on
2 about, their mission statement states, and I quote,
3 abolish factory farms.

4 It's a pejorative they use to describe 95
5 percent of the farms where the food you and your
6 family rely on comes from. It's code for
7 eliminating those farms and the food you eat.

8 The group, previously, after working to
9 pass cage-free egg laws issued a report in spring of
10 2021. They didn't blame medium size or large CAFOs.
11 They blamed those same cage-free egg farms that they
12 had add indicated for years.

13 They are constantly moving the goal posts
14 with one goal in mind, abolishing factory farms.
15 That's not the language of reasonable policy debate.
16 By requiring sprinklers on farms, they believe they
17 are one step closer to that goal.

18 The fire code designed for life safety
19 protection isn't the place for political stunts.
20 It's too important. I, for one, love bacon too much
21 to abolish livestock farms and recommend all you
22 bacon lovers please join me in voting yes on this
23 CAM.

24 **JACK POOLE:** Thank you.

25 Microphone number 2. Name, organization,

1 and for or against. Just trying to go in order.

2 **RITA NEIDERHEISER:** Me? I couldn't see
3 which number I am. Sorry about that. Rita
4 Neiderheiser, United Association Sprinkler Fitters
5 Local Union 669, speaking against the motion.

6 Just to speak to the comment about the
7 committees nine that were not returned and some
8 comments, I actually made a comment on my vote in
9 support of this language because there was some
10 typos.

11 I just wanted to make sure that it was,
12 you know, clear. Tracy does do a great job.
13 Unfortunately, she wasn't there for our meeting, and
14 someone else filled in for her.

15 So that was, I think, the problem, not
16 that there -- because we were in agreement those
17 folks that were at the meeting that we had on this
18 and were in agreement on this, and then it passed
19 and it was just a ballot issue.

20 So there wasn't confusion around it other
21 than just some typos, and I think that's probably
22 why some folks didn't vote.

23 So thank you.

24 **JACK POOLE:** Thank you.

25 Microphone number 3.

1 **TIM GESS:** Good morning. My name is Tim
2 Gess. I am a solutions engineer with Prism Controls,
3 and I'm speaking in favor of the motion.

4 Prism Controls has supplied technical
5 solutions to agriculture for over 40 years. Our
6 controls safe labor by automated equipment in the
7 barns, and for the health and safety of the animals,
8 we carefully monitor their environment.

9 But one thing we have learned is to not
10 assume that residential or even industrial devices
11 will work well in animal housing.

12 We do field testing in all seasons, and we
13 sometimes partner with universities for this
14 testing. It takes some work to fully understand what
15 will truly meet a need.

16 The first point I'd like to make is not
17 against sprinklers generally, but that we should not
18 require sprinklers before understanding how they
19 will work on farms with weather exposure, varying
20 type and placement of equipment, structural and air
21 flow factors that can interfere with sprinkler
22 operation.

23 Let's do site testing and feasibility
24 studies before applying a broad rule that can have
25 unintended consequences.

1 Secondly, we should look at the full
2 spectrum of tools available to us. In our homes, we
3 do preventative maintenance. We keep our dryer
4 vents clean. We make sure that the smoke detector
5 batteries are kept fresh. Of course, then the smoke
6 detector themselves are a device that's preemptive.
7 But do we have sprinklers in all of our homes?

8 My point is that regular maintenance and
9 good detection methods provide protection long
10 before sprinklers come into play.

11 Who sprinklers be required on farms
12 nationwide even when they are not the same standard
13 or standards for those facilities for maintenance
14 and early detection? We should put our energy into
15 the right places here.

16 Finally, a broad sprinkler requirement
17 would, without clear benefits, put a serious burden
18 on our food suppliers.

19 A quick look at the data shows that it
20 could affect well over 90 percent of all egg, pork,
21 dairy, beef, and poultry produced in the U.S.

22 Let's do our homework and not enact rules
23 that could be vacated by many AHJs and undermine the
24 credibility of the NFPA.

25 Please vote yes on the motion.

1 **JACK POOLE:** Thank you.

2 Microphone number 6. State your name,
3 organization, whether you're for or against.

4 **ALLIE GRANGER:** Allie Granger, Animal
5 Welfare Institute in opposition to the motion.

6 I, first, would just like to correct the
7 record in terms of what AWI's report says. The
8 issue here is the size of these operations and the
9 number of animals they hold and are killed as a
10 result.

11 So in our report, we clearly say that
12 large operations are -- makeup the majority of the
13 animals that are killed in these fires which is
14 exactly why we're setting the size threshold here
15 today.

16 The second thing I wanted to remind folks
17 is that the requirement provides flexibility to
18 allow for the authority having jurisdiction to waive
19 the requirement if equivalent alternative fire
20 protection measures are in place.

21 Should a sprinkler system truly prove
22 infeasible for any reason, an alternative may be
23 permitted. And the technical committee felt that
24 the authority having jurisdiction is the appropriate
25 party to make that determination in a way that will

1 accommodate extenuating circumstances while ensuring
2 appropriate and adequate life-saving protections are
3 provided.

4 Yes, my organization is an animal welfare
5 organization, but we join the committee with noble
6 intentions in terms of working with all stakeholders
7 to come up with a solution.

8 As I've mentioned in the past decade,
9 millions of animals have been killed from barn
10 fires. Clearly, what's going on is not working. So
11 additional measures need to be put in place.

12 Thank you.

13 **JACK POOLE:** Thank you.

14 Microphone number 1. State your name,
15 organization, whether you're for or against.

16 **EMILY STEAERNS:** Emily Stearns, American
17 Horse Council. And I'm for the CAM.

18 No farmer wants to lose their livelihood.
19 Livestock owners and producers have more incentive
20 than anyone to main the health and safety of their
21 animals. They demonstrate this by practicing fire
22 safety as listed in the current NFPA 150 and by
23 state and local regulations as well as voluntary
24 practices that go beyond.

25 It is important to understand that the

1 current proposed text is based in emotion, not
2 science. A noble cause, but it's design must be
3 supported by research.

4 As the meeting opened, NFPA standards are
5 meant to recognize updates to safety and technology.
6 This current revision does neither.

7 Studies on efficacious fire safety
8 standards in livestock housing are lacking. The
9 data used comes from news reports with limited
10 details.

11 AWI lists 90 barn fires for 2023. The rep
12 from AWI just mentioned the majority of animals, but
13 does not seem concerned with preventing or stopping
14 the majority of fires.

15 Only five of the facilities that
16 experienced a fire on their list would have been
17 required to have sprinklers based on the proposed
18 language.

19 At least 70 percent of fires listed by AWI
20 were at residential hobby farms with no commercial
21 practices.

22 While saving animals is of critical
23 importance, applying a one-size-fits-all solution is
24 not going to solve the problem, and within each
25 species of livestock alone, husbandry and housing

1 practices vary greatly across the country depending
2 on geographic location and climate.

3 There are over 21,000 large CAFOs and an
4 untold number of medium CAFOs. Statistically, they
5 are very safe. This month there was a tragic horse
6 fire in Ohio, and the building was 60,000 square
7 feet, well above the 5,000 square foot threshold of
8 NFPA 150 Chapter 12, which, as noted, you say ag is
9 exempt, but horses are not exempt. And last I
10 checked. We are agriculture. 44 horses perished.
11 And that facility would have been covered under NFPA
12 150 Chapter 12 who are five years on, the majority
13 of states, along with Ohio, have chosen not to adopt
14 it because of difficulty with installing functional
15 systems.

16 Richmond Township, where the fire
17 occurred, has not adopted it at the local level,
18 along with most towns and counties across the
19 country. The representative from Sprinkler
20 Producers has mentioned the need for consistency.

21 NFPA Chapter 12 uses different language
22 for square footage. We are ag. Why are you not
23 using similar ag language for this updated revision?

24 It'll cause difficulty and because of the
25 lack of consistency across application, new

1 facilities will choose to open in locations where
2 the revision will not be implemented.

3 As the committee itself recognizes, the
4 work is ongoing and should continue to be ongoing.

5 I urge you to vote for this motion and
6 allow for more intensive research to create codes
7 that are appropriate.

8 **JACK POOLE:** Thank you.

9 Microphone number 4.

10 **TOM MACCONE:** Hi. I'm Tom Maccone
11 (phonetic) with SCK Safety and Risk Management. I am
12 against the motion.

13 I perform barn surveys on barns of this
14 type all the time, and I would encourage everyone to
15 look to the second bullet point here. The committee
16 considered it thoroughly.

17 I could not have voted yes for this if it
18 was only sprinklers. I'm fully aware I do surveys
19 in the remotest part of the country on some of the
20 biggest barns in the world. And there is no water.
21 We could force it, of course, but we wouldn't.

22 The insurance companies that I work with
23 are willing to write business for farms without
24 sprinklers, but they want to look to item 2, and we
25 have put it in there.

1 The gentleman from Prism got up. I make
2 recommendations. Prism has only recently developed
3 a good smoke detection system for barns. And I'm
4 disappointed that Prism is against this or for the
5 motion because I've been recommending that people
6 get together with Prism to use their advanced smoke
7 detection system because there are no fire detection
8 systems and alarms in barns, either.

9 We can't -- it is hard to get our
10 customers to be point B up here, which is put
11 concrete between the electrical rooms. Put concrete
12 between other rooms in the building.

13 So I encourage everybody to look at bullet
14 point 2 and have faith in our AHJs especially our
15 farm country AHJs who are gonna be totally
16 reasonable about not forcing sprinklers where they
17 won't work.

18 The fact -- the people in here that are
19 saying that sprinklers are gonna cause problems when
20 -- one sprinkler head going off on a fire is one
21 sprinkler head that's gonna spill a small amount of
22 contaminant into the area.

23 A 150-gallon fire hose is going to destroy
24 the environment on that farm for a long time.
25 Remember, these barns are wood barns that burn very

1 quickly. There's no way -- I think everyone knows
2 that there are no overnight attendants in these
3 barns to save money.

4 Part B of this, the AHJ could say, we're
5 going to force that issue. Now, I don't recommend
6 that, but that's one -- another solution that we
7 could come up with.

8 I encourage people to read some of the
9 excellent documents put out by people in this room
10 that are for the motion. There are egg producers
11 that have great loss prevention recommendations
12 other than sprinklers that would fit under number 2.

13 **JACK POOLE:** Thank you.

14 Microphone number 5. State your name,
15 organization, whether you're for or against.

16 **DWAYNE STATLER:** My name is Dwayne Statler
17 (phonetic), a farmer and retired assistant fire
18 chief from McComb, Ohio. I support the motion.

19 In my 32-year career as a rural
20 firefighter, I also served as a firefighter trainer
21 and a member of the Ohio Arson Task Force
22 investigator. Living in a rural area, I've
23 investigated numerous farm fires over the years.

24 It used to be their primary culprit was
25 spontaneous combustion of straw and hay setting wood

1 barns on fire. But with progress, we have mostly
2 eliminated those risks.

3 Not only do people not spoke, but thanks
4 in part to NFPA 150, new barns are constructed of
5 steel and concrete and electrical barriers are
6 sealed off significantly reducing such incidences.

7 While we all recognize the lifesaving
8 importance of sprinklers, there are context where
9 they aren't always suitable in mandatory
10 ventilation.

11 There are many reasons this could be. In
12 agricultural settings like livestock farms, one
13 reason is that they can introduce hazards of bio
14 security protocols critical to protecting our
15 livestock that is in these from diseases.

16 Farmers adhere to strict bio security
17 measures to prevent the disease spread primarily by
18 controlling human access and vehicle movement.

19 These protocols dedicate -- dictate who
20 can enter the animal houses, how many days there
21 must be between a visit from one flock or herd to
22 another, the need to shower in before entering, and
23 what can be worn.

24 There are entire bio security protocols
25 that haven't been considered when introducing these

1 sprinklers. Introducing sprinklers would require
2 regular inspections, maintenance, potentially
3 comprising these protocols, even beyond the
4 difficulties of unfiltered water entering the barn.

5 These risks are all being taken without
6 even the knowledge of how the best placement would
7 be in a totally ventilated barn.

8 At least within the pork industry in
9 conjunction with USDA, university researchers, and
10 our insurance carriers, that research is ongoing
11 right now to understand where these risks come from,
12 how best to address these risks, and what can
13 sprinklers and other technology designed to help
14 without causing additional harm.

15 I personally found technology on the floor
16 yesterday at this event to test in my barns. Any
17 action should wait until after there's a benefit of
18 the research of that result.

19 In closing, I might add that unfortunately
20 we have lost millions and millions more of livestock
21 to high path and disease in the last two years than
22 what anything has occurred in all the fires of the
23 last ten years.

24 As both a fire professional and farmer, I
25 urge you to support this motion.

1 Thank you.

2 **JACK POOLE:** Thank you.

3 Microphone number 2.

4 **ART BLACK:** Thank you, Mr. Chair.

5 My name is Art Black, Carmel Fire

6 Protection. I call to question.

7 **UNIDENTIFIED SPEAKER:** Second.

8 **JACK POOLE:** Thank you.

9 Do we have a second?

10 **UNIDENTIFIED SPEAKER:** Second.

11 **JACK POOLE:** We have plenty of seconds.

12 Thank you.

13 I notice that there were a number of
14 people at the microphones waiting so we're going to
15 vote on calling the question. It takes two-thirds
16 vote to pass.

17 So with that, and we do have plenty of
18 seconds? Are you ready? We're going to take the
19 vote.

20 In order to vote, please scroll down to
21 the bottom of your device and touch the vote button.

22 And if you wish in support of calling to
23 question to cease discussion, type yes.

24 If you wish to continue discussion, type
25 no.

1 Voting with stop in five seconds.

2 Okay. The voting has ceased.

3 I see 319 in favor and 23.

4 So the debate will stop.

5 Keith, would you like the opportunity to
6 make any final comments?

7 **UNIDENTIFIED SPEAKER:** From the floor?

8 The question's been called.

9 **JACK POOLE:** With closing statement.

10 **KEITH PARDOE:** I have none.

11 **JACK POOLE:** Have none. Thank you.

12 So we'll move --

13 **UNIDENTIFIED SPEAKER:** Point of order. On
14 the vote, there are places to vote on all of the
15 numbers. Are they electronically bundled, or do we
16 vote on each one?

17 **JACK POOLE:** So as it's come to our
18 attention that there is voting app lists that these
19 are grouped. However, we are going to vote for 150-
20 7, and that will treat it as a group. So we are
21 voting on 150-7.

22 **UNIDENTIFIED SPEAKER:** Thank you for the
23 clarification.

24 **JACK POOLE:** You're welcome.

25 So if you wish to vote in support of the

1 motion as seen on screen one, type yes.

2 If you wish to vote against the motion as
3 seen on screen two, touch no.

4 Please record your vote.

5 Voting will close in five seconds.

6 Voting is closed.

7 Thank you.

8 The results are 161 in favor. 212 as
9 opposed.

10 The motion failed.

11 Thank you.

12 That concludes the consideration for
13 certified amending motions on NFPA 150.

14 We will now move to the next standard in
15 the agenda, NFPA 20, standard for the installation
16 of stationary pumps for fire protection.

17 Good morning, Milosh. Would you please
18 present the chair's report?

19 **MILOSH PUCHOVSKY:** Good morning, Mr.
20 Poole.

21 Thank you.

22 Ladies and gentlemen, the report of the
23 technical committee on fire pumps for the standard
24 for stationary pumps for fire protection is
25 presented as found in the first draft report and the

1 second draft report for the annual 2024 revision
2 cycle.

3 The technical committee has published a
4 first draft report and a second draft report
5 consisting of revisions to the standard for
6 stationary pumps for fire protection.

7 The revisions were submitted by letter
8 ballot of the responsible committee. The reports
9 and ballot results can be found at the next edition
10 tab of the document information page for standard
11 for stationary pumps for fire protection at
12 www.NFPA.org/20next.

13 With that reported, I move for standards
14 council's issuance of the committee's report on the
15 standard for stationary pumps for fire protection.

16 **JACK POOLE:** Thank you.

17 Now let's proceed on to discussion on to
18 certified amending motion 20-6.

19 Microphone number 1. State your name,
20 organization, for or against and the motion.

21 **KEVIN HALL:** My name is Presiding Officer
22 Kevin Hall with the American Fire Sprinkler
23 Association. And I move to accept public comment 29.

24 **JACK POOLE:** Do I have a second?

25 **UNIDENTIFIED SPEAKER:** Second.

1 **JACK POOLE:** We do have a second.

2 Please proceed with discussion, Mr. Hall.

3 **KEVIN HALL:** Thank you.

4 Kevin Hall, American Fire Sprinkler
5 Association speaking in favor of the motion.

6 This CAM moves to accept PC 29 submitted
7 during the second draft phase of NFPA 20. If it
8 passes the horsepower rating for fire pump motors
9 would need only need to be sized based off the 200
10 percent capacity pulling of that pump performance
11 curve.

12 The required power to operate a fire pump
13 is not a novel concept to the technical committee on
14 fire pumps. It has been debated over the last two
15 cycles in NFPA 20.

16 In the 2022 revision cycle, PIs 91, 92,
17 93, 94, and 95 were submitted to limit the motor
18 capacity to be rated up to 175 percent of the pump's
19 capacity. These were resolved with a statement that
20 the standard requires non-overloading across the
21 entire pump curve.

22 Based on this action the committee wants a
23 pump that is able to perform past the available
24 water supply and cavitate the suction supply lines
25 and destroy the fire pump in lieu of saving the

1 electrical components. This is not reasonable.

2 When the topic was brought up again this
3 cycle, the initial proposal looked to revise the
4 requirement to assign the horsepower rating based on
5 175 percent capacity.

6 This achieved a majority of the first
7 draft meeting but ultimately failed letter ballot.
8 21 affirmative, 12 negative, and resulted in
9 committee input 66 in the first draft report.

10 Public comment was submitted addressing
11 all of the negative votes. In response to the
12 technical committee's negative votes, there were
13 four technical points made in consideration of their
14 concern over the safety factor by proposing
15 horsepower rating being based up to 200 percent
16 capacity instead of the 175 percent previously
17 proposed.

18 In response to their negative ballots, we
19 stated it is not reasonable to expect the fire pump
20 to maintain performance if an underground main
21 ruptures. In fact, it could be argued that it would
22 not be beneficial for that fire pump to continue to
23 run during this catastrophic event due to the risk
24 of additional water damage and damage to the
25 foundation of the structure of a building, depending

1 on the proximity of the break.

2 In any event, the fire pump running during
3 this event would not be providing fire protection.
4 Issues were raised with correlating with other
5 sections. Corresponding PCs were submitted to
6 address that issue. The revision would have no
7 effect on the performance of a fire pump during a
8 normal fire event.

9 For sprinkler systems, for example, they
10 are calculated with at least 50 percent safety
11 margin when we are looking at storage applications
12 based on multiple full-scale fire tests which are
13 used to determine those discharge criterias.

14 One negative vote commented that it
15 indicated the maximum pump load was 150 percent
16 capacity and adding this prescriptive point would
17 clarify that for future editions.

18 Despite the technical rebuttal, the public
19 comment was rejected and -- was rejected and held
20 citing insufficient data to act. No technical
21 reason was provided for the rejection.

22 Based on this committee input, they were
23 able to pump the issue without providing a technical
24 substantiation to the argument, and the action of
25 reject with hold given the history of the issue

1 should not have been an order.

2 Why can the mechanical components of a
3 pump be allowed to cavitate and be destroyed and be
4 considered disposable where the electrical
5 components must be indestructible?

6 This, again, is not reasonable, and I urge
7 you to vote in favor of the motion.

8 **JACK POOLE:** Thank you, Mr. Hall.

9 Milosh, would you like to offer the
10 technical committee's position, please?

11 **MILOSH PUCHOVSKY:** Yes. Thank you, Mr.
12 Poole.

13 This CAM proposes to accept public comment
14 39 on 4.7.6. The submitter seeks to accept the
15 revisions limiting the power of the fire pump driver
16 to operate the pump up to 200 percent of the rated
17 flow.

18 At the first draft meeting, the technical
19 committee revised 4.7.6 to limit the power of the
20 fire pump driver to operate up to 175 percent of the
21 rated flow. However, this failed balloting of the
22 technical committee.

23 At the second draft meeting, the technical
24 committee rejected but held the proposed revision of
25 the 4.7.6 to limit the power of the fire pump driver

1 to operate up to 200 percent of the rated flow.

2 The technical committee was not presented
3 with data to justify the reduction in the driver
4 sizing. Currently, fire pump drivers are sized to
5 operate at any flow condition.

6 If the power of the fire pump driver is
7 reduced and an overflow condition occurs, the fire
8 pump may run into an overload condition and damage
9 the controller disabling the fire pump.

10 **JACK POOLE:** Thank you.

11 With that, we'll open debate on the
12 motion.

13 Please provide your name, affiliation,
14 whether you're speaking for or against the motion.

15 Microphone number 5.

16 **MICHAEL JONAS:** Good morning. Michael
17 Jonas representing the National Fire Sprinkler
18 Association engineering and standards committee.

19 I'm speaking in favor of the motion. The
20 standard as mentioned currently requires the driver
21 to be selected and provide the power to operate the
22 pump at rated speed and maximum pump load under any
23 flow condition.

24 The statement of any flow condition is
25 that the currently defined by the standard and often

1 left open to interpretation.

2 Sizing the fire pump driver to any flow
3 condition can be interpreted such that the driver is
4 exceptionally oversized to accommodate flow
5 conditions such as complete failure of the
6 distribution system.

7 Providing a requirement to size the driver
8 based on 200 percent of the pump's rated capacity
9 provides a specific and reasonable requirement in
10 the standard that is no longer left open to
11 interpretation.

12 Fire protection systems in general are
13 designed, installed, inspected, and maintained with
14 various appropriate safety factors. They are not
15 expected to operate under any condition.

16 Applying a safety factor to the fire pump
17 driver size is in line with how other components of
18 the systems they serve are sized.

19 Thank you.

20 **JACK POOLE:** Thank you.

21 Microphone number 6. State your name,
22 affiliation, and whether you're for or against.

23 **TONY SPENCER:** Name is Tony Spencer. I'm
24 here representing the Hydraulic Institute fire pump
25 committee. We are opposing the motion.

1 Our position is that many fire pumps have
2 the capability to operate beyond 200 percent of
3 rated flow. Field conditions regarding such in
4 supply are possible to support this.

5 During a single fire event situations of
6 discharge are also possible that may demand more
7 flow than expected. Therefore, we should not
8 arbitrarily limit the pump's ability to operate
9 under these conditions.

10 The Hydraulic Institute fire pump
11 committee supports a proposal of a task group which
12 includes UL and FM to review the requirements on
13 suction pressure limits and pipe velocities that
14 affect pump performance to the right of the rated
15 flow points.

16 If the listing and approval agencies both
17 are not a line with NFPA, conflicts and confusion in
18 the marketplace will ensue and only hurt and hinder
19 the users of those being protected by the pumps.

20 NFPA 20 established a new test group to
21 look deeper into the subject and present
22 recommendations for the next revision cycle. The
23 task group should be given an opportunity to
24 evaluate the issues from all perspectives prior to
25 considering a change to the standard.

1 Thank you.

2 **JACK POOLE:** Thank you.

3 Microphone number 5. State your name,
4 your affiliation, whether you're for our against the
5 motion, please.

6 **PETER SCHWAB:** Thank you.

7 Peter Schwab with Wayne Automatic Fire
8 Sprinklers. I'm speaking in support of the motion.

9 The issue is unintended consequences. So
10 this change that happened previously and now that
11 we're over sizing these pumps, if anyone heard of
12 Hurricane Ian which came to South Florida and pretty
13 much wiped out every fire pump in the basement of
14 every building in South Florida, and then we had to
15 start replacing these fire pumps.

16 And as we went to order new fire pumps, we
17 went -- these were a little older fire pumps, but
18 this could have happened with a pump we bought six,
19 seven years ago, we went to replace the pump and we
20 couldn't buy the pump because the horsepower have
21 increased.

22 So now we have to tell a building owner
23 that, yes, your pump, it's seven years old. You're
24 going to have to come in and replace your electrical
25 supply.

1 So there's unintended consequences, and
2 the gentleman that spoke previously brought up a
3 great point, that we need a task group. This issue
4 needs to be explored a lot deeper but 200 percent
5 rate of flow is a good compromise for this current
6 situation.

7 So I ask you to vote in favor of this
8 motion.

9 Thank you.

10 **JACK POOLE:** Thank you.

11 Microphone number 4. Name, affiliation,
12 whether you're speaking for or against.

13 **BRIAN HOLLAND:** Thank you, sir.

14 My name is Brian Holland, and I represent
15 the National Electrical Manufacturers Association.
16 And we are speaking in opposition to CAM 20-6.

17 We ask the membership to uphold the
18 committee's decision to resolve public comment
19 number 29 to allow this established task group to
20 study the issue and provide the committee verifiable
21 data that substantiates a change to the section and
22 the correlating driver rating sections during the
23 next revision cycle or perhaps via a TIA.

24 Sizing the driver the operate the pump at
25 rated speed and maximum pump load under any flow

1 condition ensures the driver, the controllers, and
2 any associated circuit conductors are not overloaded
3 and will not prematurely fail.

4 Fire pump driver failure of this nature
5 can be catastrophic to the system and may include
6 destructive ground faults, short circuits, fire, or
7 worse, URD, unintended rapid disassembly of driver
8 itself.

9 We urge the membership to reject this CAM
10 by voting no to maintain the fire pump driver
11 reliability and overall system safety.

12 Thank you for your time and consideration
13 of NEMA's position on this important matter.

14 **JACK POOLE:** Thank you.

15 Microphone number 1.

16 **KEVIN HALL:** Thank you.

17 Kevin Hall, American Fire Sprinkler
18 Association speaking in favor of the motion.

19 To some of the other points, some other
20 issues that we see with not having a concrete number
21 two rate these fire pump motors to on the
22 manufacturer side, the current requirement
23 essentially rewards an inefficient design.

24 So to obtain a lower horsepower rating,
25 most manufacturer curves will go to that 150 percent

1 capacity point, which is the maximum demand that a
2 fire pump can utilize or fire protection downstream,
3 and then sharply cut it off.

4 When we're looking at standpipe systems,
5 vertical standpipe system zones, we really want the
6 flattest curve possible in order to have the most
7 efficient design and the most cost effective design
8 when we install our systems.

9 As one of the previous speakers mentioned,
10 when it comes to the retrofit aspect, we're now
11 seeing fire pumps that were installed 15, 20 years
12 ago that were basically those fire pumps were
13 manufactured when the requirement was interpreted to
14 mean up to 150 percent capacity, and now instead of
15 just replacing them in kind, we're needing to
16 replace them with horsepower ratings that have to
17 increase water sizing, increase controller types.

18 So it's at increased cost to the owners
19 just to comply with this new interpretation of a
20 section that really hasn't changed for quite some
21 time.

22 So we really do need that number in there.
23 There is no technical substantiation that you're
24 going to be able to do research and all the other
25 things that the task group is going to be looking

1 for to find that perfect number.

2 It's an engineering decision using
3 engineering judgment, provide the safety factor.
4 The pump is not intended to supply anything beyond
5 150 percent capacity. That's what it's designed for.

6 If you have a 33 percent overage in your
7 flow, something has gone wrong, and we provide
8 reasonable fire protection for a single fire within
9 the building.

10 For those reasons, I would support the
11 motion, and urge you to vote in favor of CAM 20.6.

12 Thank you.

13 **JACK POOLE:** Thank you.

14 Microphone number 2. State your name,
15 organization, and your affiliation, whether you're
16 for or against.

17 **BILL PANCAKE:** Thank you, Mr. Chairman.

18 My name is Bill Pancake. I work with CAP
19 Government, most of all, operations manager. We
20 vote against.

21 Speaking on behalf of the electrical
22 inspection section of the NFPA as the official
23 representative and speaking against the motion, this
24 electrical inspection section had its business
25 meeting on Monday of this week.

1 And at that meeting, the section voted not
2 to support this motion.

3 Thank you.

4 **JACK POOLE:** Thank you.

5 Microphone number 5. State your name,
6 organization, whether you're for or against.

7 **GREG JAKUBOWSKI:** Greg Jakubowski, Buckeye
8 Partners. I'm responsible for 130 facilities with
9 more than 80 fire pumps this date back into the
10 1960s.

11 We replace about two fire pumps every
12 year. In general at almost all of our facilities,
13 the level of hazard has not increased since the time
14 the original fire pumps have been installed, but we
15 run into the same problems that have been mentioned
16 before about having to change the infrastructure
17 because the pump needs to be upsized or changed to
18 address this.

19 So I'd like to see the compromise as has
20 been mentioned and send back to the committee for
21 further research to see where we can go on this.
22 Our problems haven't changed as far as the hazard,
23 but now we're being required to change all the
24 infrastructure to upgrade our pumps.

25 Thank you.

1 **JACK POOLE:** So you're speaking in support
2 of the motion.

3 **GREG JAKUBOWSKI:** I am in support of the
4 motion.

5 Thank you.

6 **JACK POOLE:** Thank you.

7 Microphone number 6.

8 **STEVEN GORDON:** Good morning. Steve
9 Gordon, Peerless Pump. I'm speaking in opposition
10 to the motion.

11 I'm on the NFPA 20 committee, as well.
12 Our position is that this 200 percent is an
13 arbitrary number.

14 When we're looking at the fire protection
15 that we are currently providing, the system, whether
16 it's a sprinkler system, a deluge system, et cetera,
17 it could easily exceed 200 percent and then overload
18 the motor, motor, driver, controller.

19 The issue that we think we have not
20 addressed is in the testing. The testing is what
21 actually drove our horsepower requirements up where
22 we are talking about increasing the suction pressure
23 on the pumps during the test and as mentioned by
24 Hydraulic Institute, we need to look at design and
25 control of the suction side of the pump as opposed

1 to just the arbitrary 200 percent side on the
2 discharge side of the pump.

3 So the task force needs to be able to have
4 a chance to do their work to get this position
5 established and make sure that the system will
6 operate, the pump system will operate under any flow
7 condition.

8 Again, it's not just sprinkler systems.
9 There's deluge systems, monitor systems, tank
10 systems, foam systems that can be driven by a listed
11 fire pump.

12 Final position is that one death at 201
13 percent of rated flow is unacceptable to us and we
14 believe that we should continue to find a better
15 solution than what we currently have. And we are
16 open to, obviously, looking at the unintended
17 consequences and will at the retrofit market as
18 well.

19 Thank you.

20 **JACK POOLE:** Thank you.

21 Microphone number 3. Name, organization,
22 and for or against.

23 **JOHN DENHARDT:** John Denhardt, the
24 American Fire Sprinkler Association speaking in
25 support of the motion.

1 We've heard a lot of testimony in the last
2 10, 15 minutes. But I want to make sure everybody
3 is clear here. A fire pump by design that can only
4 be used from zero to 150 percent of its rated flow.

5 We're not taking anything away. The
6 language hasn't changed for years. But read the
7 language that's currently in the book. Under any
8 flow condition, does that mean infinity? How far do
9 we have to take this?

10 As engineers, as professionals in the
11 business, we size pumps to handle a certain load.
12 We are allowed to go to 150 percent.

13 Due to some testing criteria and other
14 things, we are sizing motors though to be
15 indestructible. Drivers to be indestructible.

16 And while I want great fire protection,
17 what is that added cost? What is that added cost to
18 the engineers, to the generator size, the wire size?

19 If we really have a serious issue, and say
20 our flow demand is 1200 gallons, we've got a 1500
21 gallon, 1,000 gallon pump, 1500 gallon max and we're
22 flowing 200 percent, 2,000 plus, we lost the battle
23 already.

24 That's what the fire service is there to
25 do and have to handle it out. If I below an

1 underground out, you can expect the pump to burn up.
2 What these proponents are talking about right now or
3 the people arguing against this, we're talking about
4 the driver size.

5 Nobody's talking about the water supply.
6 The water supply only has to meet the system demand
7 or the rating of the pump. That's it. So what the
8 hell happens when we have no water? The pumps still
9 going to run. The motor's still gonna run. The
10 pump ain't gonna do anything.

11 We don't need to make this bullet proof to
12 the Nth degree. The only thing this does is clarify
13 and gives the listing labs a number that NFPA 20 is
14 acceptable with.

15 I have a lot of installations as a
16 sprinkler contractor. I am going back to owners now
17 and telling them their 40 horsepower that was good
18 for 20 years, I pick up the manufacturer, the exact
19 same pump is now a 50 horsepower. What do I do?
20 Increase the generator size? The wire size, and the
21 controllers.

22 Thank you very much for your time. I am a
23 member of the NFPA 20 technical committee.

24 Thank you.

25 **JACK POOLE:** Thank you.

1 Microphone number 4. State your name,
2 organization, and whether you're for or against the
3 motion.

4 **WILLS LACROSSE:** Hi. My name is Wills
5 LaCrosse, and I'm with LaCrosse Engineering. And I
6 am opposed to the motion.

7 Back in the day, in '75, I think the codes
8 were under any flow condition. At some point,
9 people started to go to areas that you would put it
10 at 150 percent. And that's where all the motors
11 were kind of undersized.

12 It is very easy to run a pump past that
13 150 percent point. Very easy. When I test fire
14 pumps in the field, I generally go from zero to max,
15 max load regardless of the 150 percent because I
16 want to know if there was a major fire that it will
17 not overload that motor. It will not overload that
18 diesel.

19 The other condition is is if you have a
20 generator system and you overload the generator on
21 the -- if you're on the emergency generator side,
22 you can overload that engine very easily, you know,
23 the generator, the voltage will drop, and it will
24 kick out the fire pump and stop the fire pump.

25 So there's other issues that you have to

1 consider when you're talking about non-overloading
2 at any point on the curve.

3 Now, the pump curve will always go down.
4 So you're not -- there is a maximum amount of water
5 that that pump will flow as it meets the system
6 demand. So there's a good chance that this is a
7 dangerous change, I think, to limit it to 200
8 percent.

9 A lot of the pump companies have pumps
10 that are dual rated so you can have a 5,000 GPM fire
11 pump but it's rated at 2500 or at 2,000.

12 So if that pump is selected at 2,000 has
13 the capacity for going out to five or 6,000, if you
14 limited that horsepower to just that 200 percent
15 point, then there's a good chance that you will
16 overload it very easily in the system as you're
17 trying to fight a fire.

18 So I would vote against this, oppose this
19 motion. Let's not limit it. Have it under any flow
20 condition. There's nothing wrong with it. The ones
21 that are installed that you're having to change the
22 horsepowers and stuff and upgrade the system, well,
23 that's a good thing.

24 Let's upgrade it so that we don't overload
25 that pump at any point on the curve.

1 Thank you.

2 **JACK POOLE:** Thank you.

3 Microphone number 5. State your name.
4 Organization, whether you're for or against the
5 motion, please.

6 **GARY IKE:** Yeah, I'm Gary Ike, Talco Fire
7 Systems. I'm in favor of the motion.

8 **JACK POOLE:** For or against?

9 **GARY IKE:** For.

10 When the pump manufacturers test pumps for
11 horsepower, they're required to continue to add
12 suction pressure and force water into the pump into
13 horsepower either peaks or breaks over and begins to
14 drop.

15 So basically you're force feeding the pump
16 an amount of water through the pump to drive it out
17 on its curve in order to make this happen, and
18 there's no limit to this.

19 It's under these conditions you could push
20 the pump to a point where it's actually off of its
21 curve. It's not even on its published curve because
22 you're continuing to force water through the pump.

23 And the goal is to try to find out where
24 is peak horsepower. And this is how its defined.
25 So this is where horsepower ratings come from.

1 Okay?

2 NFPA 20 gives us suction line sizes for
3 these pumps, for example, that are not going to
4 allow this to happen in the field.

5 For example, a 1500 gallon a minute pump
6 if we were to operate that at 200 percent of rated
7 flow with the standard suction sizing of eight inch,
8 the line velocity on the suction side would be 19.1
9 feet per second.

10 You're not going to get to 19.1 feet per
11 second line velocity in any municipal installation
12 obviously out of a tank.

13 If you had that much suction pressure
14 available, you would not need a fire pump.

15 The limiting factor in horsepower in the
16 situation is not the load of the pump is going to be
17 because you're going to break suction at that point.
18 Load's going to drop off so most of the other
19 capacities are similar. 2,000 a minute pump at 200
20 percent line velocity on the suction side 16.3 feet.
21 2500 gallon a minute pump, 20.4 feet per second at
22 200 percent. 5,000 gallon a minute pump, 20.8 feet
23 per second at 200 percent.

24 So think 200 percent rated flow is a very
25 reasonable limit for horsepower.

1 Thank you.

2 **JACK POOLE:** Thank you.

3 Microphone number 6. State your name,
4 organization, whether you're for or against the
5 motion, please.

6 **BILL STELTER:** I'm Bill Stelter
7 representing Master Control Systems, a fire pump
8 control manufacturer. We oppose the motion on the
9 floor.

10 Passage of this motion will put paragraph
11 4.7.6 in direct conflict with paragraph 9.5.2.1 in
12 the motor section.

13 This reads: The motor capacity and
14 horsepower shall be such that the maximum motor
15 current in any phase under any condition of pump
16 load and voltage unbalance shall need exceed the
17 motor rated full load current multiplied by the
18 service factor.

19 Fire pump controllers are designed to hold
20 300 percent rated current without tripping. So I
21 previously conducted testing on fire pump
22 controllers at 300 percent rated current.

23 After ten minutes, the wire insulation was
24 melting off the conductors. Once this happens, bare
25 copper is exposed that will start shorting to ground

1 or to other line conductors and destroy the fire
2 pump controller.

3 This level of current will also destroy
4 the incoming service conductors and the motor. The
5 actual fire pump motor horsepower drawn is
6 controlled by the fire pump performance.

7 Since we are not tripping at anything less
8 than 300 percent, the only way to control the
9 overload is to size the motor for any condition of
10 pump load as required by existing 9521.

11 This motion should be rejected to the NFPA
12 20 task force can evaluate all the issues.

13 Thank you.

14 **JACK POOLE:** Thank you.

15 Microphone number 1. State your name,
16 organization, whether you're for or against the
17 motion, please.

18 **MARK HOPKINS:** Thank you.

19 Mark Hopkins, Summit Fire Consulting, in
20 favor of the motion.

21 So I think looking at maximum pump load
22 under any flow condition while I appreciate the idea
23 of allowing this to be very conservative, it adds
24 too much conservatism, and I usually apply very
25 conservative appropriate to things, but, you know,

1 I've been taught and understood for many years that
2 pumps operate between 90 and 150 percent capacity.

3 And, really, as design professionals, we
4 try to even narrow that window so that we're not
5 going out to that maximum load standpoint. But even
6 if you are at that point, it's still, from a design
7 perspective, is limited to 150 percent capacity. 200
8 percent already adds a level of conservatism that is
9 beyond what we are typically including in our
10 designs.

11 So going beyond that and over sizing the
12 pump isn't really helpful because every other
13 component in that system is based on the flows and
14 pressures that are inherent to the original design
15 perspective.

16 And so if, you know, now we're going to
17 make this change and allow pumps to be used further,
18 then we need to go back and re-evaluate how much
19 capacity and how much pressure we get out of these
20 pumps.

21 So that said, I'm in support of the
22 motion.

23 Thank you.

24 **JACK POOLE:** Thank you.

25 Microphone number 6.

1 **DAVID FULLER:** Thank you.

2 David Fuller, FM Approvals, speaking
3 against the motion. And I'll be brief.

4 There is no change here. As you've heard,
5 the existing driver sizing rules have been in place
6 for many years. Submitters proposals were discussed
7 at length at both the first and second draft.

8 There was a lack of substantiation
9 provided and some technical challenges with the
10 submitter's proposed language, and that language is
11 being proposed here.

12 In the interest of getting this right, the
13 committee has formed a task group to review this
14 issue and develop a well-substantiated approach the
15 next cycle.

16 The existing driver sizing rules have
17 served us well. There's nothing that warrants
18 immediate action.

19 Please allow the task group the
20 opportunity to get this right and oppose this
21 motion.

22 Thank you.

23 **JACK POOLE:** Thank you.

24 Now microphone number 6.

25 **MIKE DEMKOWSKI:** Mike Demkowski

1 (phonetic), Clarke Fire Protection Products,
2 manufacturer of diesel engine fire pump drivers,
3 oppose the motion.

4 And we share the opinions of NEMA and the
5 Hydraulic Institute.

6 Thank you.

7 **JACK POOLE:** Thank you.

8 Microphone number 6, again.

9 **AARON JOHNSON:** My name is Aaron Johnson,
10 Fire Lion Global, and I am in opposition to the
11 motion.

12 So there have been a lot of testimony
13 today with experts in the field, whether it is the
14 electrical side, fire pump side, whatever it may be.

15 I'm going to approach this a little bit
16 differently. So I'm a first responder back in the
17 state of Wisconsin. I am an active firefighter.

18 As we approach these types of scenarios
19 and these types of situations, being a firefighter
20 and responding to these types of scenarios, it is a
21 reassuring factor in our brain that there is a fire
22 pump on-site that is going to be running at any one
23 of these types of scenarios.

24 I want to have as much water as possible
25 as long as it is not going against the process of

1 trying to, you know, mitigate the situation, and
2 also put the fire out.

3 Per the testimony previously today, if
4 there is any life loss at 201 percent or more, it is
5 unacceptable in this industry.

6 First and foremost with NFPA, we are a
7 life safety industry, and we need to approach things
8 in that manner.

9 So I am opposed to this motion.

10 Thank you.

11 **JACK POOLE:** Thank you.

12 Microphone number 3. Your name,
13 affiliation, whether you're for or against, please.

14 **STEVEN BAIRD:** Yes. My name's Steven
15 Baird. I'm with Armstrong Fluid Technology. I'm
16 speaking in favor of the motion.

17 Armstrong Fluid Technology is a global
18 manufacturer of fire pumps, and I'm principal member
19 on the NFPA 20 committee.

20 I'm speaking in favor of the motion
21 because as the rule's written today, it encourages,
22 and in fact forces, fire pump manufacturers to
23 develop pumps which essentially dive, have their
24 curves dive after 150 percent.

25 In order to be competitive, you have to

1 maintain the lowest driver size possible. And with
2 the current rule, the only way to do that is to have
3 the pressure produced by the pump drop-off as
4 quickly as possible after 150 percent.

5 So for folks who are worried about, you
6 know, conditions above 200 percent of rated flow,
7 many of the new pumps being developed won't even get
8 there. You will have no usable pressure at that
9 point anyway.

10 So by changing this rule to put in a firm
11 number at 200 percent of rated flow, you're actually
12 going to be developing better fire pumps which will
13 be safer in the field.

14 Thank you.

15 **JACK POOLE:** Thank you.

16 Is there any further discussion on motion
17 20-6 to accept public comment number 29?

18 Yes, microphone number 6.

19 **TONY SPENCER:** Again, Tony Spencer
20 representing Hydraulic Institute. It was mentioned
21 before --

22 **JACK POOLE:** For or against the motion?

23 **TONY SPENCER:** Sorry. Against.

24 It was mentioned before about the suction
25 supply and the pipe sizing guides that are in 4.28.

1 These are minimum sizes. I've seen
2 installations where there's main supplies that are
3 larger than what the pump requires. Often city
4 pressures sitting near 80 plus PSI. In that
5 scenario will provide enough MPSHA to support that
6 pump if it's capable of operating beyond 200
7 percent.

8 Again, opposing.

9 Thank you.

10 **JACK POOLE:** Thank you.

11 Microphone number 5. Name, organization,
12 and whether you're for or against the motion,
13 please.

14 **CECIL BILBO:** Cecil Bilbo with the Academy
15 of Fire Sprinkler Technology. I am in favor of the
16 motion.

17 For reasons that come from my career with
18 teaching and understandability, when it comes to
19 putting parts and pieces together, having a number
20 to meet is always better.

21 In this case under any flow would leave me
22 at a loss on any job site, any time, doing any plan
23 review or helping someone in a plan review.

24 I think having a quantifiable number here
25 is desirable.

1 I vote in favor of this motion. I will
2 vote in favor of this motion.

3 **JACK POOLE:** Thank you.

4 Microphone number 6. Name, organization,
5 whether you're speaking for or against the motion,
6 please.

7 **TAYLOR BONET:** Hello. My name is Taylor
8 Bonet (phonetic) with Hexmodal (phonetic), and I
9 call to question.

10 **UNIDENTIFIED SPEAKER:** Second.

11 **JACK POOLE:** Okay. We have a motion to
12 call the question.

13 Do we have a second?

14 **UNIDENTIFIED SPEAKER:** Second.

15 **JACK POOLE:** We have many seconds.

16 So go to the bottom of your screen and
17 pull up the vote button.

18 Type yes to vote in favor of calling the
19 question.

20 No against calling the question, which
21 would continue debate.

22 Voting will stop in five seconds.

23 Okay. 285 in favor of calling the
24 question.

25 And six opposed.

1 So with that, we'll move on to taking the
2 vote.

3 So before we vote, let me restate the
4 motion.

5 The motion on the floor is to accept
6 public comment number 29.

7 Hit your vote button if you wish to
8 support the motion as referenced on screen one,
9 touch yes.

10 Against the motion per screen two, touch
11 no.

12 Please record your vote.

13 Voting will be closed in five seconds.

14 Thank you.

15 Voting is closed.

16 The results on the vote, 237 in favor. 109
17 against.

18 The motion passes.

19 Is there any further discussion on NFPA
20 20?

21 This concludes the consideration for
22 certified amending motions on number 20, NFPA 20.

23 And we're going to move to NFPA 318 right
24 after we take a break. So we will be back at 10:40.
25 So about 15 minutes. We will start back at 10:40.

1 (WHEREUPON, a recess was taken.)

2 JACK POOLE: Okay. If we can start
3 finding our seats.

4 Okay. If everybody can find their seats.
5 We're going to proceed on certified amending motion
6 318-2.

7 Okay. Vince, will you please go ahead and
8 present the chair report, please.

9 VINCENT DEGIORGIO: Thank you, Mr. Poole.

10 And, ladies and gentlemen, the report of
11 the technical committee on semiconductor and related
12 facilities is presented as found in the first draft
13 report and the second draft report for the annual
14 2024 revision cycle.

15 The technical committee published a first
16 draft report and a second draft report consisting of
17 revisions to NFPA 318 standard for the protection of
18 semiconductor fabrication facilities.

19 The revisions were submitted by letter
20 ballot of the responsible technical committee on
21 semiconductor and related facilities.

22 The reports and ballot results can be
23 found at the next edition tab of the document
24 information page for NFPA 318 at
25 www.NFPA.org/318next.

1 With that reported, I move for standards
2 council issuance of the committee report on NFPA
3 318.

4 **JACK POOLE:** Thank you, Vincent.

5 Now let's proceed with the discussion on
6 the certified amending motion 318-2.

7 Microphone number 5.

8 **MARCELO HIRSCHLER:** Marcelo Hirschler, GBH
9 International, speaking for NFRA, and I move to --
10 for certified amending motion to reject an
11 identifiable part of second revision number 6.

12 **JACK POOLE:** Thank you.

13 There is a motion on the floor to reject
14 an identifiable part of second revision number 6.

15 Is there a second?

16 **UNIDENTIFIED SPEAKER:** Second.

17 **JACK POOLE:** Okay. We have a second.

18 Please proceed with the discussion.

19 **MARCELO HIRSCHLER:** Thank you.

20 I urge you --

21 **JACK POOLE:** Same discussion, and for or
22 against if you can explain that, please, so we have
23 it for the record.

24 **MARCELO HIRSCHLER:** I'm for the motion.

25 I'm making the motion. I'm for the motion.

1 If you wouldn't mind, please go to page 58
2 of the report of the motions committee so you see
3 what the committee actually approved.

4 And so to start with, I need to apologize.
5 I'm a fire test geek. Not too many of you people
6 here are fire test geeks.

7 I've been living fire testing for the last
8 40 years. Most of you, one test is the same as
9 every other test.

10 What the committee's doing here is saying
11 that the test for non-combustibility's ASTM E 119,
12 ASTM E 119 is a test to determine fire resistance
13 rating.

14 Fire resistance rating is what you do if
15 you have a fire in one compartment and you want to
16 know whether the assembly prevents the fire from
17 penetrating into the second compartment. Then it
18 puts a laundry list of other tests that you might
19 use for non-combustibility.

20 For the last 50 years at least, the tests
21 that we use for non-combustibility is one and one
22 only. ASTM E 136.

23 I happen to be the technical contact in
24 ASTM E 54, ASTM E 136. And I've been that for about
25 ten years now.

1 ASTM E 136 is called standard test method
2 for assessing combustibility materials using a
3 vertical tube furnace.

4 This is what the test is for assessing
5 combustibility. ASTM E 119 is not a test for
6 assessing combustibility.

7 Then the committee offers another series
8 of options. ASTM D 1929, a test for ignition of
9 plastics. ASTM E 84 the famous or infamous standard
10 towel test for testing horizontal flame spread and
11 so on and so on and so forth.

12 There is only one test that is used in
13 this country for assessing non-combustibility,
14 that's ASTM E 136. It has been there for over 50
15 years, and that is all that this CAM does. Just say
16 the only test for non-combustibility is ASTM E 136.

17 Thank you.

18 **JACK POOLE:** Thank you, Marcelo.

19 Vincent, would you like to offer the
20 technical committee's position?

21 **VINCENT DEGIORGIO:** Yes. Thank you, Mr.
22 Poole.

23 The technical committee reviewed public
24 comment number 8 at the first draft meeting which
25 proposed new requirements for non-combustible

1 materials in Chapter 4.

2 The committee created input number 8 to
3 form the task group on non-combustible terminology
4 to review the uses of the term non-combustible
5 throughout the document and review the enforceable
6 requirements that would apply to non-combustible
7 materials.

8 The task group also reviewed applicable
9 international test standards that should be
10 considered as references with any new requirements.

11 During the second draft meeting, the task
12 group on non-combustible terminology provided a
13 report and made recommendation to create the second
14 revisions to delete the definition of non-
15 combustible in Chapter 3 and create a second
16 revision to add new requirement for non-combustible
17 material in Chapter 4.

18 Second revision number 7 was created to
19 remove the definition for non-combustible in Chapter
20 3.

21 Second revision number 6 was created to
22 add a new Chapter 4 requirements for non-combustible
23 material that also included annex information
24 listing recognized test standards for materials
25 regularly found in semiconductor fabrication.

1 **JACK POOLE:** Thank you.

2 With that, we're going to open debate on
3 the motion.

4 So you can come to the microphones, please
5 state your name, affiliation, and whether you're
6 speaking for or against the motion.

7 Microphone number 5. That's you, Marcelo.

8 **MARCELO HIRSCHLER:** Sorry. Thank you.

9 Marcelo Hirschler, GBH International,
10 speaking for NFRA and in support of the motion.

11 The chairman didn't address the issue. He
12 said that they looked at a number of test methods.
13 Correct.

14 But only one of the test methods that are
15 in their list is a test for non-combustibility. And
16 the one that they say you should use is ASTM E 119.

17 I am sure there's some people in here at
18 least who have run fire resistance test when you
19 talk about the fire rating of assemblies such as
20 walls, ceilings, floors, whatever. That's what ASTM
21 E 119 measures.

22 It doesn't measure anything to do with
23 non-combustibility. The only test we use in the
24 United States for non-combustibility is ASTM E 136.
25 It's been there for over 50 years.

1 Please support.

2 Thank you.

3 **JACK POOLE:** Thank you.

4 Microphone number 4. State your name,
5 organization, and whether you're for or against the
6 motion.

7 **STEVE SKALKO:** I'm Steve Skalko, Skalko &
8 Associates from Macon, Georgia, speaking in support
9 of the motion.

10 And my comment, very simply, is if you
11 look at ASTM E 119, it is a test for doing fire
12 resistance ratings. It's not a test for determining
13 combustibility or non-combustibility.

14 In fact, you can do some assemblies that
15 have combustible materials that will, in fact, pass
16 the ASTM E 119 test.

17 I recommend you support the motion.

18 **JACK POOLE:** Thank you.

19 Microphone number 5. Name, organization,
20 whether you're for or against the motion.

21 **DAVID DE VRIES:** Thank you.

22 I'm David de Vries, Firetech Engineering,
23 Incorporated, and I'm in favor of the motion.

24 Reading from ASTM E 119 it says: This
25 test method is intended to evaluate the duration for

1 which the types of assemblies noted in 1.1 contain a
2 fire, retain their structural integrity, or exhibit
3 both properties dependent upon the type of assembly
4 involved during a predetermined test exposure.

5 This does not address the issue of
6 combustibility, non-combustibility.

7 I urge the assembly to vote in favor of
8 the motion.

9 Thank you.

10 **JACK POOLE:** Thank you.

11 Is there any further discussion on motion
12 318-2 to reject an identifiable part of second
13 revision number 6?

14 Seeing nobody at the microphone, Vincent,
15 would you like the opportunity for any final
16 comments?

17 **VINCENT DEGIORGIO:** No further comment.

18 **JACK POOLE:** Thank you.

19 Okay. We're going to move on to the vote.

20 Please go to the bottom of your screen.

21 So before we vote, just to be clear, the
22 motion on the floor is to reject an identifiable
23 part of second revision number 6.

24 Touch the vote bottom yes if you're in
25 favor of the text on screen one or what's referenced

1 in the pages -- I can't read it from here -- 56, 58.

2 And no for those on pages 58 to 59.

3 Please record your vote.

4 Voting will close in five seconds.

5 Voting is closed.

6 Thank you.

7 The results of vote are 216 in favor of
8 the motion.

9 And 76 oppose the motion.

10 The motion passes.

11 We're going to move on to 318-1.

12 Marcelo, I see you at the microphone.

13 **MARCELO HIRSCHLER:** Marcelo Hirschler, GBH
14 International speaking for NFRA, and I will not
15 pursue this motion.

16 **JACK POOLE:** Thank you.

17 So certified amending motion 318-1 which
18 appeared on agenda, and it's going to be removed
19 from the agenda.

20 Good enough.

21 Seeing the maker of the motion, we're
22 going to proceed not to do anything with this one in
23 accordance with the rules and regulation, and we'll
24 proceed that way.

25 So with that, we are going to -- this

1 concludes the NFPA 318 certified amending motions.

2 We'll now move on to the next standard in
3 the agenda, which is NFPA 80, which is a standard
4 for fire doors and other opening protectives.

5 Welcome back, Keith. Will you please
6 present the chair report when you're ready.

7 **KEITH PARDOE:** Thank you.

8 Ladies and gentlemen, the report of the
9 technical committee on fire doors and windows of
10 NFPA 80, standard for fire doors and other opening
11 protectives is presented as found in the first draft
12 report and the second draft report for the annual
13 2024 cycle.

14 The technical committee has published a
15 first draft report and a second draft report
16 consisting of revisions to NFPA 80.

17 The revisions were submitted by letter
18 ballot of the responsible committee. The reports
19 and ballot results can be found at the next edition
20 tab of the document information page for NFPA 80 at
21 the NFPA website.

22 With that reported, I move for the
23 standards council's issuance of the committee's
24 report on NFPA 80, standard for fire doors and other
25 opening protectives.

1 **JACK POOLE:** Thank you, Keith.

2 Now let's proceed with the discussion on
3 certified amending motion 80-3.

4 Microphone number 1.

5 **BILL KOFFEL:** Bill Koffel, Koffel
6 Associates. I would move certified amending motion
7 80-3, which is to reject second revision number 15
8 including any related portions of first revisions
9 and first correlating revisions.

10 **JACK POOLE:** Thank you.

11 There's a motion on the floor to reject
12 the second revision number 15 in accordance with the
13 related portions of first revision and first
14 correlated revisions.

15 Do I have a second?

16 **UNIDENTIFIED SPEAKER:** Second.

17 **JACK POOLE:** So we have a second.

18 Please proceed with the discussion, Mr.
19 Koffel.

20 **BILL KOFFEL:** Bill Koffel, Koffel
21 Associates, and on this item I'm speaking for
22 myself. That will change when we get to a
23 subsequent item.

24 To make it simple, we are simply trying to
25 return the language in NFPA 80 to the language

1 that's in the current edition of NFPA 80.

2 Now, during the revision process, the
3 committee looked at some public input and public
4 comments that made some revisions to these
5 paragraphs.

6 In responding to the public comments, the
7 committee said it is imperative for the AHJ to be
8 involved in the determination of inaccessible
9 conditions. I agree. And this change doesn't
10 change that.

11 It is outside the scope of NFPA 80 to
12 determine who is the AHJ. I agree. This change
13 doesn't do anything with that.

14 And how the AHJ applies the standards. I
15 disagree. Enforceability of NFPA codes and
16 standards is a critical aspect.

17 So what's the issue? The issue is that
18 the current language says a building owner can make
19 a determination that a damper is not accessible,
20 safe accessible for inspection or test.

21 Now, if I make that determination and the
22 authority having jurisdiction comes in to my
23 building and says, no, I disagree, they're going to
24 say I have to do that inspection or test.

25 What the committee said in their changes,

1 where approved by the authority having jurisdiction.
2 So now we're putting the burden, the responsibility
3 and the liability on the authority having
4 jurisdiction to make a determination that access to
5 that damper -- that that damper is not accessible.

6 As a previous AHJ, I don't want that.
7 It's on thing for me to approve it when you tell me
8 and you provide the basis for that. It's a second
9 thing if you're asking me to come in and make that
10 determination.

11 Now, with regard to health care, it is
12 impossible, and this is the enforceability issue, it
13 is impossible for a healthcare facility to comply
14 with the requirements as proposed by the committee
15 because it is requiring prior approval by the AHJ.

16 And the certification agency for
17 healthcare facilities in the U.S. has a see-it,
18 cite-it attitude. They will not make a decision
19 before they come in and tell you there's a
20 deficiency.

21 So, again, I encourage you to return the
22 language to the 2022 edition and prior editions. It
23 has worked well.

24 One last comment. The same provision is
25 in NFPA 105. This same committee's responsible for

1 it in the same cycle, and they didn't make a change.

2 So if you support this motion, there will
3 be consistency between NFPA 80 and NFPA 105.

4 Thank you.

5 **JACK POOLE:** Thank you, Bill.

6 Keith, would you like to offer the
7 position of the technical committee on this?

8 **KEITH PARDOE:** Yes. At the first draft
9 meeting of the technical committee created -- at the
10 first draft meeting, the technical committee created
11 their first draft revision modifying the existing
12 requirements in 193413 which exempt inaccessible
13 dampers from periodic inspections.

14 The first revision added language to
15 require approval by the AHJ as well as a requirement
16 for documentation.

17 The first revision also modified the
18 associated annex material to provide guidance on
19 what conditions could be considered inaccessible and
20 the need for a risk assessment.

21 The technical committee inside that
22 dampers can become inaccessible due to construction
23 or physical impediments and periodic inspection is
24 difficult or infeasible without modification to the
25 building or a building's systems.

1 The technical committee discussed
2 circumstances where the damper does not pose a
3 significant risk to any building systems or a life
4 safety risk to the building occupants and,
5 therefore, periodic inspections are not required.

6 However, if a damper is designated as
7 inaccessible and is not going to be inspected
8 periodically, the technical committee -- gotta keep
9 you in suspense -- considered it essential that the
10 AHJ approve this condition.

11 The first revision passed ballot by a vote
12 of 43 and 1 negative. At the second draft meeting,
13 the technical committee reviewed multiple public
14 comments and created a second revision which
15 modified the first draft report language changing
16 the term not accessible to inaccessible and requires
17 the AHJ to designate a damper as inaccessible.

18 The technical committee indicated in their
19 committee statement that it is imperative for the
20 AHJ to be involved in the determination of an
21 inaccessible condition.

22 The technical committee was concerned that
23 without this language the building owners would
24 potentially designate dampers as inaccessible due to
25 inconvenience rather than inaccessibility or

1 designate dampers critical to life safety of
2 building occupants as inaccessible.

3 The second revision passed ballot by a
4 vote of 39 affirmative to 4 negative.

5 Thank you.

6 **JACK POOLE:** Thank you, Keith.

7 With that, we're going to open debate on
8 this motion.

9 Please provide your name, affiliation,
10 whether you're speaking for or against the motion.

11 I'm going to go to microphone number 6 on
12 my right. Name, affiliation, and for or against.

13 **CHRISTOPHER RUKE:** Christopher Ruke
14 (phonetic), National Energy Management Institute,
15 speaking in opposition of the motion.

16 Specifically I believe this corrects a
17 mistake that was made. There was an issue here that
18 many of us in the field saw where you were able to
19 pick a single life safety device and without proving
20 any documentation to the AHJ simply say that I was
21 unable to get to it.

22 As a field technician, spending most of my
23 life crawling into places in buildings, happily
24 being the eyes and ears of the AHJ, I never came
25 across a damper that I could not get to.

1 So to be very clear, this is a rare
2 incident. Now, it doesn't mean there wasn't dampers
3 that weren't difficult to get to. I had plenty of
4 apprentices come and tell me they can't get to that
5 damper, and I, at a much larger size, would have to
6 show them that you could.

7 There was times that I had to cut through
8 duct, make an access panel to get to the damper.

9 So to be clear here, the point is is that
10 this is a very rare incident. All that's being
11 asked by the technical committee is that the
12 technician, who's saying they can't get to it,
13 simply can't just not give a reason.

14 They have to provide documentation of
15 exactly why they couldn't get to it. Then the AHJ
16 can agree or disagree with that.

17 This is a very important precedence that
18 we're setting here meaning that are we allowing the
19 technician to override the code, or should the
20 technician have to prove the extreme nature of the
21 issue to the AHJ, and then let the AHJ do their job
22 to override the code in a specific incidence.

23 Allowing a building owner or contractor
24 with clear economic incentives to overrule the code
25 without any documented justification sets a

1 dangerous precedence that will negatively affect
2 building patrons and first responders that depend on
3 these life safety devices that were put there for a
4 reason to operate as intended during an event.

5 Thank you.

6 **JACK POOLE:** Thank you.

7 Microphone number 5 here in the center.

8 **JIM PETERKIN:** Thank you.

9 Jim Peterkin with TLC Engineering
10 Solutions representing the health care section in
11 support of the motion.

12 The health care section met earlier this
13 week and voted to support this motion as a section.

14 But to address some of the points he made,
15 again, we don't disagree that it should be a very
16 rare situation. It's not going to be ones that are
17 difficult to get to.

18 It is truly inaccessible. I can't get to
19 it. And, yes, we want the AHJ's approval. And we
20 have to document it, as he said. It has to be fully
21 documented. I can't get to it.

22 But to try to get the approval of the AHJ
23 before is just impossible in the health care
24 section, in the health care industry.

25 You know, health care section or health

1 care industry is probably the one that is doing the
2 most damper inspections of any industry.

3 I mean, I work in multiple industries. I
4 don't know any of the other industries that are
5 being asked for their damper inspection reports on
6 an annual basis or on a semiannual or multiple year
7 basis.

8 So we are doing it. We've just identified
9 these issues that you can't get to that damper.
10 It's a single damper in a system. That's the only
11 one -- you can only take one.

12 So I think we agree that a lot of the
13 requirements are the same. It's just as Bill
14 pointed out, we've got multiple AHJs that we have to
15 satisfy. So to try to get all of those approval
16 ahead of time. Hey, if we've identified one we say
17 is inaccessible and it's just difficult, we're going
18 to get cited for that. And they're going to have to
19 fix it.

20 So I urge you to support the motion.

21 **JACK POOLE:** Thank you.

22 Microphone number 4. Name, affiliation,
23 for or against.

24 **DEONA BRILL:** Name's Deona Brill
25 (phonetic), Western States Council Sheet Metal

1 Workers. I'm speaking in opposition to the
2 amendment.

3 A single damper that is not accessible
4 brings into question how it was ever inspected or
5 installed in the first -- correctly in the first
6 place.

7 Regular maintenance is critical to ensure
8 that these life safety systems devices function as
9 intended. If we strike this requirement as the
10 proposed amendment suggests, we would be putting the
11 safety of our buildings, occupants, and first
12 responders at further risk.

13 A malfunctioning damper that fails the
14 close during a fire event could allow the blaze
15 and/or the toxic smoke to spread rapidly and
16 jeopardizing lives.

17 The truth is, there is a clear financial
18 incentive to avoid performing these inspections and
19 maintenance on difficult to access items.

20 The authority having jurisdiction should
21 make the determination based on a thorough objective
22 assessment.

23 Furthermore, if a damper is truly
24 inaccessible, doesn't that indicate a broader issue
25 with the building's design or construction that

1 should be addressed.

2 By removing the requirement without
3 technical justification and leaving the judgment to
4 whomever, we jeopardize the safety of our first
5 responders, occupants. And this is too much to
6 gamble with.

7 I urge a vote to fail this amendment and
8 preserve the AHJ's right to make a thorough,
9 objective assessments.

10 Thank you.

11 **JACK POOLE:** Thank you.

12 Microphone number 1.

13 **BILL KOFFEL:** Bill Koffel, Koffel
14 Associates, again, representing myself in support of
15 the motion.

16 Again, I want to remind the group, nothing
17 is changing technically. It's a single damper. It
18 is an inaccessible damper in an existing building.

19 The only discussion here should be focused
20 on when does the AHJ get involved? Do they have to
21 come into the building ahead of time and make a
22 ruling, determination, that says you don't have
23 access to that damper you don't have to inspect or
24 test that damper, or does the owner or the
25 contractor get an opportunity to do that, and then

1 if the AHJ disagrees when they do their periodic
2 inspection, they're going to say I disagree. The
3 AHJ is still involved.

4 Now, somebody mentioned a precedent. The
5 committee's language is setting a precedent that is
6 different than other NFPA codes and standards.

7 There is language in NFPA 25 that says I
8 don't have to inspect in inaccessible spaces. There
9 is language in NFPA 72 that says I don't have to
10 inspect in inaccessible spaces, the fire alarm and
11 sprinkler components of my system.

12 None of those documents say it requires
13 prior approval by the AHJ. So for those of you that
14 perform that type of service, what's your thought?
15 Should the AHJ have to make that determination or is
16 that something you make as you're performing that
17 service?

18 Again, I encourage you to support the
19 motion.

20 **JACK POOLE:** Thank you.

21 Microphone number 6. Name, affiliation,
22 for or against.

23 **JEREMY ZEEDYK:** Thank you.

24 Jeremy Zeedyk, National Energy Management
25 Institute. I'm speaking against the motion.

1 I've some serious concerns about the
2 language that's being proposed in this amendment,
3 and I think as a field technician and an NFPA
4 member, I have some concern with measures that use
5 terms like might not pose a significant risk.

6 That's a scary proposition for me. Think
7 about that in context of other things that you might
8 interact with in a life safety sort of way using the
9 terms might not.

10 It might not cause electrocution. It
11 might protect you. It might extinguish the fire.
12 It might provide clean air. It might not turn on.
13 It might turn on. It might not cause amputations.
14 That is a very scary proposition when we're talking
15 about might not pose a significant risk.

16 And that is being determined, as I read
17 this, by the individual testing this. That should
18 not be. It should be determined by an AHJ, by an
19 engineer having technical justification for why it
20 cannot be done and why it might not pose a
21 significant risk. That is very, very problematic to
22 me.

23 And, again, someone had already mentioned
24 that there was some financial incentive to the
25 person to not have to take that extra step to do

1 something that could be difficult in that event.

2 So, again, I urge you to vote against this
3 amendment and protect the integrity of the safety
4 protection for all of the technicians and the
5 occupants of the building.

6 Thank you.

7 **JACK POOLE:** Thank you.

8 Microphone number 5.

9 **DAVE DAGENAIS:** Dave Dagenais, Wentworth-
10 Douglass Hospital, Mass General Brigham, speaking in
11 favor of the motion.

12 This has nothing to do with whether or not
13 the AHJ has the authority and/or the ability to
14 provide feedback and identify whether it's
15 accessible or not.

16 The question here is when does that occur?
17 Ultimately during any inspection within health care,
18 and I'm a health care owner rep, the realty is they
19 come out, and they identify whether they agree or
20 disagree with your assessment.

21 Mr. Koffel indicated that it is impossible
22 for health care to achieve this in advance. That is
23 factually true. I cannot call my AHJs whether it's
24 at the state level or at the federal level, and
25 they're going to proactively come out and evaluate

1 this in advance.

2 So day one when this goes in, I cannot
3 comply with this. So it basically says it is not
4 possible to achieve.

5 Nothing's broken with the way that it is
6 now. The reality is is that -- and it was stated
7 earlier -- that health care probably, among all the
8 industries, gets the most inspections associated
9 with this.

10 And today if they come out and the AHJ
11 says I don't think it's accessible, then we get a
12 finding, and we have to deal with that
13 accessibility.

14 This is not intended to just give a free
15 rein of everyone just deeming things inaccessible.
16 It's really a very limited occasion but it's
17 virtually impossible for health care to achieve
18 this.

19 So I urge folks to really evaluate --
20 we're not putting any lives in jeopardy here. This
21 already exists, the ability.

22 The conversation is 100 percent about does
23 the AHJ have to approve it first or does the AHJ
24 have the ultimate approval right that they always
25 have had.

1 The AHJs don't have the name and/nor
2 resources to deal with this.

3 So I urge you to support the motion.

4 **JACK POOLE:** Thank you.

5 Microphone number 4. State your name,
6 affiliation, whether you're for or against the
7 motion, please.

8 **CASSANDRA KLEIN:** Cassandra Klein
9 representing the International Certification Board
10 speaking in opposition of the motion.

11 For accessible dampers, in instances where
12 a damper is not easily accessible, there is a
13 potential risk of violating other provisions
14 outlined in applicable codes.

15 This concern would make it necessary that
16 there is an involvement of the AHJ to assess the
17 situation and grant permission to the building owner
18 for potential deviations from the code requirements.

19 By placing the decision-making
20 responsibility in the hands of the AHJ rather than
21 solely on the building owner, a comprehensive and
22 informed assessment can be made taking into account
23 the expertise and authority of the AHJ.

24 This approach ensures that all relevant
25 factors are considered, mitigates potential legal

1 and safety issues, and upholds the integrity of the
2 codes.

3 Thank you.

4 **JACK POOLE:** Microphone number 5.

5 **MARCELO HIRSCHLER:** Marcelo Hirschler, GBH
6 International, speaking for myself on this, and in
7 support of the motion.

8 One of the opponents pointed out the words
9 might not affect. I just want to point out that
10 these words are in the annex, and the annex of all
11 it is NFPA documents is informative.

12 So we cannot put in there words that are
13 definitive. We only have to put words that are non-
14 mandatory, that are informational.

15 So don't get mislead by the comment about
16 might not. That's an annex word. It's appropriate
17 for the annex.

18 Please support.

19 Thank you.

20 **JACK POOLE:** Thank you.

21 Microphone number 6. Name, organization,
22 for or against.

23 **CHRISTOPHER RUKE:** Christopher Ruke, NEMI,
24 speaking in opposition to the motion.

25 I want to clear this up because the

1 language is not on the screen. So I'd ask everyone
2 to please look at the language for this.

3 If this motion fails, what it would state
4 is in existing fully ducted HVAC systems periodic
5 testing -- in existing fully ducted HVAC systems
6 periodic testing shall not be required when
7 documented as required by 20.3.4.3 for a single
8 damper with a rated barrier shaft that is designated
9 by the AHJ to be inaccessible.

10 So, to be clear, me as a technician must
11 come up with the proof ahead of time for this rare
12 incident where I'm absolutely positive it's
13 inaccessible.

14 Now, it was mentioned by one of the others
15 that were not removing the documentation, but yet
16 this language strikes when documented as required by
17 20.3.4.3.

18 It then strikes that is designated by the
19 AHJ to be inaccessible.

20 What's of great concern is in the annex.
21 In here, they took out all the language saying what
22 inaccessible is. So they're taking away the tool
23 for the AHJ to look at it and say, no. That is
24 inaccessible or that is not inaccessible.

25 Thank you.

1 **JACK POOLE:** Thank you.

2 Microphone number 3. Name, organization,
3 for or against, please.

4 **JOSHUA BRACKETT:** Joshua Brackett, Banner
5 Health, and I'm speaking in support of the motion.

6 I represent Banner Health, and we are one
7 of the largest health care systems in the nation.
8 31 hospitals across six states. 30 -- almost 30
9 million square feet.

10 And we face -- we do face times where we
11 can have dampers that are inaccessible. I have
12 personally tested thousands of dampers teaching
13 other people the proper ways to test them.

14 And I think what I've heard is that we've
15 never seen dampers that can't -- can't be
16 accessible. I think we're missing the word safely
17 there because I have seen some where we will violate
18 every single OSHA rule to get to a damper that
19 cannot be tested in a safe manner.

20 And we have to work around that to find
21 ways where we can. But there are times when there
22 is no way to be able to test a damper in a safe
23 manner.

24 Going back to, again, it shouldn't have
25 been installed that way to begin with, which is a

1 completely different issue that we are not talking
2 about.

3 This is about when it's an existing
4 building and it cannot be done safely.

5 Also, we have multiple authorities having
6 jurisdictions in health care. As we brought up and
7 as we mentioned, one of our primary ones is the
8 Center for Medicare and Medicare Resources, CMS, who
9 cannot and will not come out and provide any
10 guidance on if it is or is not accessible or not.
11 And I know this because I run all of our surveys for
12 all of our hospitals and clinics.

13 There is no mechanism for me to get
14 approval from are an AHJ when it is inaccessible.
15 And no matter what any fire marshal or anybody says
16 it is a different authority having jurisdiction that
17 we will have to get authority -- this approval from.

18 As an owner, as somebody who's responsible
19 for making the determination based on risk of the
20 organization, it is my job to be able to make that
21 determination.

22 Thank you.

23 **JACK POOLE:** Thank you.

24 Microphone number 2.

25 **SHANE CLARY:** Shane M. Clary, Bay Alarm

1 Company, Concord, California, and I rise to call the
2 question.

3 **UNIDENTIFIED SPEAKER:** Second.

4 **JACK POOLE:** There is a motion on the
5 floor to call the question.

6 I see there was a couple of other people
7 with microphones, but we will proceed with the
8 motion to call the question.

9 I did hear several seconds.

10 So go to the bottom of your device, touch
11 vote.

12 And touch yes if you agree to call the
13 question ceasing debate.

14 No if you want to continue to debate.

15 Please record your vote.

16 The vote will close in five seconds.

17 Okay. Voting is ceased.

18 Motion passes 308 in favor of calling the
19 question. 21 voting no to calling the question.

20 So before we vote, let me restate the
21 motion.

22 The motion on the floor is to reject
23 second revision number 15 including any related
24 portions of first revision or second correlating
25 revisions.

1 Touch vote.

2 If you touch yes, you're voting for the
3 verbiage that's shown in the text session report on
4 screen one.

5 And no which is reflected on screen two.

6 Two with your vote.

7 Voting will close in five seconds.

8 Okay. The results of the vote are 186 in
9 favor.

10 And 166 opposed.

11 The motion carries.

12 Okay. Now let's proceed on with
13 discussion for a grouped certified amending motion
14 80-2 and 80-6.

15 Microphone 1.

16 **BILL KOFFEL:** Bill Koffel, Koffel
17 Associates, on this item I am representing AMCA
18 International.

19 I am moving CAM 80-2, which is to reject
20 second revision 33 and any related portions of first
21 revisions and first correlating revisions.

22 **JACK POOLE:** So there's a motion on the
23 floor to reject second revision number 33 and any
24 related portions of first revisions and first
25 correlating revisions.

1 Is there a second?

2 **UNIDENTIFIED SPEAKER:** Second.

3 **JACK POOLE:** Okay. We do have a second.

4 Please proceed with the discussion, Mr.

5 Koffel.

6 **BILL KOFFEL:** Thank you.

7 Bill Koffel, Koffel Associates

8 representing AMCA again in support of the motion on

9 the floor.

10 So this is a totally different issue.

11 This is an issue where since the 19 -- 2019 edition

12 of NFPA 80 and the move forward we're going to have

13 the same motion for 105, have allowed technology for

14 remote inspection and testing of dampers.

15 The committee in this revision cycle

16 decided to not accept that technology.

17 So the first thing I would encourage many

18 of us to think about is the future is remote

19 inspection monitored testing. And this is a

20 position to go against that concept of remote

21 testing and damper -- or remote inspection and

22 testing of dampers.

23 Now, what the committee said is -- because

24 they were challenged during this second draft

25 process, why are you saying this out? Where's the

1 documentation?

2 Not a single incident of failure has been
3 documented by the committee of this technology.

4 Instead, they want you to say and go down the path
5 of, well, it is an existing building and changes
6 will be made to the building. Okay.

7 And those changes are going to be in the
8 vicinity of where this damper is. Okay.

9 And those changes might affect the
10 reliability of this damper because somebody might
11 run a cable through the duct underneath the damper,
12 a condition that is not accepted by any mechanical
13 code or NFPA code or standard.

14 So they are assuming you have to have a
15 change. The change is not done properly. And it's
16 not caught at the time we did this rehabilitation.
17 That is the only technical basis they have given for
18 not accepting this new technology.

19 And I'll stop there.

20 **JACK POOLE:** Thank you, Bill.

21 Keith, would you like to offer the
22 position of the technical committee.

23 **KEITH PARDOE:** Yes.

24 At the first draft meeting of the
25 technical committee drafted a first revision to

1 require visual inspection of dampers at least once
2 for every third cycle of the required periodic
3 inspection.

4 This provision requires dampers utilizing
5 the remote inspection method to have a visual
6 inspection every 12 or 18 years in buildings
7 containing a hospital.

8 This requirement does not impact periodic
9 inspections for dampers which do not utilize the
10 remote inspection method.

11 This requirement was added due to concerns
12 by the technical committee that dampers can be
13 rendered nonfunctional due to changes in the
14 building.

15 The first revision passed the ballot by a
16 vote of 38 affirmative and five negative. There
17 were seven public comments seeking to delete the
18 requirement as shown in the first draft report,
19 which were rejected by the technical committee
20 because no data was provided to support that remote
21 inspection's equivalent to visual inspection over
22 the lifespan of a damper.

23 At the second draft meeting, the technical
24 committee drafted a second revision relocating this
25 requirement under the heading for remote inspection

1 method.

2 As this requirement is only applicable to
3 installations which utilize the remote inspection
4 method, the second revision passed the ballot by a
5 vote of 37 affirmative and five negative.

6 Thank you.

7 **JACK POOLE:** Thank you, Keith.

8 With that, we're going to open debate on
9 the floor. Please provide your name, affiliation,
10 whether you're speaking for or against the motion.

11 Microphone number 5, Mr. Beebe.

12 **CHAD BEEBE:** Thank you, Mr. Chair.

13 Chad Beebe, American Hospital Association,
14 and I'm in support of the motion and maker of the
15 other motion on this.

16 A lot of people might be wondering what is
17 American Hospital's stake in this, and I wanted to
18 give you a little bit of background.

19 Nearly 90,000 die every single year of an
20 infection that they acquire in a hospital. We are
21 after trying to eliminate those deaths as much as
22 possible.

23 How do we get to that, to dampers with
24 this?

25 30,000 of those people die from pneumonia.

1 The other 60,000 die from contact and patient to
2 patient contact and surface contact issues and
3 infection control issues.

4 The pneumonia ones are the ones that scare
5 us the most. 20,000 people die each year of
6 aspergillus. Aspergillus is a fungi. It's in our
7 environment. It's around us in this room.

8 As healthy humans, we can fight it off.
9 When we breathe it in, it is not a big deal.

10 In a hospital, when you have
11 immunosuppressed patients that breathe in
12 aspergillus, that aspergillus can actually land in
13 the lungs. They can actually develop into more
14 spores and grow until pneumonia begins, and the
15 patient can die.

16 Sadly, this happened in Seattle Children's
17 Hospital where 14 children were actually infected.
18 Six of them, unfortunately, passed away from
19 hospital-acquired infection with aspergillus.

20 We need to stop there. Where does
21 aspergillus come from in the environment though in a
22 hospital? We control it with our ventilation, with
23 our air changes per hour, our air pressure
24 relationships, cleaning, and filtration.

25 When aspergillus comes into the facility,

1 we try to control it as much as possible and keep it
2 out of those areas.

3 Our biggest problem is that aspergillus
4 likes to grow in areas like dark spaces such as
5 ceiling cavities and wall cavities.

6 And when we open up a ceiling cavity to
7 inspect a damper, this exposes the patients to
8 millions of these spores.

9 That's why these deaths happen. We want
10 to control these deaths. We want to eliminate these
11 20,000 deaths.

12 So I'm asking for your support in this
13 motion. Visual inspection is not needed if you have
14 a very good remote inspection program in place and
15 NFPA 80 provides a lot of great criteria for us to
16 do that.

17 And doing it every third cycle is going to
18 be even worse than doing it even more routinely. In
19 a hospital we would be doing this every 18 years.
20 So all of that mold that has grown over that time,
21 we're going to open and expose all of our patients
22 to it.

23 Please support this motion.

24 **JACK POOLE:** Thank you.

25 Microphone number 4 to my left.

1 **JOE PICKENS:** Yes. Joe Pickens, Testing
2 Adjusting and Balancing Bureau speaking against the
3 motion.

4 So a couple things we heard here. First,
5 I would like to say NFPA should be concerned with
6 safety above all us including or not limited to the
7 economic cost of building owners when creating
8 standards. For example, putting sprinklers in
9 buildings for fire extinguishers.

10 This concern should carry over to the fire
11 and smoke dampers. The idea that a technician would
12 be required to go out to a hospital, for example,
13 once every 18 years, and that that would lead to
14 deaths of children, which, obviously, nobody wants
15 it, but I think that's a bit offensive to kind of
16 put that on the testing, adjusting and balancing
17 technicians to say that was on us.

18 So I would just like to make that comment.

19 Thank you.

20 **JACK POOLE:** Thank you.

21 Microphone number 1. Name, organization,
22 for or against.

23 **MARK ARMON:** Hello. My name is Mark Armon
24 from Belimo Aircontrols. I am for this.

25 Everyone in this room clearly sees the

1 value in testing life safety dampers. Our common
2 ground is that testing saves lives. And there's no
3 debate around that.

4 The simple logical step would be to say
5 that more testing should save more lives. And in my
6 opinion, there should never be a barrier to test a
7 life safety damper.

8 In typical barriers currently include cost
9 and time as well as the specialized skills to
10 proficiently complete the test.

11 Technology helps us in so many ways
12 nowadays that it seems completely obvious for life
13 safety testing to take advantage of common
14 sensibilities granted by advances in technology.

15 We know immediately the score of our
16 favorite sports teams or the change in stock prices.
17 Is it so difficult to imagine knowing if all the
18 life safety dampers in an entire hospital or campus
19 are functioning?

20 Does anyone here truly believe that the
21 manufacturers in this industry, in this very room,
22 are incapable of providing trusted solutions?

23 This body made remote testing of life
24 safety dampers an option because it was aware of the
25 challenges related to visual inspections. And it

1 made sense.

2 The world has not changed since 2018 when
3 the remote inspection method was enacted. All of
4 the challenges to ensure periodic testing even
5 occurs still exist today and we need to make sure it
6 remains easy, quick, and painless.

7 It is my opinion that there is zero
8 benefit to a building owner that are required visual
9 inspection occurs every third test. Requiring more
10 visual inspections for periodic testing would
11 reverse the progress towards smarter life safety
12 dampers.

13 And I believe will decrease the number of
14 actual tests that occur. This is an attempt by
15 those who perform the verbal inspections to keep the
16 life safety systems archaic.

17 We should be looking for more ways to
18 painlessly increase testing frequency so that we can
19 identify problems before there's an emergency.

20 We just talked about inaccessible dampers.
21 How are we going to visually inspect those every
22 third? We can inspect them every time if they're
23 inaccessible remotely.

24 Please support this. Thank you.

25 **JACK POOLE:** Thank you.

1 Microphone number 6. State your name,
2 organization, whether you're for or against, please.

3 **CHRISTOPHER RUKE:** Christopher Ruke, NEMI,
4 opposition.

5 Well, there are buildings that are
6 perfectly maintained and well gone through. We all
7 know that that's not, unfortunately, the case. We
8 also know that the reality is when you get to the
9 initial visual inspection that is required for the
10 remote testing, that is not necessarily done right
11 at the end of construction.

12 There is still activities that are
13 completed. We also know, every one of us that checks
14 out buildings, that within days after occupancy
15 you'll see things done.

16 As a technician, I would commonly find
17 where someone that was untrained ran wire through a
18 damper. I would see those dampers closed, but yet
19 the remote showed them as being open.

20 I would see dampers that were closed or
21 open yet the panel would show me a difference.

22 The problem here is that there is no
23 quality to this. There's nothing saying that you
24 need to have a very good specific type of damper
25 remote sensor with certain qualifications.

1 We all know there's a history in the smoke
2 control dampers of having problems of showing closed
3 or open when they're not.

4 These are mechanical devices. Everyone in
5 this room knows whether it's a building or your
6 house with a washing machine, mechanical devices
7 eventually fail. There are problems with them even
8 if the manufacturer assures you that there will
9 never be a fail.

10 Yep. The language up here would say that
11 you never need to physically test it again. Yet I
12 have yet to have a mechanical company that produces
13 these provide any data at all of the quality of
14 these products, that you are they are UL listed,
15 that they will never fail for potentially tens of
16 years. None of this has been provided.

17 So what's being asked here was a
18 compromise that you would simply do a visual
19 inspection every three cycles.

20 So what does that mean? Once every 12
21 years for most all buildings. Once every 18 years
22 for hospitals. This is a very reasonable compromise
23 for the patrons of the buildings and the first
24 responders that depend on these systems to work.

25 Thank you.

1 **JACK POOLE:** Thank you.

2 Microphone number 5.

3 **JOHN WILLIAMS:** John Williams, Washington
4 State Department of Health speaking in support of
5 this motion.

6 Inside of health care facilities, our
7 jurisdiction is hospitals. We look at those
8 closely, and we believe they are some of the most
9 closely watched and well-regulated facilities across
10 the country.

11 As a result, they are some of the most
12 fire safe. And that is in part to work by lots of
13 folks in this room. And we have an incredible
14 infection control problem inside of facilities,
15 inside of hospitals.

16 And that's because we aggregate some of
17 the most fragile parts of our population inside of
18 these health care facilities. And you all know
19 that, but it's not just because of their lack of
20 ability to self-preserve.

21 It's because of their body's own lack of
22 ability, often, to protect against those micro-
23 organisms that you heard from Mr. Beebe a few
24 minutes ago that are ubiquitous in the environment.
25 They are everywhere.

1 But for an immunocompromised patient, they
2 can be deadly. So when you look at all of those
3 spaces where these micro-organisms live, any
4 disturbance to that above ceiling space, that
5 enclosed space can generate these dust particles
6 that contain these micro-organisms. And they're
7 spread throughout the facility.

8 Other codes and standards require a lot of
9 technology, a lot of procedures to prevent this from
10 happening. And we believe that while these codes
11 protect it's not a zero sum solution.

12 We can do both. We can protect folks in
13 these facilities from fire safety hazards and
14 infection control hazards. We can do that both, but
15 we need to be creative.

16 We need to leverage technology as it
17 becomes available to provide both safety from both
18 risks.

19 Dampers themselves are a technology and
20 we've relied on them. This technology to monitor
21 the dampers, you heard from Mr. Koffel, has been
22 around for a while. And there are no proven mistakes
23 in that technology.

24 So a vote in support of this allows us to
25 take care of patients both from a fire safety

1 perspective and an infection control perspective.

2 Thank you.

3 **JACK POOLE:** Thank you.

4 Microphone number 4. Name, organization,
5 for or against.

6 **DEONA BRILL:** Deona Brill, Western States
7 Council Sheet Metal Workers. They stand in
8 opposition of this amendment.

9 While infectious control is important --

10 **JACK POOLE:** Did he say for or against?

11 **DEONA BRILL:** -- it should not supersede
12 fire safety as a primary consideration.

13 Proper ikra (phonetic) controls are
14 address access concerns without compromising
15 essential fire safety measures.

16 A balanced approach prioritizing both is
17 critical. Regular visual inspections every 12 to 18
18 years is the furthest we should go ensuring this
19 life-saving systems function properly.

20 Relying solely on remote sensors leaves
21 room for undetected malfunctions.

22 In conclusion, the safety of the building
23 and occupants and our first responders must be the
24 paramount concern.

25 The potential risk of failure dampers are

1 too great to ignore.

2 So I urge you to fail this amendment.

3 Thank you.

4 **JACK POOLE:** Microphone number 1.

5 **BILL KOFFEL:** Bill Koffel, Koffel

6 Associates representing AMCA.

7 And I want to respond to some of the

8 testimony you just heard about the dampers.

9 **JACK POOLE:** Speaking then for, correct?

10 **BILL KOFFEL:** I'm sorry. I'm speaking in

11 favor of the motion.

12 I want to respond to some of the comments

13 you just heard about this technology failing. When

14 I said there was no documented failure, and I will

15 repeat, there were no documented failures of this

16 technology submitted to the committee.

17 And the chair said, well, the burden was

18 on the damper industry to tell us it was equivalent.

19 That was done two cycles ago when this was put into

20 the standard.

21 The burden today is for somebody to say

22 the technology fails. So the examples you heard are

23 not this technology.

24 Contrary to what you heard, this is a

25 listed device. What was being referred to in the

1 past is where we would put sensors on smoke control
2 systems to try to determine during the incident is
3 the damper open or closed.

4 That was a modification of a damper that
5 was being made in the field. That is not this
6 technology. That is not a listed component.

7 The other thing that I think the
8 opposition totally fails to take into consideration,
9 if damper inspections and tests are inconvenient,
10 maybe even in the case of health care presenting
11 challenges to the facility from an infection control
12 standpoint, is a building owner more likely or less
13 likely to have this done if we can do it remotely?

14 We've allowed remote testing of
15 sensitivity, of smoke detectors for decades. We
16 allow remote testing of alarm notification
17 appliances. We allow remote testing of water flow
18 switches on sprinkler systems.

19 And I could go on and on. This is one
20 device in the building. It is visually verified
21 that it functions properly during the acceptance
22 test, and they want to take that advantage away
23 simply because they're going to assume somebody's
24 going to make a change in the building that's going
25 to, in the future, affect the operation of that

1 damper.

2 So they're assuming we're going to create
3 noncompliant condition.

4 **JACK POOLE:** Microphone number 6.

5 **JEREMY ZEEDYK:** Thank you.

6 Jeremy Zeedyk, National Energy Management
7 Institute. I speak against the motion.

8 What we've just heard was something that I
9 was going to get to in that manufacturers have
10 admitted to us that there are situations where these
11 dampers do have false indications of open and
12 closed, particularly the closed.

13 Field tests that we have performed and
14 others have seen in the field technicians show that
15 these do indicate and will indicate closed when
16 there's still about 25 -- up to 25 percent open.

17 Now we heard in a seminar just this week
18 that even if this does happen, it's just a tiny
19 little crack. 25 percent is not tiny, but a crack is
20 a crack. And that's allowing some fire, some smoke,
21 something, some toxicity to pass through.

22 It is not in the spirit of the code which
23 says fully closed. Large items like screw drivers,
24 cans BX wires, these things do occur.

25 I know you've said that we're assuming

1 that's happening. I can show you pictures and all
2 kinds of things from things that we've actually
3 verified we've seen in the field. Pipes being run
4 through walls. All sorts of things.

5 These things do happen after buildings are
6 done. There's been a lot of discussion about health
7 care buildings. They are maintained very well, by
8 and large.

9 It's the other buildings that we're that
10 are the large concern that we spend the most of our
11 time in. These buildings are at great risk of having
12 these false positives with this ability for fire and
13 smoke to pass through.

14 Imagine if you never physically checked a
15 mechanical item that you used. What if you never
16 ever checked the physical operation of your car,
17 just assumed that it would work fine until it
18 didn't.

19 That's the problem. It's when it doesn't
20 the visual verification is the important part of
21 this. And how does would be do maintenance if one
22 never actually goes up into the ceiling to do the
23 maintenance, which is required by the manufacturer?

24 I do want to just briefly highlight a
25 couple of things in consideration of fire doors in

1 the annexes of NFPA 80.

2 5.2 and K 6 both say: Doors, shutters and
3 windows are of no value unless they are properly
4 maintained and closed or able to close at the time
5 of fire.

6 And in A.3.3.8, it says: It is recognized
7 that closed fire doors protect openings against the
8 spread of fire and smoke.

9 Automatic closing doors normally are open.
10 And while they are reliable, there is always the
11 possibility that they will not close when required
12 due to blockage, maintenance problems, or other
13 unforeseen difficulties.

14 Once every just about two decades,
15 visually inspecting these dampers to verify that
16 there has not been some obstruction inserted into
17 that that was not intended is not too much to ask
18 for the safety and the reliability of these items.

19 And I urge to vote against this.

20 Thank you.

21 **JACK POOLE:** Thank you.

22 Microphone number 3.

23 **JIM PETERKIN:** Thank you.

24 Jim Peterkin with TLC Engineering
25 Solutions representing the health care section

1 speaking in favor of the motion.

2 I don't want to belabor anything. We've
3 already covered a lot.

4 I just want to add two things real quick.

5 One is the code still does require testing
6 upon installation and one year after installation.

7 So those things that happen right after
8 installation, those are caught in that first year
9 inspection.

10 After that is when the remote inspection
11 is permitted.

12 The other thing is just real quick is, you
13 know, I've got a bunch of owners now that are
14 looking to install these end limit switches that
15 have to be proven full open full closed to be able
16 to use remote inspection.

17 They're installing these things because
18 they know they can use them moving forward. If they
19 didn't know they had to go back and start looking at
20 them visually again, what's the point? Why would
21 they even bother.

22 And they're not just installing them on
23 fire smoke dampers. They're installing motorized
24 fire dampers so that they can take advantage of this
25 option.

1 So I urge you to support the motion.

2 **JACK POOLE:** Thank you.

3 Microphone 2.

4 **MARCELO HIRSCHLER:** Marcelo Hirschler, GBH
5 International. I call the question.

6 **JACK POOLE:** Okay. We have a motion to
7 call the question. I see there was others at the
8 microphone.

9 Do we have a second?

10 **UNIDENTIFIED SPEAKER:** Second.

11 **JACK POOLE:** We have a few seconds.

12 In order to -- you can scroll down to the
13 bottom of your voting machine, touch yes to call the
14 question.

15 No to continue debate.

16 Please record your vote.

17 Voting will be closed in five seconds.

18 Voting is stopped.

19 Motion passes 301 in favor.

20 And 22 against.

21 So before we vote, I'll restate the
22 motion.

23 The motion on the floor is to reject
24 second revision number 33 and any related portions
25 of first revisions and first correlating revisions.

1 To vote, touch the vote button.

2 Touch yes if your vote is in favor of
3 what's on screen one, the green screen.

4 Or no, the red screen, screen two.

5 Record your vote.

6 **UNIDENTIFIED SPEAKER:** Point of
7 information. I'm hearing people ask the question do
8 they vote in 80-2 and 80-6.

9 The answer is they should just be voting
10 in 80-2, I believe. 80-6 is not open.

11 **JACK POOLE:** Correct. 80-2 is what you're
12 to be voting on. It's a group motion under 80-2.

13 Voting is going to close in five seconds.

14 Voting is closed. 177 in favor. 175
15 against.

16 Motion passes.

17 Is there any further discussions on NFPA
18 80?

19 Bill, you have something on 80?

20 **BILL KOFFEL:** 105.

21 **JACK POOLE:** That concludes the
22 consideration on certified amending motions for NFPA
23 80.

24 We will now move on to the next standard
25 which is NFPA 105, standard on smoke door assemblies

1 and other opening protection devices.

2 Keith, would you like to present the chair
3 report?

4 **KEITH PARDOE:** Yes.

5 Ladies and gentlemen, the report of the
6 technical committee on fire doors and windows of the
7 NFPA 105 standard for smoke door assemblies and other
8 opening protectives is presented as found in the
9 first draft report and the second draft report for
10 the annual 2024 cycle.

11 The technical committee has published a
12 first draft report and a second draft report
13 consisting of the revisions of two NFPA 105.

14 The revisions were submitted by letter
15 ballot of the responsible committee. The report and
16 the ballot results can be found at the next edition
17 tab of the document information page for NFPA 105.

18 With that reported, I move for standards
19 council's issuance of the committee's report on NFPA
20 105, standard for smoke door assemblies and other
21 opening protectives.

22 **JACK POOLE:** Thank you.

23 Now let's proceed with the discussion.

24 Microphone number 1.

25 **BILL KOFFEL:** Bill Koffel. Koffel

1 Associates representing AMCA. I move CAM 105-2,
2 which is to reject second revision number 9
3 including any related first revisions and first
4 correlating revisions.

5 **JACK POOLE:** So there's a motion on the
6 floor to reject second revision number 8. You said
7 9 I thought. Including any related portions of
8 first revision and second correlating revision.

9 I have reject second revision number 8.

10 **BILL KOFFEL:** That might be a typo. I'm
11 looking at the original report. It said 9.

12 **JACK POOLE:** Okay. My apologies. Typo.
13 Correct.

14 Do we have a second?

15 **UNIDENTIFIED SPEAKER:** Second.

16 **JACK POOLE:** Okay. We have a motion and a
17 second.

18 Mr. Koffel, please proceed.

19 **BILL KOFFEL:** Bill Koffel, Koffel
20 Associates, representing AMCA, and I'm not going to
21 take a lot of time.

22 This is the same issue only now we're
23 talking about combination fire and smoke dampers
24 because they have to comply with ADN 105, and we're
25 talking about smoke dampers.

1 The only other thing that I didn't have a
2 chance to say in the previous discussion is this
3 issue has been before the membership in the past,
4 and the membership has, in the previous cycle,
5 supported the remote inspection testing technology.

6 I encourage you to do the same as we did
7 in the last cycle as well as what you just did in
8 the previous item.

9 Thank you.

10 **JACK POOLE:** Keith, would you like to
11 offer the position of the technical committee?

12 **KEITH PARDOE:** Yes.

13 At the first draft meeting of the
14 technical committee, the technical committee drafted
15 a first revision to require visual inspection of
16 dampers at least once for every third cycle of the
17 required periodic inspection.

18 This requirement requires dampers
19 utilizing the remote inspection method to have a
20 visual inspection every 12 or 18 years in buildings
21 containing a hospital.

22 This requirement does not impact periodic
23 inspections for dampers which do not utilize the
24 remote inspection method.

25 This requirement was added due to concerns

1 by the technical committee that dampers can be
2 rendered nonfunctional due to changes in the
3 building.

4 The first revision passed ballot by a vote
5 of 36 affirmative and four negative. There were
6 five public comments received seeking to delete the
7 requirement as shown in the first draft report,
8 which were rejected by the technical committee
9 because no data was provided to support that the
10 remote inspection is equivalent to visual inspection
11 over the lifespan of a damper.

12 At the second draft meeting, the technical
13 committee drafted a second revision relocating this
14 requirement under the heading of remote inspection
15 method as the requirement is only applicable to
16 installations which use the remote inspection
17 method.

18 The second revision passed ballot by a
19 vote of 37 affirmative and four negative.

20 Please note that this topic was just
21 addressed in CAM 80-2 for NFPA 80 and 80-6.

22 Since CAM 80-2 and 80-6 passed, it is
23 recommended to accept this CAM for consistency
24 between NFPA 80 and 105.

25 **JACK POOLE:** Thank you, Keith.

1 With that, we're going to open debate on
2 the floor for the motion.

3 Once again, please state your name, your
4 affiliation and whether you're speaking for or
5 against the motion.

6 I'm going to go to microphone number 5.

7 **JIM PETERKIN:** Thank you.

8 Jim Peterkin, TLC Engineering Solutions
9 representing the health care section in support of
10 the motion.

11 I am not going to beat this dead horse.
12 We've already called the question.

13 Again, for consistency, it needs to be the
14 same in 80 and 105. Thank you.

15 **JACK POOLE:** Thank you.

16 Microphone number 4 to my left.

17 **JOE PICKENS:** Joe Pickens, Testing,
18 Adjusting and Balancing Bureau in opposition to the
19 motion.

20 Not going to beat a dead horse. Just want
21 to say, technicians, by and large, we're not against
22 technology. We're not against remote inspections.

23 What we're saying is once every three
24 years. We would like to get in there visual
25 inspection.

1 These measures overwhelming passed through
2 the committee first and second draft. So just
3 pointing that out.

4 Thank you.

5 **JACK POOLE:** Thank you.

6 Microphone number 3.

7 **DAVE DAGENAIS:** Thank you, Mr. Chair.

8 Dave Dagenais, Wentworth-Douglass
9 Hospital, Mass General Brigham, speaking in favor of
10 the motion.

11 Again, not going to dive into the same
12 discussion we had, but I do want the body to think
13 about this concept.

14 It is about -- not about testing. It is
15 about the technology.

16 You've heard multiple times health care
17 has challenges getting into ceilings. The mere fact
18 that we're able to use this technology and invest
19 into this technology and health care organizations
20 are more inclined to do that if they don't have this
21 visual inspection requirement.

22 I would advocate they could test the
23 dampers more frequently than what they are. So
24 theoretically, and probably logically, by investing
25 in this technology could increase the amount of time

1 that the dampers are tested electronically because
2 they don't take the possibility of impacting a
3 patient.

4 So this is a good thing. This is where
5 technology can actually get in a position where
6 we're testing these dampers more frequently.

7 I encourage you to support this.

8 **JACK POOLE:** Thank you.

9 Microphone number 4.

10 **DEONA BRILL:** Deona Brill, Western States
11 Council again.

12 Not beating a dead horse, but there are
13 processes to help us out as construction workers to
14 prevent infectious control, all of that as well,
15 too.

16 But I am opposed.

17 **JACK POOLE:** Thank you.

18 Microphone number 1.

19 **MARK ARMON:** Hello, Mark Armon, Belimo
20 Aircontrols. I am in support of this.

21 I just wanted to mention that the code --
22 the standard already, and still allows for visual
23 inspection, it just provided remote inspection as an
24 option.

25 This statement virtually wipes out any

1 benefits of remote inspection requiring visual
2 inspection. So without this statement, visual
3 inspection still can be used and still can occur
4 with every inspection.

5 Please support.

6 **JACK POOLE:** Microphone number 6.

7 **CHRISTOPHER RUBE:** Christopher Rube, NEMI,
8 in opposition.

9 I just want to address one quick thing
10 that was said earlier about this.

11 The impression was given that the current
12 language states that you would do the visual
13 inspection initially upon installation of the
14 remote, and then one year later.

15 It does not say that anywhere that you do
16 it one year later. It just says that you do it
17 initially which then backs up the claims that we
18 already said that things get done right at the end
19 of construction.

20 But I do believe is consistency in the
21 code.

22 Thank you.

23 **JACK POOLE:** Microphone number 5, Mr.
24 Beebe.

25 **CHAD BEEBE:** Chad Beebe, American Hospital

1 Association in support of the motion.

2 We already pretty much gave the testimony.

3 We need to keep people out of the ceilings
4 as much as possible. That is our endeavor at the
5 American Hospital Association.

6 In all of our committee work, we're trying
7 to reduce the number of times people are going into
8 ceiling cavities. That would reduce the number of
9 times people are leaving soda cans in these devices
10 as well as putting cables through them.

11 We really need to look at this fire and
12 life safety is very important. We have a very good
13 record in hospitals. We need to save these lives.
14 Just too many people are dying every year because of
15 this.

16 Feel free to look up the data. The data
17 actually is there showing how many people die each
18 year of aspergillus.

19 There's only one way to get that, and
20 that's from the environment. Let's not introduce
21 more of it in the environment than we absolutely
22 have to.

23 So please support this one, as well.

24 **JACK POOLE:** Thank you.

25 Microphone number 4.

1 **L. J. DALLAIRE:** L. J. Dallaire, Amazon
2 Web Services. I call the question.

3 **UNIDENTIFIED SPEAKER:** Second.

4 **JACK POOLE:** We've got a motion to call
5 the question, and there was some other people at the
6 microphone. We will proceed with calling the
7 question.

8 Therefore, if you're in favor of calling
9 the question, hit the vote button and type yes.

10 If you're not in favor of calling the
11 question, type no.

12 Please vote.

13 Okay. Voting will close in five seconds.

14 Okay. Voting is closed.

15 We have 301 in favor.

16 And 17 against.

17 The motion passes to call the question.

18 So before we vote on the motion, let me
19 restate it.

20 The motion on the floor is to reject
21 second revision number 9 including any related
22 portions of the first revisions and first
23 correlating revisions.

24 Go ahead and touch vote.

25 Touch yes to vote in favor of the motion,

1 green screen.

2 No, against the motion, which is the red
3 screen text.

4 Voting will close in five seconds.

5 Voting is closed.

6 Motion passes. 205 in favor.

7 And 129 against.

8 Once again, the motion passes.

9 So thank you.

10 Is there any further discussion on 105?

11 That concludes the consideration for all
12 certified amending motions on 105.

13 And thank you.

14 And I'm going to turn the podium over to
15 the next group of certified amending motions to Jeff
16 Foisel who will be the next presiding officer.

17 So thank you for your time and cooperation
18 this morning. Have a good rest of the day.

19 **JEFF FOISEL:** Thank you, Jack.

20 So we will now move on to the next item on
21 our agenda which is NFPA 1970, standard on
22 protective ensembles for structural and proximity
23 firefighting, work apparel and open-circuit self-
24 containing breathing apparatus for emergency
25 services and personal alert safety systems.

1 We'll proceed by calling the certified
2 amending motions 1970 on the in order in which they
3 appear on the agenda.

4 For a full list of the certified amending
5 motions, please reference the motions committee 2024
6 annual report on page 7 and 8.

7 Rick Swan, will you please present the
8 chair report.

9 **RICK SWAN:** Thank you, Mr. Foisel.

10 Ladies and gentlemen, the report of the
11 correlating committee on fire and emergency services
12 protective clothing and equipment of NFPA 1970,
13 standard on protective ensembles for structural and
14 proximity firefighting work apparel open-circuit
15 self-contained breathing apparatus for emergency
16 services and personnel alert safety systems is
17 presented as found in the first draft report and the
18 second draft report for the custom ERRS group three
19 revision cycle.

20 The correlating committee and technical
21 committees have published a first draft report and
22 second draft report consisting of revisions of NFPA
23 1970.

24 The revisions were submitted by letter
25 ballot of the responsible committees. The reports

1 and ballot results can be found at the next edition
2 tab of the document information page for NFPA 1970
3 at www.NFPA.org/1970next.

4 With that reported, I move for the
5 standards council's issuance for the committee
6 report on NFPA 1970.

7 **MR. FOISEL:** Thank you, Rick.

8 Let's now proceed with discussion on
9 certified amending motion 1970-26.

10 **JOHN MORRIS:** Hi. My name's John Morris.
11 I'd like to make a motion to move CAM 1970-26 to
12 accept public comment 122.

13 **MR. FOISEL:** There's a motion on the floor
14 to accept public comment number 122.

15 Is there a second?

16 **UNIDENTIFIED SPEAKER:** Second.

17 **MR. FOISEL:** We do have a second.

18 Please proceed with the discussion on the
19 motion.

20 **JOHN MORRIS:** My name's John Morris. I'm
21 an engineer with 3M Scott Safety. We're a
22 manufacturer of SCBAs for the fire service.

23 We're asking --

24 **MR. FOISEL:** For or against.

25 **JOHN MORRIS:** For. My apologies.

1 We're asking the committee members in
2 attendance today to accept our CAM for public
3 comment 122 and to remove newly added first draft
4 information on cleaning, detailed cleaning and
5 disinfection instructions that were not prior in the
6 1981 document.

7 We feel that the 1970 is a performance
8 document for SCBAs and not a selection, care and
9 maintenance document.

10 If users need detailed instructions for
11 the selection, care and maintenance such as cleaning
12 and disinfecting, they should refer to NFPA 1852,
13 which is a SCAM document for SCBAs.

14 It's outlined in NFPA 1500 that users
15 should be using SCBA certified to the minimum
16 performance standard of 1981 and refers to 1852 for
17 the selection, care, and maintenance for things such
18 as cleaning and disinfection.

19 **MR. FOISEL:** Rick, would you like to offer
20 the committee's position?

21 **RICK SWAN:** Thank you, Mr. Chair.

22 Under its responsibilities for scopes
23 within this correlating committee's purview, the
24 correlating committee reviewed revisions for --
25 revisions to 16.2.7.1 and 16.2.7.2.

1 The correlating committee found no
2 conflicts or correlation issues in revisions that
3 resulted in the 2024 NFPA 1970 development process.

4 Al Yanagisawa, the chair of the technical
5 committee, is unable to attend so I will read the
6 technical committee's position on his behalf.

7 I speak in opposition to the motion based
8 upon the balloted results of the committee. Mr.
9 Morris's motion highlights the following key points.

10 One, cleaning and disinfecting procedures
11 should align with a respiratory protection program
12 as per OSHA standard 29 CFR 1910.134 or an
13 equivalent.

14 The variables in exposures, cleaning
15 procedures, and disinfectants make it impractical to
16 detail these in user instructions.

17 Three, qualified experts should assess
18 exposure to determine the appropriate cleaning,
19 disinfecting, and decontamination procedures.

20 Four, at the end -- the end-user is
21 responsible for having a policy that specifies how
22 to clean, disinfect, and inspect their equipment
23 with guidance from the manufacturer.

24 Five, the standards should offer enough
25 flexibility for user -- for end-users to determine

1 their cleaning and disinfecting protocols while
2 manufacturers provide guidance on appropriate
3 materials such as those listed in EPA list in for
4 disinfectants against SARS, CoV-2.

5 The technical committee has thoroughly
6 reviewed public comment number 122 and the
7 recommendations put forth by Mr. Morris.

8 After careful considerations, the
9 committee remains satisfied with the existing
10 wording in have NFPA 1970 standard, which includes
11 provisions for preliminary exposure reduction and
12 advanced cleaning.

13 These provisions were incorporated during
14 the first draft phase and have been deemed necessary
15 for maintaining the standard's integrity and
16 applicability.

17 The inclusion of preliminary exposure
18 reduction and advanced cleaning in the standard
19 ensures comprehensive coverage of an essential
20 safety procedures.

21 This approach aligns with the broader goal
22 of the NFPA and provides detailed effective safety
23 standards.

24 The committee believes this approach best
25 serves the interests of the end-user and

1 manufacturer alike ensuring both safety and
2 practicality in the implementation of cleaning and
3 disinfecting procedures for respiratory protection
4 equipment.

5 **MR. FOISEL:** Thank you.

6 With that, we will now open debate on the
7 motion.

8 Please remember to provide your name,
9 affiliation, and whether you're speaking for or
10 against the motion.

11 Microphone 4, please.

12 **DAVID BERNZWEIG:** My name is David
13 Bernzweig. I'm a member of the technical committee
14 representing the Columbus Firefighters Union, and
15 I'm opposing the motion. I stand in opposition to
16 this motion.

17 The technical committee for respiratory
18 protective equipment has worked diligently over the
19 past several years to ensure that cleaning and
20 disinfecting instructions are adequate to address
21 the hazards that the fire service face.

22 It makes absolutely no sense that the user
23 would find specific cleaning instructions for a
24 specific product in an OSHA regulation rather than
25 from the manufacturer of that specific product.

1 The proposed language in the motion before
2 you goes too far and would remove nearly all
3 requirements for specific cleaning procedures in the
4 product's user information.

5 Requirements for the manufacturer to
6 provide cleaning and care instructions as part of
7 the user information have been in the standard for
8 over two decades.

9 While I urge rejection of the motion
10 before you in order to preserve this critical user
11 information, I am more than willing to work with the
12 submitter to develop an amendment for the technical
13 committee to consider that would address their
14 specific concerns while not removing the essential
15 components of the user cleaning instructions.

16 Please reject this motion.

17 **MR. FOISEL:** Thank you.

18 Microphone 5, please.

19 **JOHN MORRIS:** Based on the --

20 **MR. FOISEL:** Name, affiliation, for or
21 against. Thank you.

22 **JOHN MORRIS:** John Morris, 3M Scott
23 Safety, and I'm changing my position based on the
24 previous statements by Dave Bernzweig regarding the
25 willingness to work with the committee via TIA to

1 address the concerns with the standard.

2 We urge members to not support the CAM.

3 **MR. FOISEL:** Okay. Is there --

4 Microphone 1, please.

5 **JOHN DENHARDT:** John Dendardt. Call the
6 question.

7 **UNIDENTIFIED SPEAKER:** Second.

8 **MR. FOISEL:** Okay. There is a motion on
9 the floor to call the question.

10 Do we have a second?

11 **UNIDENTIFIED SPEAKER:** Second.

12 **MR. FOISEL:** We have a second.

13 In order to vote on this motion, please
14 scroll down to the bottom of your device to vote.

15 If you wish to vote in support of the
16 motion, touch yes.

17 If you wish to vote against the motion,
18 touch no.

19 Please record your vote.

20 Voting will be closed in five seconds.

21 The voting is closed.

22 Thank you.

23 The results of the vote are -- is that
24 right? 249 yes. 16 no. The motion has passed.

25 We'll now move to a vote on 1970-26.

1 Before we vote, let me restate the motion.

2 The motion on the floor is to accept
3 public comment number 122.

4 To vote, touch the vote button.

5 If you wish to vote in support of the
6 motion and recommend the text on screen one, touch
7 yes.

8 If you wish to vote against the motion and
9 recommend the text on screen two, touch no.

10 Please record your vote.

11 Voting will close in five seconds.

12 The voting is closed.

13 The results of the vote are 29 in support
14 of the motion and recommend the text on screen one.

15 And 241 against the motion and recommend
16 the text on screen two.

17 The motion has failed.

18 Thank you.

19 Let's now proceed with the discussion on
20 certified amending motion 1970-20.

21 Microphone 4, please.

22 **JEREMY LAWSON:** Good morning. Jeremy
23 Lawson, Cal Fire.

24 I would like to -- I'm the author of this
25 motion and would like to withdraw it.

1 **MR. FOISEL:** Okay. Certified amending
2 motion 1970-20 appeared on our agenda. However,
3 seeing that the maker of the motion has approached
4 and in accordance with NFPA rules, the motion is not
5 going to be considered by the assembly as a
6 certified amending motion and will be removed from
7 the agenda.

8 We will now move on to the next motion.

9 Okay. Let's now proceed with the
10 discussion on certified amending motion 1970-34.

11 Microphone 5, please.

12 **JIM REIDY:** Council members, my name's Jim
13 Reidy, and I'm the submitter of this motion and
14 similar motion for 43 and 44.

15 After commitment from the correlating
16 committee chairman and the technical committee
17 chairman to establish a working group to establish a
18 detailed definition and criteria for these items, I
19 respectfully request to withdraw my motion this one
20 34, 43, and 44.

21 **MR. FOISEL:** You can't withdraw. You just
22 do not pursue. Is that okay?

23 **JIM REIDY:** Sure.

24 **MR. FOISEL:** And please clarify, you are
25 asking to not pursue all three, 1970-34, 1970-43,

1 and 1970-44?

2 **JIM REIDY:** Yes.

3 **MR. FOISEL:** Okay. So 1970-34, 1970-43,
4 and 1970-44 appeared on our agenda. However, they
5 have been chosen not to be pursued.

6 So in accordance with NFPA rules, the
7 motion may not be considered by the assembly and is
8 being removed from the agenda. We will now move on
9 to the next motion.

10 **JIM REIDY:** Thank you.

11 **MR. FOISEL:** Okay. The next motion, 1970-
12 38 appeared on our agenda. However, the authorized
13 maker of the motion or the designated representative
14 has notified NFPA that this motion will not be
15 pursued.

16 In accordance with the regulations and
17 convention rules, the motions committee acted on
18 this one, and the requested and approved the
19 withdrawal.

20 Therefore, in accordance with NFPA rules,
21 the motion may not be considered by the assembly and
22 is removed from the agenda.

23 We will now move on to the next motion.

24 The next motion 1970-35 appeared on the
25 agenda. However, the authorized maker of the

1 motion, the designated representative, has notified
2 NFPA that this motion will not be pursued.

3 In accordance with the regulations and
4 convention rules, the motions committee acted on
5 this request and approved the withdrawal.

6 Therefore, in accordance with the NFPA
7 convention rules, this motion may not be considered
8 by the assembly and is being removed from the
9 agenda.

10 We will now move on to the next motion.

11 The next motion 1970-39 appeared on our
12 agenda.

13 However, the authorized maker of the
14 motion, the designated representative, has notified
15 NFPA that this motion will not be pursued.

16 In accordance with the regulations and
17 convention rules, the motions committee acted on the
18 request and approved the withdrawal.

19 Therefore, in accordance with the NFPA
20 convention rules, the motion may not be considered
21 by the assembly and is being removed from the
22 agenda.

23 We will now move on to the next motion.

24 The next motion NFPA 1970-8 combined with
25 1970-46 appeared on the agenda.

1 However, the authorized maker of the
2 motion, the designated representative, has notified
3 NFPA that these motion will not be pursued.

4 In accordance with the regulations and
5 convention rules, the motions committee acted on the
6 request and approved the withdrawal.

7 Therefore, in accordance with the NFPA
8 convention rules, this motion may not be considered
9 by the assembly and is being removed from the
10 agenda.

11 We will now move on to the next motion.

12 The next motion NFPA 1970-45, 1970-47
13 appeared on our agenda.

14 However, the authorized maker of the
15 motion and the designated representative has
16 notified NFPA that this motion will not be pursued.

17 In accordance with the regulations and
18 convention rules, the motion committee acted on the
19 request and approved the withdrawal.

20 Therefore, in accordance with the NFPA
21 convention rules, this motion may not be considered
22 by the assembly and is being removed from the
23 agenda.

24 We will now move on to the next motion.

25 My apologies for that.

1 All right. Give me one moment here.

2 There we go.

3 All right. Let's now proceed with
4 discussion on the final certified amending motion
5 for NFPA 1970, 1970-27.

6 Is there someone at a microphone? The
7 glare up here is -- it's pretty non safely,
8 actually.

9 **JOHN MORRIS:** John Morris with 3M Scott
10 Safety.

11 I move to not pursue this motion.

12 **MR. FOISEL:** Okay. The next motion 1970-
13 27 appeared on our agenda.

14 However, the authorized maker of the
15 motion has notified NFPA that this will not be
16 pursued.

17 Therefore, in accordance with the NFPA
18 rules, this motion will not be considered by the
19 assembly and is being removed from the agenda.

20 With that, lunch? Lunchtime?

21 Is there any further discussion on NFPA
22 1970?

23 This concludes consideration of all the
24 certified amending motions. Thank you.

25 Before I turn the podium over for the next

1 group of certified amending motions for
2 consideration, I'd like to express my thanks. It's
3 been my pleasure to be your presiding officer today.

4 And before I let Mike up here, he'll start
5 off after lunch. So Jack had the opportunity to
6 give you a break. I'm going to give you a half hour
7 for lunch. 15 'til 1:00 we'll readjourn or
8 reconvene. We're not going to readjourn. We're
9 going to reconvene at 15 'til 1:00 when Mike
10 Crawley, NFPA standards council member, will
11 continue as presiding officer.

12 **(WHEREUPON, a recess was taken.)**

13 **MIKE CRAWLEY:** Good afternoon. Can you
14 all start coming in, find your seats, and we will
15 proceed in a few minutes.

16 All right. Good afternoon. Welcome back
17 from lunch. I want to thank Jeff for taking us
18 through so quickly before lunch that we got lunch.

19 Next item on the agenda is NFPA 72, the
20 national fire alarm signaling code.

21 We will proceed by calling the certified
22 amending motions of NFPA 72 in order in which they
23 were published in the agenda.

24 And you can see that agenda, reference
25 that on our motions committee report 2024 on pages 4

1 and 5.

2 And we're going to start with the chair's
3 report.

4 Merton Bunker, will you please present
5 your chair report.

6 **MERTON BUNKER:** Thank you, Mr. Crawley.

7 Ladies and gentlemen, the report of the
8 correlating committee on signaling systems for the
9 protection of life and property of the national fire
10 alarm and signaling code is presented as found in
11 the first draft report and the second draft report
12 for the annual 2024 revision cycle.

13 The correlating committee have published a
14 first draft report and a second draft report
15 consisting of revisions to the national fire alarm
16 and signaling code.

17 The revisions were submitted by letter
18 ballot of the responsible committees. The reports
19 and ballots results can be found at the next edition
20 tab of the document information page for national
21 fire alarm and signaling.

22 With that reported, I move for standards
23 council's issuance of the committees report on the
24 national fire alarm and signaling code.

25 **MIKE CRAWLEY:** Thank you, Merton.

1 Let's now proceed with discussion on
2 certified amending motion 72-6.

3 Microphone 5, Mr. Cholin.

4 **JOHN CHOLIN:** Mr. Chair, my name is John
5 Cholin from J. M. Cholin Consultants, and I'm
6 speaking in support of certified amending motion 72-
7 6.

8 **MIKE CRAWLEY:** Thank you. Sorry, you need
9 to make a motion, please.

10 **JOHN CHOLIN:** I move that we accept
11 certified amending motion number 72-6.

12 **MIKE CRAWLEY:** Thank you.

13 **UNIDENTIFIED SPEAKER:** Second.

14 **MIKE CRAWLEY:** We have a second.

15 Please proceed.

16 **JOHN CHOLIN:** The section of the standard
17 that was amended in the second revision phase added
18 the terminology of ceiling heights up to 40 feet in
19 height.

20 That amendment was not considered in the
21 initial revision and so consequently it's my view
22 that this is largely new material.

23 And my objective is primarily to maintain
24 the integrity of our standards writing process and
25 to maintain the credibility of the document we

1 produce.

2 The amendment for the high ceiling heights
3 was predicated upon a fire protection research
4 foundation test report.

5 That test report does not support this
6 ceiling height revision. It supports a revision
7 based -- that reduces the spacing based upon a
8 couple of relations that they provide in the text of
9 their document.

10 Curiously -- well, not curiously, but
11 quite frankly, understandably, those spacing
12 reductions are largely consistent with the spacing
13 reductions you get when you run the calculations in
14 annex B, the engineering guide for fire detectors
15 spacing.

16 So consequently we have a document if we
17 do not accept CAM 72-6, you have a document that has
18 a prescriptive spacing that is inconsistent with the
19 spacings you derive from annex B and is also
20 inconsistent with the spacing derived from the
21 research that was used to support the change.

22 And so consequently I think that we need a
23 document that is internally consistent and unless we
24 adopt CAM 72-6, it won't be.

25 And remember that when we go to

1 applications that are above the ceiling height
2 contemplated by the UL listing, we are now in an
3 area where our objectives might not be to wake
4 sleeping occupants in a residential occupancy.

5 Our objectives are oftentimes a
6 performance of a specific fire detection function
7 that is not necessarily achieved with the spacing
8 that is permitted now in the document.

9 And this change takes the professional
10 engineer out of the evaluation of the facility and
11 the hazard.

12 So I urge the membership to adopt CAM 72-
13 6.

14 **MIKE CRAWLEY:** Thank you, Mr. Cholin.
15 Merton, would you like to present the
16 committee position?

17 **MERTON BUNKER:** Thank you.

18 On its responsibilities for scopes within
19 this correlating committee's purview, the
20 correlating committee reviewed revisions to 1774231.

21 The correlating committee found no
22 conflicts or correlation issues in the revisions
23 that resulted in the annual 2024 national fire alarm
24 and signaling code development process.

25 I would like to now defer to microphone 4

1 to the chair of the technical committee who's
2 responsible for section 174231, Mr. L. J. Dallaire.

3 **L. J. DALLAIRE:** Thank you, Mr. Chair.

4 I'm L. J. Dallaire, and I have the
5 distinct privilege of serving as the chair of the
6 technical committee on initiating devices for fire
7 alarm and signaling systems.

8 I'm speaking against the motion based on
9 the balloted results of the committee.

10 This CAM proposals to reject second
11 revision 50-25. The submitter seeks to return this
12 section to the first draft text by way of removing
13 detectors on ceilings up to 40 feet in height from
14 the standard.

15 This is included in the second draft by
16 the technical committee.

17 At the first draft of the meeting, the
18 technical committee did consider this issue and
19 resolved to public input that proposed to limit the
20 prescriptive spacing of smoke detectors on ceilings
21 up to 30 feet depending the release of the FPRF
22 report, smoke detector spacing on high ceilings.

23 The technical committee reviewed the FPRF
24 report prior to the second draft meeting. The FPRF
25 report detailed that an increase in ceiling height

1 would allow smoke filling and reduce exposure to
2 ceiling structural systems due to high volume
3 temperature which is advantageous because this would
4 increase the available time to respond and evacuate
5 occupants.

6 The report also indicated that smoke
7 detection design, codes and standards should
8 incorporate a quantifiable threshold to establish
9 when a performance based analysis is needed for
10 smoke detector spacing determination.

11 The study recommends a ceiling height of
12 40 feet. No such prescriptive requirement exists in
13 the current edition of the code.

14 At the second draft meeting the technical
15 committee revised this section to limit the use of
16 prescriptive spacing on ceilings up to 40 feet.
17 Smoke detector spacing on 10-foot ceilings is based
18 on an obscuration threshold giving individual time
19 to evacuate.

20 When the ceiling height is increased, the
21 time for smoke layer to descend is increased, giving
22 occupants at least equivalent time to escape to a
23 10-foot ceiling.

24 The limitation on normal spacing or high
25 ceilings mirrors European standards which limit

1 normal spacing of smoke detectors to ceiling up to
2 12 meters, about 39.4 feet.

3 It is a quantifiable threshold to
4 establish the maximum height for prescriptive smoke
5 detector spacing.

6 It also requires that performance criteria
7 be used for ceilings above 40 feet.

8 Thank you, Mr. Chair.

9 **MIKE CRAWLEY:** Thank you.

10 With that, we'll open the floor to debate
11 on the motion.

12 Microphone 2. Please state your name,
13 affiliation, and whether you're speaking in support
14 or against the motion.

15 **SHANE CLARY:** Thank you, Mr. Chair.

16 Shane M. Clary, Bay Alarm Company,
17 Concord, California, speaking on behalf of the
18 Automatic Fire Alarm Association, Columbus, Ohio,
19 speaking against the motion.

20 And AFAA supports the action of the
21 technical committee.

22 Thank you.

23 **MIKE CRAWLEY:** Thank you.

24 So microphone 4.

25 **BRIAN HOLLAND:** Thank you.

1 Brian Holland. I represent the National
2 Electrical Manufacturers Association, and we are
3 speaking in opposition to CAM 72-6.

4 We ask the membership to up hold the
5 committee's decision that approved second revision
6 50-25 which you have heard here today based on the
7 data provided in the fire protection research
8 foundation report and is consistent with the
9 European standard for detector spacing on high
10 ceilings.

11 We would agree with the committee that the
12 criteria improves the code, does not result in
13 conflicts with the annex material or product safety
14 certification standards and is backed up with
15 considerable data and substantiation.

16 We urge the committee -- we urge the
17 membership to reject this CAM by voting no so this
18 critical ceiling height limitation is included in
19 the next edition of the code.

20 Thank you for your time and consideration
21 of NEMA's position on this matter.

22 **MIKE CRAWLEY:** Okay.

23 Any further discussion of motion 72-6,
24 reject second revision number 50-25?

25 Seeing none --

1 Merton would you like -- sorry. Can't see
2 you. Microphone 4.

3 **MARK HOPKINS:** I know I'm short, Mike, but
4 that's really --

5 **MIKE CRAWLEY:** I haven't been this tall in
6 a long time so I couldn't see through the glare. I
7 apologize.

8 **MARK HOPKINS:** Mark Hopkins, Summit Fire
9 Consulting. I'm in opposition of the motion.

10 I have the utmost respect for Mr. Cholin,
11 but having participated in the fire protection
12 research foundation technical panel for this
13 particular study and having been part of the
14 technical committee, I was a member of the IDS
15 committee, SIG/IDS, and was involved in this
16 discussion.

17 There was a lot of debate, a lot of
18 discussion about the threshold. And the task group
19 that reviewed this in depth considered that the
20 modeling and the research that was done supported
21 the 40-foot threshold.

22 And there was some consideration for
23 expanding beyond that, and the task group and the
24 committee considered that we just weren't ready yet.

25 So that is an area that will be further

1 studied leading into the next cycle, but as it
2 relates to this particular instance, this is
3 supported by the research data and was done in a
4 sound manner.

5 Thank you.

6 **MIKE CRAWLEY:** Thank you.

7 All right. Is there any further
8 discussion on motion 72-6 to reject second revision
9 number 50-25?

10 Now I can say seeing none, Merton, would
11 you like an opportunity for final comments?

12 **MERTON BUNKER:** No, sir. I support the
13 committee.

14 Thank you.

15 **MIKE CRAWLEY:** Thank you.

16 Now we'll move on to the vote.

17 Before we vote, let me restate the motion.

18 The motion on the floor is to reject
19 second revision number 50-25.

20 To vote, touch the vote button.

21 If you wish to vote yes for the green
22 screen, press yes.

23 If you wish to vote against the motion,
24 recommended text on the red screen, vote no.

25 Please record your votes.

1 Five seconds.

2 Okay. The votes are in.

3 Okay. Vote fails.

4 Motion does not pass.

5 Call the numbers, 56 yes. 226 no.

6 All right. Thank you.

7 Moving along. Let's proceed with the

8 discussion on certified amending motion 72-2.

9 Microphone number 1.

10 **STERLING MCCONNELL:** Thank you, chairman
11 and presiding officer.

12 My name is Sterling McConnell, and I
13 represent Monaco Enterprises.

14 I move CAM 72-2, which would reject second
15 revision number 51-27.

16 **UNIDENTIFIED SPEAKER:** Second.

17 **MIKE CRAWLEY:** Thank you.

18 And we have a second, a couple of seconds,
19 again.

20 Merton, would you like to offer the
21 committee's position?

22 **MERTON BUNKER:** Thank you, sir.

23 Under its responsibilities for scopes
24 within this correlating committee's purview, the
25 correlating committee reviewed revisions to NFPA 72

1 section 26651. The correlating committee found no
2 conflicts or correlation issues in this revision
3 that resulted in the annual 2024 national fire alarm
4 and signaling code development process.

5 I'd like to now defer to microphone number
6 4 to the chair of the technical committee who was
7 responsible for section 26651, Mr. Dan O'Connor.

8 **DANIEL O'CONNOR:** Thank you, Mr. Chair.
9 I'm Dan O'Connor, and I currently serve as the chair
10 of the technical committee on supervising station
11 fire alarm and signaling systems.

12 I speak in opposition to the motion right
13 now based on the balloted results of the committee.

14 This CAM proposals to reject 26651. The
15 submitter seeks to reject deletion of the two-way
16 radio frequency multiplex system section which
17 occurred during the second draft by the technical
18 committee.

19 At the first draft meeting, the technical
20 committee created a committee input to solicit
21 public comments on the deletion of subsections 26-64
22 and 26-65 radio systems and the reorganization of
23 section 26.6 communication methods for supervising
24 station alarm systems.

25 The technical committee reviewed and

1 accepted the one public comment received proposing
2 the deletion of the section on two-way radio
3 frequency multiplex systems on the basis that two-
4 way radio technology was no longer used or listed
5 for fire alarm service.

6 The requirements in subsection 26.6.5.1
7 are specific to listed two-way radio communication
8 systems.

9 The task group, in fact, contacted a
10 nationally recognized testing laboratory to inquire
11 if two-way radio frequency multiplex systems were
12 listed for fire alarm service.

13 At the time the task group was not aware
14 of any listed two-way radio frequency multiplex
15 systems during the period of the first and second
16 draft technical committee deliberations.

17 And that might be my most important
18 statement. We are not aware at that time.

19 Thank you.

20 **MIKE CRAWLEY:** Thank you.

21 Back to microphone number 1.

22 **STERLING MCCONNELL:** Thank you, again.

23 I am Sterling McConnell representing
24 Monaco Enterprises in support of CAM 72-2.

25 The CAM is proposed in order to maintain

1 the two-way radio section for fire alarm
2 representing in Chapter 26.

3 The reason given by the committee during
4 the second revision to delete this section was there
5 was no known system listed for fire alarm service.

6 However, Monaco Enterprises has and
7 continues to manufacture a listed two-way radio fire
8 alarm reporting system meeting prescriptive
9 requirements in Chapter 26.

10 The equipment is being deployed, developed
11 and enhanced under the requirements of 26.6.5.1, and
12 those systems are relied upon to protect lives and
13 critical assets.

14 There's a proven track record of the need
15 for such equipment to meet these requirements.

16 Support of this motion would leave the
17 requirement unchanged and imposes no negative impact
18 on the code or other requirements.

19 If this CAM passes, I anticipate two
20 follow-up motions to return text to a section in
21 Chapter 26, for DAC transmission means and to annex
22 A for guidance on communication methods.

23 Thank you for your time and consideration
24 of the motion.

25 **MIKE CRAWLEY:** Thank you.

1 With that, we will open debate on the
2 motion.

3 Please provide your name, affiliation,
4 whether you're speaking in support or against the
5 motion.

6 Microphone number 1.

7 **SHANE CLARY:** Thank you, Mr. Chairman.

8 Shane M. Clary, Bay Alarm Company,
9 Concord, California, speaking on behalf of the
10 Automatic Fire Alarm Association, Columbus, Ohio.

11 And we are in support of the CAM that this
12 removal of discussion on two-way radio was in error,
13 and we would urge everyone in the hall to vote in
14 favor of the CAM to maintain the language within
15 NFPA 72 for two-way multiplex radio.

16 Thank you.

17 **MIKE CRAWLEY:** Thank you.

18 Microphone number 3.

19 **ART BLACK:** Thank you, Mr. Chair.

20 Art Black, Carmel Fire Protection.

21 I guess it's time for a mea culpa.

22 I was the task group chair that made the
23 error, and I support the motion. We need to have
24 the two-way radio back in. So I support the motion
25 by Monaco.

1 **MIKE CRAWLEY:** Thank you.

2 Okay. Is there any further discussion on
3 the motion 72-2 to reject second revision number
4 51.27?

5 Seeing none, Merton, would you like an
6 opportunity for any final comments?

7 **MERTON BUNKER:** No, sir. Thank you.

8 **MIKE CRAWLEY:** Okay. Now we move on to
9 the vote.

10 Before we vote, let me restate the motion.

11 The motion on the floor is to reject
12 second revision number 51.27.

13 To vote, touch the vote button.

14 If you wish to vote in support of the
15 motion and the recommended text in green, touch yes.

16 If you wish to vote against the motion,
17 the recommended text on the red screen, touch no.

18 Please record your votes now.

19 Okay. The voting will close in five
20 seconds.

21 Okay. The voting is closed.

22 We have 294 in favor. 12 against. The
23 motion passes.

24 Thank you.

25 **UNIDENTIFIED SPEAKER:** Mr. Chairman, I

1 believe there were going to be two follow-up motions
2 to this to correct a couple of minor issues.

3 **MIKE CRAWLEY:** Okay. I have to get out my
4 follow-up motion pages.

5 I have them there.

6 There's a follow-up motion on the floor.

7 Follow-up motion made on CAM 72-2 as presiding
8 officer I have determined whether -- he hasn't made
9 it yet.

10 I take it, Mr. Sterling, it is my first
11 follow-up motion, you know, I'm trying to do it as
12 non safely as possible, okay.

13 **STERLING MCCONNELL:** Thank you, again.

14 I'm Sterling McConnell on behalf of Monaco
15 Enterprises.

16 And ask as my first follow-up motion, I
17 move to reject second revision 51-38. This restores
18 the reference to two-way communication under
19 26.6.4.2.4.1 as related to CAM 72-2.

20 **UNIDENTIFIED SPEAKER:** Second. Second
21 number one.

22 **MIKE CRAWLEY:** Second number one.

23 I need a second second for a follow-up
24 motion.

25 **UNIDENTIFIED SPEAKER:** Second.

1 **MIKE CRAWLEY:** There's a second and a
2 third. Okay. We're good.

3 Now we have the second.

4 So the follow-up motion is, for everyone,
5 it is to reject second revision number 51-38, which
6 is available on the second draft report at
7 www.NFPA.org/72next.

8 Okay. We got the second.

9 Mr. Sterling.

10 **STERLING MCCONNELL:** Thank you, again.

11 I'm Sterling McConnell on behalf of Monaco
12 Enterprises. I am for my follow-up motion to reject
13 second revision 51-38. Restores the reference to
14 two-way communication under 26.6.4.2.41 as related
15 to CAM 72-2.

16 This is because correlating texts need to
17 be brought back in with a two-way radio requirements
18 for correlation and consistency.

19 **MIKE CRAWLEY:** Thank you.

20 Microphone 2.

21 **ART BLACK:** Thank you, Mr. Chair.

22 Art Black, Carmel Fire Protection.

23 I know I'm standing at the wrong mic, but
24 it's closest to me.

25 **MIKE CRAWLEY:** For or against? That's all

1 we need to know.

2 **ART BLACK:** I support the follow-up
3 motion. This is to get two-way radio back into the
4 section on DACs to allow a two-way radio to be
5 connected to a DAC so we're good.

6 **MIKE CRAWLEY:** Thank you.
7 Microphone number 1.

8 **SHANE CLARY:** Thank you, Mr. Presiding
9 Officer.

10 Shane M. Clary, Bay Alarm Company,
11 Concord, California, representing the Automatic Fire
12 Alarm Association, Columbus, Ohio.

13 And we support the follow-up motion, and
14 we urge everyone in the hall to vote in the
15 affirmative.

16 Thank you.

17 **MIKE CRAWLEY:** Thank you.

18 We're off script right now. I've gotta
19 find where I'm going.

20 Here we go.

21 Mr. Chair, on comments on the follow-up
22 motion?

23 **UNIDENTIFIED SPEAKER:** No, sir.

24 **MIKE CRAWLEY:** Thank you.

25 All right. Before we vote, we're down to

1 the vote, no further discussions?

2 The motion on the floor is a follow-up
3 motion for SR 15-38.

4 To vote, we're going to press the vote
5 button.

6 If you wish to vote in support of the
7 motion, please press one or yes.

8 If you wish to vote against the motion,
9 please press no.

10 Please record your votes now.

11 Follow-up motions require two-thirds to
12 pass.

13 Five seconds.

14 All right. Thank you very much. Close
15 the vote.

16 **UNIDENTIFIED SPEAKER:** I think we got two-
17 thirds.

18 **MIKE CRAWLEY:** Okay. 290 to 1. There we
19 go. Very good.

20 Okay. That was painful.

21 We're not done yet.

22 Microphone number 1.

23 **STERLING MCCONNELL:** Sorry again. I'm
24 Sterling McConnell on behalf of Monaco Enterprises.

25 And ask as my second follow-up motion, I

1 move to reject second revision 51-28.

2 Support of this motion restores references
3 to two-way communication in annex A, table A.26.6.1
4 as related to CAM 72-2.

5 **UNIDENTIFIED SPEAKER:** Second.

6 **MIKE CRAWLEY:** Thank you.

7 We have the first second.

8 **UNIDENTIFIED SPEAKER:** Second.

9 **MIKE CRAWLEY:** Second second. Very good.
10 Thank you.

11 Please proceed, Mr. Sterling.

12 **STERLING MCCONNELL:** I promise this is my
13 last time today.

14 Thank you, again.

15 I'm Sterling McConnell on behalf of Monaco
16 Enterprises.

17 And ask as my second motion on follow, I
18 move to reject second revision 51-28. This
19 references in annex A table A.26.6.1 as related to
20 CAM-72-2.

21 This is because the correlating text needs
22 to be brought back in with the two-way radio
23 requirements and consistency. Thank you.

24 **MIKE CRAWLEY:** Thank you.

25 Mr. Chair, would you like to offer your

1 committee's --

2 **UNIDENTIFIED SPEAKER:** No, sir.

3 **MIKE CRAWLEY:** Thank you.

4 All right. We have it in. Let's start
5 discussion.

6 Number 2.

7 **ART BLACK:** Mr. Chair, Art Black, Carmel
8 Fire Protection, chair of the task group that
9 diligently took it out of the table because of the
10 work of the task group, but I recommend that we put
11 it back into the table, and I urge everyone to vote
12 for this follow-up motion.

13 **MIKE CRAWLEY:** Very good.

14 **ART BLACK:** Thank you.

15 **MIKE CRAWLEY:** Number 1.

16 **SHANE CLARY:** Thank you, Mr. Chair.

17 Shane M. Clary, Bay Alarm Company,
18 Concord, California, representing the Automatic Fire
19 Alarm Association, AFAA, Columbus, Ohio.

20 And we rise in support of the follow-up
21 motion and urge everyone in the hall to vote in the
22 affirmative.

23 Thank you.

24 **MIKE CRAWLEY:** Thank you.

25 Any further discussion on the follow-up

1 motion?

2 Mr. Chair?

3 **UNIDENTIFIED SPEAKER:** No, sir.

4 **MIKE CRAWLEY:** Thank you.

5 Moving along. Again, this will take two-
6 thirds.

7 **UNIDENTIFIED SPEAKER:** Point of order, you
8 need to clear the follow-up motion on the
9 (inaudible).

10 **MIKE CRAWLEY:** Refresh before you vote,
11 please refresh before you vote since we're -- we are
12 not on the normal agenda now.

13 So, okay. Let me restate the motion.

14 The motion on the floor is a follow-up
15 motion to reject SR 51-28, second revision 51-28.

16 If you wish to vote in the affirmative to
17 support the motion, please press yes.

18 If you wish to vote against the motion,
19 please press no.

20 We'll give you five more seconds. Three,
21 two -- let's close the vote.

22 It was 285 in the affirmative.

23 And two voted against it.

24 The motion has passed by two-thirds.

25 Thank you.

1 All right. Is there any further
2 discussion on NFPA 72?

3 That concludes all the certified amending
4 motions and follow-up motions on 72.

5 We will now move on to our next standard.
6 Thank you, Merton.

7 **MERTON BUNKER:** Thank you.

8 **MIKE CRAWLEY:** We will now move on to NFPA
9 13, standard for the installation of sprinkler
10 systems.

11 Let's proceed with discussion on the
12 certified amending motion --

13 All right. Let's begin with the chair's
14 report for NFPA 13. Chair Bill Koffel.

15 Thank you.

16 **BILL KOFFEL:** Thank you, Mr. Crawley.

17 Ladies and gentlemen, the report of the
18 correlating committee of automatic sprinkler systems
19 of NFPA 13 standard for the installation of
20 sprinkler systems is presented as found in the first
21 draft report and the second draft report for the
22 annual 2024 cycle.

23 The correlating committee on automatic
24 sprinkler systems has published a first draft report
25 and a second draft report consisting of the

1 revisions to NFPA 13 standard for the installation
2 of sprinkler systems.

3 The revisions were submitted to letter
4 ballot of the responsible technical committees and
5 the correlating committee in accordance with the
6 regulations governing the development of NFPA
7 standards.

8 The reports and ballot results can be
9 found at the next edition tab of the document
10 information page for NFPA 13 standard for the
11 installation of sprinkler systems found at
12 www.NFPA.org/13next.

13 With that reported, I move for standards
14 council issuance of the committee's report of NFPA
15 13 standard for installation of sprinkler systems.

16 **MIKE CRAWLEY:** Thank you, Bill.

17 Let's now proceed with the discussion on
18 certified amending motion 13-3. We did have a
19 change in order so we've flipped 13-3 and 13-4.

20 We're going to present 13-3 first.

21 Microphone number 5.

22 **KENNETH SCHNEIDER:** Thank you, Mr. Chair.

23 My name is Ken Schneider. I'm
24 representing the United Association of Journey
25 Workers and Apprentices in the Piping Industry.

1 Our motion is to reject 10-15 and revert
2 back to the language approved by the technical
3 committee in the first draft.

4 Thank you.

5 **MIKE CRAWLEY:** I'm looking for a second.

6 **UNIDENTIFIED SPEAKER:** Second.

7 **MIKE CRAWLEY:** Second. All right. Thank
8 you.

9 Please proceed.

10 **KENNETH SCHNEIDER:** Thank you, Mr. Chair.

11 My name is Ken Schneider. I'm
12 representing United Association of Journey Workers
13 and Apprentices in the Piping Industry.

14 I'm speaking in favor of the motion.

15 During the second draft, qualified
16 personnel was removed from a couple of chapters of
17 NFPA 13.

18 The committee believed the qualified
19 personnel was removed from the document completely.

20 Per the committee's statement, the term is
21 no longer used in the standard and is being deleted
22 based on actions taken in section 1.2.2.

23 However, upon further review, qualified
24 person does exist in the second draft text Chapter
25 16.

1 Based on this new information, I urge the
2 membership to support this motion to reject SR 10-
3 15.

4 If 13-3 passes, I will not move 13-4
5 forward, thus withdraw CAM 13-4.

6 Thank you.

7 **MIKE CRAWLEY:** Thank you.

8 Bill, would you like to offer the
9 committee's position?

10 **BILL KOFFEL:** Thank you, Mr. Chair.

11 Under it's responsibilities for scopes
12 within this correlating committee's purview, the
13 correlating committee reviewed the revisions to
14 33181 of NFPA 13.

15 The correlating committee found no
16 conflicts or correlation issues in the revisions
17 that resulted in the annual 2024 cycle of NFPA 13,
18 standard for installation sprinkler systems
19 development process.

20 Therefore, I would like to defer the
21 microphone to the chair of the responsible technical
22 committee for paragraph 33181 and that would be Mr.
23 Raymond Grill.

24 **RAYMOND GRILL:** Thank you, Mr. Chair.

25 I'm Raymond Grill, and I have the distinct

1 privilege of serving as the chair of the technical
2 committee on sprinkler system installation criteria.

3 I speak in opposition to the motion based
4 upon the balloted results of the committee.

5 This CAM proposes to reject second
6 revision 10-15 on 3.3.181 which deleted the
7 definition for qualified personnel added during the
8 first draft.

9 This action is directly related to the
10 second draft revision for 1.2.2 which revised the
11 term qualified added during the first draft to
12 knowledgeable and trained in reference to personnel.

13 The committee voted to remove the
14 definition of qualified personnel as the term was
15 removed from section 1.2.2 during the second draft
16 process.

17 The committee's position is that revising
18 qualified to read knowledgeable and trained in
19 section 1.2.2 allows companies to train their
20 employees for the work to be performed and allows
21 the authority having jurisdiction to establish
22 criteria for those allowed to perform the work.

23 Thank you.

24 **MIKE CRAWLEY:** Any final comments, Bill?

25 **BILL KOFFEL:** No.

1 **MIKE CRAWLEY:** No? Okay.

2 With that, let me restate the motion. The
3 motion on the floor is reject second revision number
4 10-15 -- sorry. One page ahead.

5 With that, we open the floor to debate the
6 motion.

7 Please state your name, affiliation,
8 whether you're speaking for or against the motion.

9 All right. I'm short, but I still don't
10 see anybody.

11 **UNIDENTIFIED SPEAKER:** Six.

12 **MIKE CRAWLEY:** Are you standing over
13 there? Yeah.

14 Microphone number 6.

15 **JIM PETERKIN:** Thank, Mike.

16 Jim Peterkin with TLC Engineering
17 Solutions representing the health care section
18 speaking in opposition to the motion.

19 We obviously don't have an issue with
20 qualified personnel definition who are requiring
21 qualified personnel.

22 We just don't like the definition they're
23 using as opposed to using the definition from 25.

24 We think the definition that is used in
25 the majority of NFPA documents, which is a better

1 definition, should have been used. And we have an
2 issue with the way this is worded, and we would
3 prefer to have a different definition.

4 So I would vote that we support the
5 committee, go back, and next cycle let's clean this
6 up.

7 Thank you.

8 **MIKE CRAWLEY:** Thank you.

9 Microphone number 5.

10 **KENNETH SCHNEIDER:** Is that me?

11 **MIKE CRAWLEY:** Yes.

12 **KENNETH SCHNEIDER:** My apologies, Chair.

13 Thank you, Mr. Chair.

14 My name is Ken Schneider, I'm representing
15 the United Association of Journey Workers and
16 Apprentices in the Piping Industry.

17 I am speaking in favor of the motion.

18 I want to remind the membership that
19 committee voted to remove the definition based on
20 not appearing in the standard.

21 As previously stated, it does exist in
22 Chapter 16. Including this definition as approved
23 by the technical committee in the first draft will
24 correlate with the same definition in NFPA 14, 20,
25 and 25.

1 The previous submitter or the previous
2 speaker mentioned or, I'm sorry, the chair of the
3 committee mentioned that this goes back to 1.2.2.

4 As I stated earlier, if this CAM passes, I
5 will not move 13-4 forward. Thus, withdrawing 13-4.

6 I urge the membership to support this
7 motion.

8 Thank you.

9 **MIKE CRAWLEY:** Thank you.

10 Microphone number 1.

11 **BOB CAPUTO:** Thank you.

12 My name is Bob Caputo. I'm the president
13 of the American Fire Sprinkler Association. And I
14 speak in favor of the motion on the floor.

15 We support moving this forward especially
16 in light of not moving the subsequent CAM.

17 Thank you.

18 **MIKE CRAWLEY:** Thank you.

19 Microphone number 5.

20 **CECIL BILBO:** Thank you.

21 Cecil Bilbo with Fire Sprinkler Academy,
22 and I raise in support of the motion.

23 It's been a long journey trying to get the
24 documents to align what qualified means and having a
25 preferred definition.

1 I think this is a great step forward, and
2 I would urge everyone else to support.

3 Thank you.

4 **MIKE CRAWLEY:** Thank you.

5 Is there any further discussion on motion
6 13-3, to reject second revision 10-15?

7 Bill, would you like an opportunity to
8 make any final comments?

9 **BILL KOFFEL:** Thank you, Mr. Chair.

10 At this time, the correlating committee
11 has not identified any conflicts or correlation
12 issues if this motion passes.

13 Thank you.

14 **MIKE CRAWLEY:** Thank you.

15 Okay. Now we'll move to the vote.

16 Before we vote, let me restate the motion.

17 The motion on the floor is to reject
18 second revision number 10-15.

19 To vote, touch the vote button.

20 If you wish to vote in support of the
21 motion, the green screen, push yes.

22 If you wish to vote against the motion,
23 press the no button and the red screen.

24 Please record your votes.

25 All right. Five seconds.

1 All right. The voting is closed.

2 We have 258 in support. 46 against.

3 The motion passed.

4 Thank you.

5 Microphone number 5.

6 **KENNETH SCHNEIDER:** Thank you, Mr. Chair.

7 My name's Ken Schneider representing the

8 United Association of Journey Workers and

9 Apprentices of the Piping Industry.

10 I am the maker of the motion, and I am not
11 going to pursue this motion.

12 Thank you.

13 Thank you, membership.

14 **MIKE CRAWLEY:** Thank you.

15 Yes, this is motion 13-4 that has -- the
16 submitter has decided not to pursue the motion.

17 In accordance with our rules, we will not
18 be discussing CAM 13-4.

19 Let's proceed with the discussion on
20 certified amending motion 13-19.

21 Microphone number 5.

22 **JEFF HUGO:** Thank you.

23 Jeff Hugo with the National Fire Sprinkler

24 Association. I'm speaking on behalf of NFSA's

25 engineering and standards committee.

1 I move CAM 13-19 to reject second revision
2 number 11-22.

3 **MIKE CRAWLEY:** Okay. Thank you.

4 There's a motion on the floor to reject
5 second revision number 11-22.

6 Is there a second?

7 **UNIDENTIFIED SPEAKER:** Second.

8 **MIKE CRAWLEY:** We have a second.

9 Please proceed with the discussion of your
10 motion.

11 **JEFF HUGO:** Jeff Hugo with the National
12 Fire Sprinkler Association on behalf of NFSA's ENS
13 committee in support of this position.

14 This CAM proposals reinstating the
15 definition of automated testing and inspection in
16 NFPA 13.

17 The NFSA ENS committee disagrees with
18 deleting this definition arguing it is used in
19 section 29.2.7. Keep this definition in Chapter 3
20 ensures a consistent application of automated
21 testing and inspection in the latter portions of
22 NFPA 13.

23 Thank you.

24 **MIKE CRAWLEY:** Thank you.

25 Bill, would you like to offer the

1 committee's position?

2 **BILL KOFFEL:** Thank you, Mr. Chair.

3 And before I offer the position, I just
4 want to make sure that everybody in the room pays
5 attention to what's on the board.

6 There was an error in the original
7 printing of the motions committee report that would
8 have implied that even if this motion fails, the
9 definition would have been retained.

10 So if this motion passes, the definition
11 would be inserted as Mr. Hugo indicated.

12 If it fails, there will not be -- there
13 would not be a definition of automated inspection
14 and testing.

15 Under its responsibilities for scope
16 within this correlating committee's purview, the
17 correlating committee reviewed the revision to 3311
18 of NFPA 13.

19 The correlating committee found no
20 conflicts or correlation issues in revisions that
21 resulted in the annual 2024 cycle of NFPA 13
22 standard for the installation of sprinkler systems
23 development process.

24 I would now defer to microphone 4 to the
25 chair of the technical committee who is responsible

1 for this paragraph as it relates to the certified
2 amending motion 13-19, Mr. Grill.

3 **RAYMOND GRILL:** Thank you, Mr. Chair.

4 I'm Raymond Grill, and I have the distinct
5 privilege of serving as the chair of the technical
6 committee on sprinkler system installation criteria.

7 I speak in opposition to the motion based
8 on the balloted results of the committee.

9 The CAM proposes to reject second revision
10 11-22 which deleted the definition of automated
11 inspection and testing.

12 During discussion, it was noted that the
13 term automated inspection and testing is not used in
14 the body of NFPA 13.

15 As per section 5.3 of the NFPA manual
16 style Chapter 3, definitions shall contain only
17 definitions of terms used in the document.
18 Therefore, the definition was removed.

19 The ballot vote was 30 affirmative, and
20 six negatives.

21 Thank you, Mr. Chair.

22 **MIKE CRAWLEY:** Thank you, Ray.

23 With that, we'll open the debate on the
24 motion.

25 Please provide your name, affiliation,

1 whether you're for or against the motion.

2 On microphone number 5.

3 **ROLAND ASP:** Thank you.

4 My name is Roland Asp with the National
5 Fire Sprinkler Association speaking on behalf of the
6 NFSA's engineering and standards committee. And I'm
7 speaking in favor of the motion.

8 As was previous stated, the term automated
9 inspection and testing is actually used in the
10 standard in section 29.2.7. So it's really clear
11 that it's appropriate to keep the definition within
12 the standard.

13 And I do want to state, though, I know
14 that automated inspection and testing is a little
15 controversial with certain aspects of our industry.

16 However, getting rid of the definition
17 will not get rid of the concept of automated
18 inspection and testing. It's already in NFPA 13.
19 It's in Chapter 29.2.7.

20 And I urge the membership to vote in favor
21 of this motion, and let's put the definition back
22 into the standard.

23 Thank you.

24 **MIKE CRAWLEY:** Thank you.

25 All right. Is there any further

1 discussion on motion 13-19 to reject second revision
2 number 11-22?

3 Hearing none, Bill, would you like an
4 opportunity for any final comments?

5 **BILL KOFFEL:** Nothing further, sir.

6 **MIKE CRAWLEY:** Thank you.

7 We will now move on to the vote.

8 Before we vote, let me restate the motion.

9 The motion on the floor is reject second
10 revision number 11-22.

11 To vote, touch the vote button.

12 If you wish to vote in support, the text
13 on the green, touch yes.

14 If you wish to vote against the motion, it
15 will be the text in red above, touch no.

16 Please record your votes.

17 Okay. Five seconds.

18 We'll close the vote.

19 Okay. Voting's closed.

20 Results, 279 in support. 20 in opposition.

21 The motion passed.

22 Let's proceed with the discussion on
23 certified amending motion 13-21.

24 Microphone number 1.

25 **KEVIN KELLY:** Thank you. Kevin Kelly with

1 Victaulic.

2 As the maker of the motion, I will not be
3 pursuing this motion 13-21.

4 **MIKE CRAWLEY:** Okay. I've got to find
5 that second.

6 All right. Since the maker of the motion
7 is not pursuing the motion, in accordance with our
8 bylaws, we will be putting this forth.

9 The CAM will not be presented here at this
10 meeting.

11 Thank you very much.

12 Moving on. Our next CAM, let's proceed to
13 certified amending motion number 13-20.

14 Microphone number 1.

15 **KEVIN KELLY:** I'm Kevin Kelly with
16 Victaulic. And I'd like to make a motion that we
17 accept CAM 13-20.

18 **MIKE CRAWLEY:** Very good. Thank you.

19 **UNIDENTIFIED SPEAKER:** Second.

20 **MIKE CRAWLEY:** Got a second. And a third.
21 Please proceed, Mr. Kelly.

22 **KEVIN KELLY:** Thank you.

23 Kevin Kelly with Victaulic in support of
24 the motion.

25 So what this simply does is it takes a

1 requirement that was buried in a definition, and it
2 puts it in the chapter for seismic protection where
3 this requirement needs to be.

4 Basically, it's showing that this
5 requirement of one degree or half a degree of
6 angular movement is a requirement for seismic
7 protection.

8 So rather than have it in a definition,
9 we're putting it in the chapter.

10 You're going to hear in a little bit that
11 the committee did reject but hold this. So they
12 weren't against this idea. They just wanted to make
13 sure that there weren't any unintended consequences.

14 Two things have happened since that reject
15 but hold that will help you make your decision on
16 this.

17 The correlating committee actually took
18 the definition and changed it from the installation
19 committee to the hanging and bracing committee.

20 So the hanging and bracing committee next
21 cycle will have purview over this definition. And
22 that was the previous motion that I withdrew.

23 So by withdrawing that, that will allow
24 the hanging and bracing committee to take the
25 definition and take a whole cycle to see if there

1 are any unintended consequences.

2 But to meet the mandalo (phonetic) style
3 we've taken those requirements and put it in the
4 chapter.

5 So that was one thing that happened since
6 then.

7 The second thing that happened since this
8 second revision is that NFPA 200, which is a new
9 standard that will be coming out soon. It's on
10 hanging and bracing of fire suppression systems.

11 NFPA 200 already did this. They already
12 put this requirement in the sprinkler chapter.

13 So basically by accepting this, we can get
14 it in the 2025 edition rather than having to wait
15 until 2028.

16 I urge you to push the green button.

17 Thank you.

18 **MIKE CRAWLEY:** Thank you.

19 Bill, would you like to offer the
20 committee's position, please.

21 **BILL KOFFEL:** Thank you, Mr. Chair.

22 Under its responsibilities for scopes
23 within the correlating committee's purview, the
24 correlating committee reviewed revisions to Chapter
25 3 of NFPA 13.

1 At the time, the correlating committee
2 found no conflicts or correlation issues in the
3 revisions that resulted in the annual 2024 cycle of
4 NFPA 13 standard for the installation of sprinkler
5 systems development process.

6 And I say at the time because, as you just
7 heard, NFPA 200 was under development at the time of
8 our review.

9 I would now like to defer to microphone 4
10 to the chair of the technical committee who is
11 responsible for the hanging and bracing of water-
12 based fire protection systems as it relates to
13 certified amending motion 13-20.

14 Jeff.

15 **JEFF HAVENSTRAY:** Thank you, Mr. Chair.

16 I'm Jeff Havenstray (phonetic), and I have
17 the distinct privilege of serving as chair of the
18 technical committee on hanging and bracing of water-
19 based fire protection systems.

20 I speak in opposition to the motion based
21 upon the balloted results of the committee.

22 CAM 13-20 proposals to accept public
23 comment 214 which would have added the flexible
24 coupling angular movements requirements from the
25 definition of a flexible coupling in Chapter 3 to a

1 new section in Chapter 18, installation requirements
2 for seismic protection.

3 At the second draft meeting, the committee
4 voted to reject but hold the public comment noting
5 that the implication to moving the information found
6 in the definition was new material and consideration
7 needed to be given to ensuring flexible couplings
8 are addressed properly throughout the standard
9 beyond only Chapter 18.

10 As this was reject, but hold, this issue
11 will be addressed during the next revision cycle.

12 I would also like to note that the
13 technical committee working on developing a new
14 standard, NFPA 200, standard for hanging and bracing
15 of fire suppression systems, is also currently
16 reviewing this topic.

17 And then one other point of clarification
18 and comment is that the definition through first
19 draft of NFPA 200, so far, is slightly different
20 than the language that's being proposed here.

21 So it does refer to couplings or assembly,
22 which is not in line with what the definition is
23 here in the requirement here.

24 **MIKE CRAWLEY:** All right. Thank you.

25 Okay. With that, we'll open the floor to

1 debate on the motion.

2 Please provide your name, affiliation,
3 whether you're speaking for or against the motion.

4 Microphone -- you don't see anyone either?

5 Okie.

6 Is there any further discussion on motion
7 13-20 to accept public comment 214.

8 All right. Hearing none, Bill, any last
9 opportunities?

10 **BILL KOFFEL:** No, sir.

11 **MIKE CRAWLEY:** Okay. Thank you.

12 We'll move on to the vote.

13 So let me restate the motion.

14 The motion on the floor is to accept
15 public comment number 214.

16 To vote, push the vote button.

17 If you wish to vote in the affirmative,
18 press yes.

19 If you wish to vote against the form, vote
20 no.

21 Please record your votes now.

22 Since you're all so ready, we'll close it
23 in five seconds.

24 Okay. The voting is now closed.

25 Thank you.

1 We have 240 to the affirmative.

2 And 62 against.

3 The motion passed.

4 Next, okay. We ready? Let's now proceed
5 in discussion certified amending motion number 13-8.

6 Microphone number 1, please.

7 **KEVIN HALL:** Thank you, Mr. Presiding
8 Officer.

9 Kevin Hall with the American Fire
10 Sprinkler Association representing AFSA's technical
11 advisory council.

12 Move to reject second revision 10-79 and
13 any related first revisions and first correlating
14 revisions.

15 **MIKE CRAWLEY:** Okay. Thank you.

16 Do I have a second?

17 **UNIDENTIFIED SPEAKER:** Second.

18 **MIKE CRAWLEY:** All right. There's a
19 second.

20 Proceed, Mr. Hall.

21 **KEVIN HALL:** Thank you, Mr. Presiding
22 Officer.

23 Kevin Hall, American Fire Sprinkler
24 Association, speaking in favor of the motion.

25 The approved storage floor plan includes

1 information about the building that the party
2 developing the shop drawings would not typically
3 have at their disposal during that process.

4 This CAM looks to remove that section from
5 Chapter 28, which is for plans and calculations as
6 this is largely just a requirement of the fire code
7 which is enforceable to the owner.

8 Chapter 28 is for plans and calculations
9 of sprinkler systems, and this could improperly be
10 applied to the party developing those shop drawings,
11 which they might not have the complete information
12 at either the time of the development of those
13 drawings or it should be put on the owner after that
14 has been approved and determined what their storage
15 layout is ultimately going to be based on that
16 protection.

17 The specific items that are needed for the
18 approved storage floor plan are already identified
19 in Chapter 4 of NFPA 13 under the owner's
20 certificate. And those requirements need to be
21 handled by the owner or their designated
22 representative and not the contractor or anyone
23 providing those shop drawings.

24 This requirement shall remain in the fire
25 code and not be extracted into NFPA 13 in Chapter

1 28.

2 And I would urge everyone to support the
3 motion to keep this requirement in the fire code and
4 not in the installation standard.

5 Thank you.

6 **MIKE CRAWLEY:** Thank you, Mr. Hall.

7 Bill, would you like to offer the
8 committee's position?

9 **BILL KOFFEL:** Under its responsibilities
10 for scopes within this correlating committee
11 purview, the correlating committee reviewed the
12 revisions 228.2 of NFPA 13.

13 The correlating committee found no
14 conflicts or correlation issues in revisions that
15 resulted in the annual 2024 cycle of NFPA 13
16 standard for the installation of sprinkler systems
17 development process.

18 I would now like to defer the microphone 4
19 to the chair of the technical committee who is
20 responsible for Chapter 28 of NFPA 13 as it relates
21 to certified amending motion 13-8, Will Smith.

22 **WILL SMTIH:** Thank you, Mr. Chair.

23 I'm Will Smith, the other one. And I have
24 the privilege of serving as the chair of the
25 technical committee on system discharge criteria.

1 I speak in opposition to the motion based
2 upon the balloted results of the committee.

3 This CAM proposals to reject the second
4 revision 10-79 including any related portions of the
5 first revision and first correlating revisions which
6 would have deleted the approved storage plans
7 required from Chapter 28 added during the first
8 draft and further modified during the second draft.

9 The technical committee on sprinkler
10 system discharge criteria added the new section to
11 Chapter 28 during the first draft to provide a
12 storage floor plan similar to that required in the
13 fire codes.

14 Adding it to NFPA 13 will require a
15 storage plan for all new storage occupancies
16 regardless of the application of the fire code.

17 The position of the committee is that the
18 plan will provide inspectors easy access to approve
19 storage configuration and give owners a way to
20 monitor storage modifications throughout the life of
21 the building.

22 At the second draft meeting, the committee
23 chose to further modify the new section by
24 extracting the requirements for an approved storage
25 plan from NFPA 1 to maintain alignment between NFPA

1 13 and NFPA 1.

2 This passed ballot with a vote of 27
3 affirmatives, five negatives, an one abstention.

4 Thank you.

5 **MIKE CRAWLEY:** Thank you, Mr. Smith.

6 With that, we will open the floor to
7 debate on this motion.

8 Please provide your name, affiliation,
9 whether you're in this support or against the
10 motion.

11 Microphone number 1.

12 **BOB CAPUTO:** Thank you, Mr. Chair.

13 My name is Bob Caputo. I'm with the
14 American Fire Sprinkler Association. And I speak in
15 favor of the motion on the floor.

16 As a practical matter, the fire sprinkler
17 contractor or preparer of sprinkler system layout
18 drawings is often -- well, as a practical matter,
19 the storage, with a rack storage especially, might
20 not even be known at the time that the system for
21 the shell building or for the primary building under
22 consideration are not even known.

23 This is often a post occupancy, tenant-
24 related issues. And the fire sprinkler contractor
25 or whomever might be preparing these shop drawings

1 would not necessarily and most likely, as a
2 practical matter, not have that information in time
3 in the sequence of construction and occupancy.

4 So for that reason, we support the motion
5 on the floor.

6 Thank you.

7 **MIKE CRAWLEY:** Thank you.

8 Microphone number 5.

9 **JIM PETERKIN:** Jim Peterkin, TLC
10 Engineering Solutions speaking on behalf of myself
11 in favor of the motion.

12 I think the information that this contains
13 is really already addressed in the owner's
14 certificate. I don't think it is necessary -- it is
15 a fire code issue, not a design issue, which, like I
16 said, is already covered under the owner's
17 certificate for the design purposes.

18 So for that reason I would vote for you,
19 as Kevin would say, push the green button.

20 **MIKE CRAWLEY:** Thank you.

21 This is getting too easy. I don't see
22 anybody out here, either. I see nobody.

23 Coming to the microphone.

24 Microphone number 2.

25 **MATTHEW MERCHANT:** Matthew Merchant

1 (phonetic) speaking on behalf of myself in
2 opposition to the motion.

3 I'm a little confused on this because it's
4 in Chapter 28 which is on acceptance testing.

5 So if we're at the point of acceptance
6 testing already when we're requiring this
7 documentation, we are then at the point where it's
8 really a service documentation for those doing the
9 inspection, basically the acceptance testing on the
10 fire department or the engineer who has been
11 responsible for that to know what the system design
12 was for the storage in the building so that they can
13 make sure that the storage is appropriate for the
14 design of the building.

15 If they don't have the documentation for
16 what the storage was intended to be when the system
17 was designed, how are they supposed to know whether
18 the system is correct or not?

19 I've had recent experience with this on
20 multiple occasions where I go in. I say, look, this
21 sprinkler system doesn't look right, and your floor
22 plan doesn't match the original floor plan for the
23 storage configuration.

24 I don't have the original documentation
25 for what it was designed for. I don't know what I'm

1 approving it to.

2 This is important language, and I ask that
3 you oppose this motion.

4 **MIKE CRAWLEY:** Thank you.

5 Microphone number 1.

6 **STEVEN SCANDALIATO:** Thank you, Mr. Chair.

7 My name is Steven Scandalianto speaking on
8 behalf of myself and a practitioner who, literally,
9 is connecting dots while we're in this meeting.

10 This is a clear indication of overreach.
11 13 is a standard for installation based on design
12 criteria that is provided by an engineer of record
13 or someone who has the wherewithal and knows what is
14 going to be or proposed for the building up front.

15 **MIKE CRAWLEY:** Are you --

16 **STEVEN SCANDALIATO:** I'm speaking in favor
17 of the motion. I apologize.

18 **MIKE CRAWLEY:** Thank you.

19 **STEVEN SCANDALIATO:** We've had several
20 light papers over the last 25 years defining
21 engineering, layout versus technician versus a shop
22 drawing.

23 And to the last comment that was brought
24 in opposition, the current location for this is in
25 plans and calculation or in the shop drawings, plans

1 and calculations. It's not in the acceptance
2 testing.

3 And so the idea that we get all the way
4 through the contracting process, out for bid with a
5 big rectangular that says storage, and then expect
6 the contractor, the subcontractor, to come up or go
7 find all that information breeds a very serious
8 issue with regard to who's going to bid ordinary
9 hazard group one or two, and who's going to go find
10 out just how high that storage is going to be and
11 all the configuration that goes with it.

12 Speak in favor of the motion, please.

13 **MIKE CRAWLEY:** Thank you.

14 Microphone number 2.

15 **MARCELO HIRSCHLER:** Marcelo Hirschler, GBH
16 International, speaking for myself.

17 I'm sure I don't understand this, but the
18 way I read, this is an extract for NFPA 1. So, in
19 actual fact, they have to comply with this.

20 So why not put it in the standard where
21 you have to comply -- where you understand rather
22 than have to go back to NFPA 1?

23 So I oppose the motion. Thank you.

24 **MIKE CRAWLEY:** Thank you.

25 Microphone number 5.

1 **CECIL BILBO:** Thank you.

2 Cecil Bilbo, the Fire Sprinkler Academy,
3 and I rise in support of this motion.

4 While Chapter 28 and the discharge
5 criteria committee were correct to be concerned
6 about these things, this was put forward by someone
7 that wanted to have this as part of the process.

8 It's already part of the process. It's
9 already very enforceable, and, in fact, required
10 during submittal of the drawings.

11 You're also required to submit in that
12 list already in Chapter 28 is the owner's
13 certificate is required to be there.

14 This is just part of the owner's
15 certificate document and the information that you
16 get in advance of your shop drawings.

17 So it's already there. It's already
18 enforceable. It's in the appropriate place.

19 I support this motion.

20 Thank you, Kevin. Hit the green button.
21 Yeah.

22 **MIKE CRAWLEY:** Thank you.

23 Microphone number 1.

24 **MARK HOPKINS:** Thank you for recognizing
25 me this time, Mike. I appreciate that.

1 **MIKE CRAWLEY:** I can see you now.

2 **MARK HOPKINS:** Mark Hopkins, Summit Fire
3 Consulting in support of the motion.

4 So this is a case where I think it's clear
5 that the intent is for the engineer to be involved
6 in this aspect of a project.

7 And what we're talking about is whether or
8 not it needs to be applied to the shop drawings and
9 part of the sprinkler contractor's purview.

10 And I think clearly we want the decisions
11 as they relate to commodities, changes, and hazard,
12 and so forth to be part of the engineering
13 responsibility and part of the owner's
14 responsibility, which is typically delegated to an
15 engineer.

16 So I think it is important to recognize
17 that it is required by the fire code, and it is the
18 owner's responsibility to provide this information.

19 And that can be delegated to the sprinkler
20 contractor, but it shouldn't be assumed that it is
21 the sprinkler contractor's responsibility.

22 Thank you.

23 **MIKE CRAWLEY:** Thank you.

24 Microphone number 5.

25 **SEAN AVIS:** Sean Avis speaking in support

1 of the motion. I'm with Troy Life and Fire Safety
2 speaking for myself.

3 I'm one of the people in the trenches.
4 I'm also an engineer. We've done a lot of shell
5 buildings over the years.

6 We don't know what's going to be in a lot
7 of these buildings. We'll do a shell building for a
8 client. They'll come back, and they give us a
9 general overview, but we do not have rack loads. We
10 do not have -- you know, we'll have storage heights.
11 And we provide that information on the owner's
12 occupancy certificate.

13 So in a lot of cases, the contractor's not
14 even going to have this information or to the extent
15 that's being requested.

16 So, anyway, please hit the green button.

17 **MIKE CRAWLEY:** Thank you.

18 Is there any further discussion on motion
19 13-8, reject second revision number 10-79 and any
20 relating first revisions and first correlating
21 revisions?

22 Bill, would you like an opportunity for
23 any final comments?

24 **BILL KOFFEL:** Again, Mr. Chair, at this
25 time the correlating committee has not found any

1 conflicts or correlation issues whether this motion
2 passes or does not pass.

3 Nothing further.

4 **MIKE CRAWLEY:** Thank you.

5 We'll move on to the vote.

6 Before we vote, let me restate the motion.

7 The motion on the floor is reject second
8 revision number 10-79 including any related first
9 revisions, first correlating revisions.

10 To vote, touch the vote button.

11 If you wish to vote in support, press yes.

12 If you wish to vote against the motion,
13 press no.

14 Please record your votes.

15 Give you five seconds.

16 Okay. The voting is closed.

17 We have 156 in support of the motion.

18 158, sorry. 158.

19 And 133 against the motion.

20 The motion has passed.

21 Let's proceed with discussion of certified
22 amending motion 13-14. Oh, that was withdrawn.

23 The next motion appeared in the 2024
24 technical meeting agenda. However, the technical
25 committee and the submitter requested the motion be

1 withdrawn.

2 In accordance with the regulations and
3 rules of the convention, the motion committee acted
4 upon the request and approved withdrawal.

5 Following the approval of the CAM and all
6 supporting material for the submission of the
7 positions were removed from the 2024 tech session
8 site and a special notice of the withdrawal was
9 posted.

10 We will now proceed with the remaining
11 CAMs.

12 All right. Let's now proceed -- really?
13 Okay. There's a flight that I can catch now.

14 Let's now proceed with the discussion of
15 the certified amending motion 13-15.

16 Microphone number 5, please.

17 **JEFF HUGO:** Jeff Hugo with the National
18 Fire Sprinkler Association speaking on behalf of the
19 NFSA's engineering and standards committee.

20 And we move CAM 13-15 to reject second
21 correlating revision number 17.

22 **MIKE CRAWLEY:** Thank you.

23 There's a motion on the floor to reject
24 second correlating revision number 17.

25 Is there a second?

1 **UNIDENTIFIED SPEAKER:** Second.

2 **MIKE CRAWLEY:** Thank you.

3 We do have a second.

4 Let's proceed -- yes, let's proceed with
5 the discussion on the motion.

6 Mr. Hugo.

7 **JEFF HUGO:** Jeff Hugo with the National
8 Fire Sprinkler Association on behalf of the NFSA's
9 ENS committee in support.

10 This CAM proposes to reinstate section
11 A.10.3.2 (9) to its 2022 text. The ENS committee
12 believes this annex note needs to remain as it was
13 printed in the 2022 edition.

14 There are nine parentheticals for side
15 wall sprinklers in section 10.3.2. This annex note
16 only addresses the ninth parenthetical, which is the
17 application of side wall sprinklers for car
18 stackers.

19 Thank you.

20 **MIKE CRAWLEY:** Thank you.

21 Bill, would you like to offer the
22 correlating committee's position?

23 **BILL KOFFEL:** Thank you, Mr. Chair.

24 Since this motion deals with the second
25 correlating revision and as chair of the correlating

1 committee, this one's on me.

2 I do encourage the two responsible
3 technical committee chairs if they want to represent
4 their committees, they can certainly do that during
5 the public discussion on this motion.

6 Under its responsibilities for scopes
7 within the correlating committee's purview, the
8 correlating committee reviewed revisions to 10.3.2
9 (9) of NFPA 13 standard for the installation of
10 sprinkler systems, and we found correlation issues.

11 If you look at the text, there are
12 occupancy hazard classification criteria provided in
13 this annex note which is an annex note to Chapter 10
14 which is under installation criteria.

15 During the same revision cycle discharge
16 criteria took a different action on this issue. And
17 that's why the correlating committee intervened on
18 this issue.

19 The CAM proposes to reject second
20 correlating revision 17 which struck some of the
21 annex material in 10.3.2 (9) primarily relating to
22 the reference to car stacker hazard classification.

23 This information was stricken from the
24 annex to correlate with actions taken in Chapter 10
25 but also actions taken by our discharge criteria

1 committee.

2 As such, it's the correlating committee's
3 view that it's inappropriate for this annex note to
4 contain or provide hazard classification which could
5 be used to establish discharge criteria without
6 supporting technical data.

7 And that was the position we heard from
8 the discharge criteria committee.

9 During the second draft, the discharge
10 criteria committee discussed the fact that there was
11 no substantiation provided to confirm that cars
12 installed in car stackers or car less systems would
13 classify as an ordinary hazard group two where side
14 wall sprinklers are installed.

15 The committee also noted that no
16 provisions are provided in the body of the standard
17 which states the limits of the levels of car
18 stackers, the car lift systems, and how to properly
19 protect car stackers and car lift systems.

20 It also notes that fire testing, this is
21 discharge criteria, noted that fire testing is
22 needed to determine the appropriate hazard
23 classification for car stackers and car less systems
24 and how they should be protected.

25 The discharge criteria committee requested

1 additional fire test information to be presented to
2 the committee per their review.

3 Thank you.

4 **MIKE CRAWLEY:** Thank you, Bill.

5 With that, we're going to open the floor
6 to debate.

7 Please provide your name, affiliation,
8 whether you're speaking for or against the motion.

9 Microphone number 5, please.

10 **ROLAND ASP:** Thank you.

11 I'm Roland Asp with the National Fire
12 Sprinkler Association speaking on behalf of NFSA's
13 engineering and standards committee. And I speak in
14 support of the motion on the floor.

15 This annex note, I want to respectfully
16 disagree with the correlating committee chair. I do
17 not believe -- this annex note doesn't really --
18 does not give any occupancy classification.

19 What it simply says is when you do have
20 sprinklers, side wall sprinklers, which is allowed
21 by Chapter 10, under the car stackers, that you
22 should be following the occupancy classification of
23 the garage.

24 Now, all occupancy classifications are in
25 the annex. They're not in the body of the standard.

1 And if an engineer who typically is going to apply
2 the occupancy classification, it's up to them to
3 decide what the occupancy classification is.

4 Now, I think this is really important
5 guidance, and I disagree, though, that this annex
6 note is giving any kind of occupancy classification
7 or is stepping on the discharge committee's toes.

8 What it really is just simply doing is
9 clarifying that when we do have sprinklers under the
10 car stackers, it's no longer a shielded combustible,
11 which the annex also suggests that car stackers with
12 no sprinklers under them should be an EH 2.

13 And one of the primary reasons is EH 2 is
14 appropriate when you have shielded combustibles.

15 In this case, you have sprinklers under
16 the cars in the car stackers. It's no longer a
17 shielded combustible. So there has to be guidance.
18 There's been car stackers and parking garages out
19 there being built constantly.

20 And this is actually in a way even more
21 stringent than the body requirements because a lot
22 of people look at this as you gotta put sprinklers
23 under obstructions wider than four feet that are
24 fixed in place.

25 I have seen interpretations that a car

1 stacker is not fixed in place so you can use your
2 normal garage occupancy classification and not put
3 sprinklers under these cars.

4 So if we do -- I agree we should have
5 testing. But if we wait for the testing, it's going
6 to be at least until the 2028 edition before we have
7 guidance.

8 We need guidance now. This is
9 appropriate. This has been in since the 2022
10 edition. And it was never discussed at the first
11 draft or the second draft meeting. This only came
12 by when the correlating committee, which I'm a
13 member, looked at it.

14 So please vote in favor of this motion.

15 Thank you.

16 **MIKE CRAWLEY:** Thank you.

17 Microphone number 4.

18 **KEVIN HALL:** Thank you.

19 Kevin Hall with the American Fire
20 Sprinkler Association speaking on behalf of our
21 technical advisory council speaking against the
22 motion.

23 We speak against this motion because the
24 current out look on the protection schemes for
25 parking structures and car stackers is uncertain.

1 It's not known and not well substantiated enough to
2 provide any recommendation in NFPA 13.

3 There's an ongoing fire protection
4 research foundation project looking into the design
5 criteria to protect parking structures.

6 And additional work is being done with
7 NFPA 88 A to determine those protection schemes.

8 With that project still in its early
9 stages and with no technically substantiated
10 recommendations for an appropriate protection
11 scheme, we feel that this would put some undue
12 burden on anyone inappropriately applying this
13 recommendation.

14 The other concern with the language is
15 that while it does still permit the use of side wall
16 sprinklers based off the body of the language, it
17 leaves questions as to what the discharge criteria
18 would be for the sprinklers installed below each
19 level of the car stacker.

20 In the annex it limits car stackers to
21 only two levels. This would be an unlimited number
22 of car stackers. Cars stack vertically usually side
23 walls under each one. So that's one question.

24 The other question is what is the pressure
25 requirement? What's the flow requirement for all of

1 these additional sprinklers below there to maintain
2 that extra hazard group to a ceiling level that even
3 the discharge committee wasn't quite comfortable
4 putting in as a recommendation in the annex for an
5 example of an extra hazard group to occupancy.

6 The classification of the occupancy or the
7 hazard needs to stay within the realm of the
8 engineering judgment and the responsible design
9 professional, and it should not be included in the
10 annex's unsubstantiated claim under the scope of the
11 installation committee and not the discharge
12 committee.

13 Thank you.

14 **MIKE CRAWLEY:** Thank you.

15 Microphone number 5.

16 **PETER SCHWAB:** Thank you.

17 Peter Schwab, Wayne Automatic Fire
18 Sprinklers speaking in support of the motion.

19 Let's be honest. This is a turf war.

20 We have two committees that are arguing
21 with each other, and we're arguing about annex
22 language. And I know we're going on about this, and
23 I'm holding, I'm between you and the airport or the
24 bar, but this is annex language, people.

25 And it was in the standard for a cycle.

1 It is not enforceable. I've sat here in many of
2 these meetings and listened to people talk about
3 it's annex. It's not enforceable.

4 I think this is a good balance and a good
5 point to be at right now. As Mr. Hall pointed out,
6 the second report of the fire protection research
7 foundation was just published last week, and they
8 are recommending increased testing.

9 And in that report there was some language
10 or there was some examples of some testing and some
11 observations that were done in regard to two cars
12 and the ability of that above system to protect that
13 fire from going beyond the car below on to the car
14 above.

15 So, as I mentioned, this is annex. We
16 have another cycle. I think we should leave this in
17 here.

18 Let's go green on this one.

19 **MIKE CRAWLEY:** Thank you.

20 Microphone number 4.

21 **STEVEN SCANDALIATO:** Thank you, Mr. Chair.

22 Steven Scandaliato speaking on behalf of
23 myself. Speaking in opposition to the motion.

24 I will give general membership a quick
25 update. Albeit, it is in the first draft format, but

1 we just finished Chapter 9 of 88 A finally an
2 attempt to put some structure to stacks, multi
3 stacks, mechanical and robotic.

4 We have a full decision tree that's been
5 developed. And using the results of the
6 foundation's first report and now the second along
7 with information from Australia and several entities
8 around the world, we believe we have something in
9 place that will, as an occupancy standard, direct
10 people in the right direction for not only design
11 criteria but other passive or active system
12 requirements, of which is alluded to by the reason
13 why we did what we did in 13 originally to drive it
14 into a performance-based solution because there's
15 just way too many features of these units including
16 stacker which can imply one level or several levels.

17 And the problem with calling out a hazard
18 here, especially extra hazard, is we're left with no
19 obstruction rules. All of the obstruction rules go
20 to light and ordinary.

21 And now we're in another world of unknown
22 if we go to extra hazard.

23 Thank you.

24 Microphone number 6.

25 **JOHN DENHARDT:** John Denhardt, the

1 American Fire Sprinkler Association. And I'm
2 speaking against this motion.

3 Look, the association and the contractor's
4 side of me, I get paid to put sprinklers in. I'd
5 love to put sprinklers under every side wall under
6 every car stacker.

7 But the engineer in me tells me we don't
8 have the data yet. If an engineering firm, if a
9 design professional gives me a design, tells me what
10 so calculate, I'll install it all damn day.

11 But the reality is look at that language.
12 It's in an installation section. It's not in the
13 discharge. When you go to the plans and
14 calculations, how do you calc this? How many
15 levels? Can we go two, four, six, eight, 12? Am I
16 calcing one head, two heads on each level?

17 There are so many variables right now that
18 we just don't know. I asked the discharge
19 committee, which I am a member of, does anybody got
20 any data when we had the second draft meeting.

21 Most of us were not aware that this data
22 was in Chapter 10, which is an installation
23 standard.

24 I sit on the correlating committee. I
25 brought this to the correlating committee.

1 In my humble opinion, this is an overreach
2 by the installation, and I respectfully disagree
3 with the proponent that says there's no occupancy
4 classification.

5 It says right there, design it as a
6 parking garage. So I can go six high and call it an
7 ordinary hazard group two because I put a spiblehead
8 (phonetic) under each one?

9 And what did I calculate? One? There's
10 no guidance.

11 Let the design professionals tell us what
12 the heck they want, and we'll give it to them all
13 day.

14 Until 88 A and 13 and the research
15 foundation get good data and put something in the
16 book, let's get this language out.

17 Please push red.

18 Thank you.

19 **MIKE CRAWLEY:** Microphone number 5.

20 **CARL:** Hi. This is Carl again, trying to
21 speak on behalf of myself in support of the motion.

22 I just want to point out a few specific
23 things.

24 First of all, this language was brought
25 into the 2022 edition and was not brought up again

1 until the second draft of the 2025 edition. So it's
2 been in the standard for an entire edition.

3 When it was initially put in, the
4 installation committee voted 29 to 2 in favor. One
5 of the votes that was not in favor I do not believe
6 was actually meant to be not in favor because it was
7 the comments associated with it were regarding
8 another item.

9 So the discharge committee has had plenty
10 of time to have already looked at this prior to this
11 point in this last minute of this second draft cycle
12 of the next edition.

13 Also, with regard to what was being
14 specifically proposed, it was specifically looking
15 at two tiers of stackers.

16 As you can see here in the annex note,
17 it's specifically referencing A 4.3.4.2.9 which
18 specifically is referring to an EH 2 requirement or
19 EH 2 suggestion for two-tiered car stackers. That
20 is in the annex 2 Chapter 4 currently.

21 So it specifically was regarding those
22 type of applications and as a previous speaker
23 Roland was mentioning, it was specifically saying
24 that in this situation essentially we're no longer
25 having shielded fire, and it was for a very limited

1 application and suggesting that a normal parking
2 garage application would be appropriate.

3 It was not specifically saying it should
4 be OH 1 or OH 2 or EH 2 or whatever. It was just
5 saying that, you know, because of the fact that
6 there are sprinklers under this level, it is no
7 longer going to be a specifically shield fire.

8 So I'm speaking in support of this motion,
9 and, you know, once again, going back to Kevin's
10 thing, please hit the green button.

11 Thank you.

12 **MIKE CRAWLEY:** Okay. Is there any further
13 discussion on motion 13-15 reject second correlating
14 revision number 17?

15 Okay. Seeing none, Bill, any opportunity,
16 last opportunity for final comments.

17 **BILL KOFFEL:** Thank you, Mr. Chair.

18 The correlating committee did not weigh in
19 on the technical aspects of this. The correlating
20 committee weighed in on the fact that we had two
21 conflicting recommendations from our committees.

22 PC 66 was a public comment submitted to
23 the discharge criteria committee that was rejected
24 for the reasons that I previously stated. The lack
25 of any fire test information to support the concept

1 of treating these as ordinary hazard group two if
2 sprinklers are provided under each level of cars.

3 We also recognized or believed that the
4 occupancy hazard classification, which then results
5 in discharge criteria, is the responsibility of the
6 discharge criteria.

7 So our decision was not based upon any
8 technical information. In fact, we have one
9 committee saying there isn't any technical
10 substantiation at this point in time.

11 It was merely based upon is this the
12 responsibility of installation criteria or discharge
13 criteria.

14 Thank you.

15 **MIKE CRAWLEY:** Thank you. Now we'll move
16 on to the vote.

17 Before we vote, let me restate the motion.

18 The motion on the floor is reject second
19 correlating revision number 17.

20 To vote, push the vote button.

21 If you wish to vote in support of the
22 motion, please press yes.

23 If you wish to vote against the motion,
24 please press no.

25 Please record your votes now.

1 And we will give you five seconds to
2 close.

3 Three, two, one.

4 Okay. We'll close the voting.

5 Voting's closed.

6 Thank you.

7 We have 154 in support of the motion.

8 And 134 against the motion.

9 The motion has passed.

10 Is there any other further discussion on
11 NFPA 13?

12 Seeing none, I want to thank you all for
13 your time and participation today.

14 It was my pleasure to serve as the
15 presiding officer and to conclude the debates on the
16 motions of the 2024 tech sessions.

17 On behalf of the entire NFPA standards
18 council, NFPA, this officially concludes the 2024
19 NFPA technical meeting.

20 I want to thank you for your
21 participation, interest, and support.

22 I now declare the 2024 technical meeting
23 officially adjourned.

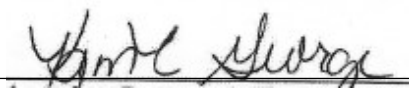
24 **(WHEREUPON, the meeting adjourned.)**

25

CERTIFICATE

I, Kim George do hereby certify that the proceeding named herein was professionally transcribed on the date set forth in the certificate herein; that I transcribed all testimony adduced and other oral proceedings had in the foregoing matter; and that the foregoing transcript pages constitute a full, true, and correct record of such testimony adduced and oral proceeding had and of the whole thereof.

IN WITNESS HEREOF, I have hereunto set my hand this 8th day of July, 2024.

A handwritten signature in cursive script, appearing to read "Kim George", is written over a horizontal line.

Kim George

1	233:2 266:13	10th 7:17	241:18
1 32:24 65:10	266:24	35:9	241:21
65:13	268:21	11 60:23	242:14
65:19 77:8	275:22	11,000 58:5	243:18
84:14	10.3.2 265:15	11-22 240:2	247:25 248:4
95:19 105:15	266:8 266:21	240:5 242:10	252:19
118:15 137:4	10:40	244:2 244:10	252:25
141:12	126:24	119 129:11	253:12
147:12	126:25	129:12 130:5	253:15
158:15	100 151:22	132:16	253:20
165:21 173:4	100,000 68:4	132:21	254:14 255:1
181:24	10-15 232:1	133:11	258:11 266:9
187:18 199:4	234:6	133:16	271:2 274:13
217:9 219:21	235:4	133:24	276:14
221:6	238:6 238:18	12 57:24	280:11
225:7 226:18	1033 49:23	60:24	130 108:8
226:22	55:14 55:24	65:17 86:8	1312 46:23
228:15	105 36:4	86:12	13-14 263:22
237:10	139:25 140:3	86:21 97:8	13-15
244:24	159:13	161:6 169:20	264:15
245:14 251:6	180:20	172:17	264:20
254:25 255:1	180:25 181:7	183:20 213:2	278:13
255:11 258:5	181:13	222:22	13-19
259:18	181:17	275:15	239:20 240:1
259:22	181:20	1200 111:20	242:2 244:1
260:23 278:4	182:24	122 193:12	13-20
1,000 111:21	184:24	193:14 194:3	245:13
1.1 134:1	185:14	196:6 200:3	245:17
1.2 67:17	191:10	129 191:7	248:13
1.2.2	191:12	13 36:4 41:11	248:22 250:7
232:22	105-2 182:1	230:9 230:14	1321 36:3
234:10	10-79	230:19 231:1	38:4 41:8
234:15	251:12 254:4	231:10	41:12
234:19 237:3	262:19 263:8	231:15	41:16 42:2
1.6.2 7:18	109 126:16	232:17	42:22 43:4
35:15	10-foot	233:14	46:10
1:00 206:7	212:17	233:17	46:20
206:9	212:23	240:16	47:16 48:7
10 24:16		240:22	48:15 49:11
111:2			

49:15	111:2 126:25	88:23	210:20
49:16	137:7 137:12	15-38 226:3	17th 70:13
52:13	157:23 206:7	154 280:7	18 161:6
52:24 55:3	206:9 233:3	156 263:17	164:19
55:25	150 36:3	158 263:18	165:13
57:13	59:16	263:18	169:21
59:12 59:14	59:25 60:8	16 57:23	172:17
13-21	60:12	65:21 199:24	183:20 249:1
244:23 245:3	61:16	232:25	249:9
1321-2	62:21 63:3	236:22	18,000 68:11
39:10	63:14	16.2.7.1	1852 194:12
39:20	63:16 70:5	194:25	194:16
48:23	72:16	16.2.7.2	186 158:8
54:20 57:4	77:17	194:25	19 37:11
133 263:19	77:21 78:4	16.3 116:20	159:11
13-3 231:18	84:22 86:8	161 94:8	19.1 116:8
231:19	86:12 90:4	166 158:10	116:10
231:20 233:4	93:19	17 190:16	1910.134
238:6	94:13	264:21	195:12
134 280:8	98:15 105:25	264:24	1929 130:8
13-4 231:19	106:14 107:5	266:20	193413 140:12
233:4	111:4 111:12	278:14	195 37:11
233:5	113:10	279:19	1960s 108:10
237:5	113:13	17020 46:17	1970 36:4
237:5 239:15	113:15 119:2	47:1	191:21 192:2
239:18	119:7 122:24	1730 41:3	192:12
136 129:22	123:4	41:11	192:23 193:2
129:24 130:1	150,000 67:13	41:15	193:6
130:14	1500 111:20	41:25	194:7
130:16	111:21 116:5	49:11 49:15	195:3 196:10
132:24	194:14	174231 211:2	202:11 205:5
13-8 251:5	150-10 60:17	175 96:18	205:12
253:21	150-11 60:17	97:5 97:16	205:22
262:19	150-14 60:18	99:20 180:14	1970-20
14 60:23	150-7 60:17	177 180:14	200:20 201:2
163:17	93:21	1774231	1970-26 193:9
236:24	150-8 60:17		193:11
142,000 76:8	150-9 60:17		
15 106:11	150-gallon		

199:25	31:9	36:3 94:15	249:19
1970-27 205:5	1996 31:19	96:7 96:15	2000 19:23
1970-34	1997 21:7	102:20	20:8 21:6
201:10	21:19	106:11	2001 18:10
201:25 202:3	21:21	109:11	19:22
1970-35	28:25 30:6	112:13	2002 17:13
202:24	31:17	112:18	19:21
1970-39	1998 27:5	112:23 116:2	30:18 31:2
203:11	27:7 29:17	118:12	31:6
1970-43	<hr/>	122:19	2003 18:7
201:25 202:3	2	126:20	18:8 18:20
1970-44 202:1	2 42:7	126:22	19:1 19:2
202:4	65:16	126:22	25:4 28:23
1970-45	72:12	236:24	2004 17:12
204:12	79:25	244:20	25:18
1970-46	87:24	20,000	30:17 59:24
203:25	88:14	163:5 164:11	2005 18:2
1970-47	89:12 92:3	20.3.4.3	19:1 19:20
204:12	107:14	154:7 154:17	23:25
1970-8 203:24	156:24 179:3	20.4 116:21	27:25 28:1
1981 194:6	213:12	20.6 107:11	28:8 28:9
194:16	224:20 228:6	20.8 116:22	2006 17:25
1985 30:12	256:24	200 96:9	19:19 29:3
1986 31:22	259:14	97:15	29:5 30:16
1987 20:14	269:12	99:16	2007 18:6
1989 31:9	269:13 277:4	100:1	18:22
1990 24:16	277:18	101:8	19:19
1991 20:17	277:19	102:2	24:13 28:6
21:5 27:10	277:20 278:4	104:4 109:12	28:7 31:17
1992 21:23	278:4	109:17 110:1	2008 20:13
1993 19:4	2,000	111:22 114:7	22:12 26:5
28:25 30:7	111:22	114:14 116:6	29:1 29:18
1994 29:6	114:11	116:19	2009 18:5
1995 21:9	114:12	116:22	18:6 18:10
24:16 27:8	116:19	116:23	20:12
	2,000,000	116:24 119:7	20:16
	68:12	123:6 123:11	20:18 25:2
	20 5:3 7:16	124:6	25:3 25:4
	7:23 16:13	247:8 247:11	25:7 50:20
	35:9 35:18	248:7 249:14	

<p>201 110:12 122:4</p> <p>2010 19:17 26:6 28:1 28:4 31:14</p> <p>2011 18:8 20:11 20:13 21:9 24:24</p> <p>2012 22:7 22:10 22:11 23:8 27:1 27:3 27:4 29:16 30:18 31:13</p> <p>2013 18:20 19:2 19:24 20:10 21:18 50:18 67:5</p> <p>2014 27:9 31:8</p> <p>2015 17:15 17:25 18:3 18:6 18:7 18:8 23:1 25:19 26:17 26:23 29:15 29:16 30:22 31:15</p> <p>2016 18:25 19:4 22:13 23:1 24:11 24:14 25:5 27:24 30:22 31:13</p> <p>2017 16:11</p>	<p>19:16 26:4 30:8 31:25 76:7</p> <p>2018 19:1 25:8 27:12 27:23 43:16 57:9 167:2</p> <p>2019 22:9 25:3 25:7 27:22 28:22 31:19 62:13 159:11</p> <p>2020 18:21 18:21 19:12 19:16 19:20 26:21 27:21 28:20</p> <p>2021 16:9 19:7 19:9 19:10 19:11 23:22 25:17 26:20 29:5 31:24 79:10</p> <p>2022 19:6 22:14 22:24 23:6 23:6 23:7 23:11 23:12 23:13 23:15 23:16 23:19 23:21</p>	<p>27:21 76:7 96:16 139:22 265:11 265:13 270:9 276:25</p> <p>2023 6:7 22:23 26:4 26:19 27:23 32:18 38:19 76:15 85:11</p> <p>2023's 76:19</p> <p>2024 5:1 5:3 5:24 6:1 6:8 13:8 13:15 13:22 30:22 30:23 31:14 31:15 32:7 32:11 32:18 35:25 70:13 95:1 127:14 136:13 181:10 192:5 195:3 206:25 207:12 210:23 218:3 230:22 233:17 241:21 248:3 253:15 263:23 264:7 280:16 280:18 280:22</p> <p>2025 247:14</p>	<p>277:1</p> <p>2028 247:15 270:6</p> <p>205 191:6</p> <p>20-6 95:18 104:16 123:17</p> <p>21 97:8 157:19</p> <p>21,000 86:3</p> <p>212 94:8</p> <p>214 248:23 250:7 250:15</p> <p>216 135:7</p> <p>22 51:1 179:20</p> <p>223 59:7</p> <p>226 217:5</p> <p>228.2 253:12</p> <p>23 93:3</p> <p>237 126:16</p> <p>24 39:21 40:1 54:20 57:4 58:22</p> <p>240 251:1</p> <p>241 200:15</p> <p>249 199:24</p> <p>25 11:11 148:7 175:16 175:16 175:19 235:23 236:25 258:20</p> <p>25,000 67:13</p>
--	---	---	--

2500 114:11 116:21	243:19	136:1	152:5 164:25
2510 26:25	290 226:18	318-1	172:4 185:16
258 239:2	294 222:22	135:11	187:9 189:25
26 220:2	29th 35:25	135:17	197:11
220:9 220:21	<hr/>	318-2 127:6	200:21
26.6 218:23	3	128:6 134:12	206:25
26.6.4.2.4.1	3 6:7 19:21	319 93:3	210:25
223:19	65:10	32-year 89:19	213:24 215:2
26.6.4.2.41	69:24	33 107:6	218:6 241:24
224:14	80:25 110:21	158:20	248:9 252:19
26.6.5.1	122:12	158:23	253:18
219:6 220:11	131:15	179:24	270:17
26-64 218:21	131:20 155:2	3311 241:17	273:20
26-65 218:22	177:22 186:6	33181	277:20
26651 218:1	221:18	233:14	4.28 123:25
218:7 218:14	240:19	233:22	4.3.4.2.9
27 76:15	242:16	34 201:20	277:17
205:13 255:2	247:25	36 184:5	4.5.3 7:13
279 244:20	248:25	37 162:5	4.6 7:13
27th 35:25	3,000 15:17	184:19	76:17
28 252:5	15:18	38 161:16	4.7 7:9 7:13
252:8	3.3.181 234:6	202:12	4.7.6 99:14
253:1 253:20	30 57:22	39 99:14	99:19
254:7 254:11	57:23	142:4	99:25 117:11
257:4	155:8	39.4 213:2	40 59:8
260:4 260:12	155:8 211:21	3M 193:21	81:5
285 125:23	242:19	198:22 205:9	112:17 129:8
229:22	30,000 162:25	<hr/>	208:18
29 95:23 96:6	300 117:20	4	211:13
104:19	117:22 118:8	<hr/>	212:12
123:17 126:6	301 179:19	4 46:4 50:2	212:16 213:7
195:12	190:15	54:21	40-foot
200:13 277:4	308 157:18	65:10	215:21
29.2.7 240:19	31 56:7 155:8	76:19 87:9	42 56:6
243:10	318 36:4	104:11 113:1	43 141:12
	126:23	131:1 131:17	201:14
	127:17	131:22 133:4	201:20
	127:24 128:3	142:4 145:22	44 86:10
			201:14

201:20	500 37:9	188:6	76 135:9
46 239:2	50-25	208:7 210:13	<hr/>
<hr/>	211:11 214:6	235:14	<hr/> 8 <hr/>
5	214:24 216:9	274:24	8 41:6 130:24
<hr/>	216:19	6,000 114:13	131:2
5 48:19	51.27 222:4	60,000 86:6	182:6
53:2 65:10	222:12	163:1	182:9 192:6
74:7 89:14	51-27 217:15	600 67:23	8,000 42:14
100:15 103:3	51-28 227:1	62 251:2	8.1 67:11
108:5	227:18	66 97:9	80 36:4 108:9
115:3 124:11	229:15	278:22	124:4
128:7	229:15	669 72:15	136:3 136:10
132:7 133:19	51-38	80:5	136:16
144:7	223:17 224:5	<hr/>	136:20
150:8	224:13	<hr/> 7 <hr/>	136:24
153:4 162:11	54 129:24	7 60:23	137:25 138:1
170:2	56 135:1	76:8 93:20	138:11 140:3
185:6 188:23	217:5	131:18 192:6	159:12
198:18	58 129:1	7.9 67:12	164:15 177:1
201:11 207:1	135:1 135:2	70 85:19	180:18
208:3 231:21	59 135:2	72 36:4 148:9	180:19
236:9 237:19	<hr/>	206:19	180:23
239:5 239:21	6	206:22 208:6	184:21
243:2	6 66:19	210:12	184:24
256:8 259:25	83:2	217:25	185:14
261:24	101:21 109:7	221:15 230:2	800 51:2
264:16 268:9	117:3 119:25	230:4	80-2 158:14
272:15	120:24 121:8	72-2 217:8	158:19 180:8
276:19	123:18 125:4	217:14	180:10
5,000 86:7	128:11	219:24 222:3	180:11
114:10	128:14	223:7 223:19	180:12
116:22	131:21	224:15 227:4	184:21
5.2 177:2	134:13	72-6 208:2	184:22
5.3 242:15	134:23	208:11	80-3 137:3
50 74:16	142:11	209:17	137:7
98:10 112:19	148:21	209:24 214:3	80-6 158:14
129:20	153:21 168:1	214:23 216:8	180:8 180:10
130:14	175:4 177:2	75 113:7	184:21
132:25			184:22
50/50 49:3			

84 130:9	ability 102:8	99:13	152:12
88 271:7	150:13	99:14 123:17	155:16
274:1 276:14	151:21	126:5 159:16	156:10
<hr/>	170:20	184:23	accommodate
9	170:22	193:12	84:1 101:4
<hr/>	176:12	193:14 194:2	accomplishes
9 182:2 182:7	273:12	200:2 208:10	45:10
182:11	able 20:24	209:17	accordance
190:21	56:1 56:3	245:17	7:9 7:12
265:11 266:9	56:13	248:22 250:7	32:24
266:21 274:1	62:24	250:14	35:15 60:4
9.5.2.1	96:23	acceptable	135:23
117:11	98:23 106:24	112:14	137:12 201:4
90 69:8 82:20	110:3 142:18	acceptance	202:6 202:16
85:11 119:2	155:22	174:21 257:4	202:20 203:3
90,000 162:19	156:20 177:4	257:5	203:6 203:16
900-feet	178:15	257:9 259:1	203:19 204:4
67:23	186:18	accepted	204:7 204:17
91 96:16	abolish	75:25 160:12	204:20
92 96:16	79:3 79:21	219:1	205:17 231:5
921 49:24	abolishing	accepting	239:17 245:7
54:12	79:14	15:7 16:18	264:2
93 96:17	absence 29:25	160:18	according
94 96:17	absolutely	247:13	64:6 76:8
95 79:4 96:17	154:12	access 6:1	Accordingly
9521 118:10	189:21	75:1 90:18	77:2
<hr/>	197:22	139:4	account 71:18
A	abstention	143:8 146:19	152:22
<hr/>	255:3	147:23	accountabilit
A.10.3.2	Academy 50:19	172:14	y 47:15
265:11	124:14	254:18	47:24 51:11
A.26.6.1	237:21 260:2	accessibility	accreditation
227:3 227:19	accept	151:13	41:23
A.3.3.8 177:6	39:19	accessible	46:16
Aaron 121:9	39:25	138:19	46:21
121:9	54:20 57:4	138:20 139:5	51:21 51:23
abilities	58:21	141:16 146:3	accredited
48:2	60:22 77:5	150:15	51:14 51:25
	95:23 96:6	151:11	accuracy 52:3
		152:11	

accurate 8:25	7:15 35:7	131:16	197:20
achieve	44:8	131:22 178:4	198:13 199:1
150:22 151:4	232:22	added 62:14	addressed
151:17	266:24	65:19 111:17	109:20 147:1
achieved 97:6	266:25	111:17	184:21 249:8
210:7	activated	140:14	249:11
achievement	34:10	161:11	256:13
14:23 15:3	active	183:25 194:3	addresses
16:16	15:12	208:17 234:7	42:24 51:1
16:20	15:18	234:11	265:16
17:15	69:16 121:17	248:23 254:7	addressing
19:24 25:8	274:11	254:10	97:10
31:25	activism	adding	adds 118:23
acknowledge	62:19	65:11	119:8
29:24	activists	98:16 254:14	adequate
acquire	62:1	addition	68:18
162:20	activities	29:20 58:4	69:16 84:2
across 86:1	168:12	additional	197:20
86:18	actual	50:25	adhere 90:16
86:25	12:23	84:11	adherence
96:20 142:25	118:5 167:14	91:14	51:16
155:8 170:9	259:19	97:24	adjourned
act 70:18	actually 49:2	268:1	280:23
71:7 98:20	80:8	271:6 272:1	280:24
acted 7:5	109:21	additionally	adjournment
32:21 202:17	115:20	5:19 9:5	7:16 7:24
203:4 203:17	123:11 129:3	28:2 41:17	35:10 35:19
204:5 204:18	163:12	64:8	adjusted
264:3	163:13	additives	76:12
acting 70:13	163:17 176:2	26:18	adjusting
action 7:3	176:22 187:5	address 10:22	165:2 165:16
7:8 12:24	189:17 205:8	14:15	185:18
70:22	243:9 246:17	34:14 36:5	Administratio
91:17	269:20 277:6	44:11	n 20:6
96:22	adapt 48:2	50:18	administrator
98:24 120:18	add 65:13	91:12 98:6	s 56:1 56:24
213:20 234:9	67:2 78:22	108:18	admitted
266:16	79:12	132:11 134:5	
actions	91:19 115:11	144:14	
		172:14 188:9	

175:10	144:1	afternoon	124:12 125:5
ADN 182:24	153:9	206:13	125:20
adopt 86:13	160:9 174:25	206:16	126:10
209:24	affiliation	ag 63:17 86:8	126:17
210:12	10:17	86:22 86:23	128:22 132:6
adopted 86:17	10:21	against 10:18	133:5 133:20
adoption	39:12 42:8	39:12 42:8	142:10
52:23 62:15	46:2	42:17	142:12
advance 13:11	100:13	42:19 46:3	145:23
74:17 150:22	101:22 103:4	48:14	148:22
151:1 260:16	104:11	48:20 50:4	148:25 150:2
advanced 88:6	107:15	50:9 53:4	152:6 153:22
196:12	122:13 132:5	53:8 54:22	155:3 159:20
196:18	142:9 142:12	55:1 58:14	162:10 165:2
advances	145:22	59:2 66:13	165:22 168:2
166:14	148:21 152:6	66:15	170:22 172:5
advantage	162:9	66:15	172:10 175:7
166:13	185:4	66:19	177:7 177:19
174:22	197:9 198:20	69:21	179:20
178:24	213:13 221:3	69:25	180:15 185:5
advantageous	235:7 242:25	72:15 74:8	185:21
212:3	250:2	77:9 80:1	185:22
adversely	255:8 268:7	80:5 81:17	190:16 191:2
63:17 74:20	affirmative	83:3 84:15	191:7 193:24
advisory	65:22	87:12 88:4	196:4 197:10
251:11	65:22 97:8	89:15 94:2	198:21
270:21	142:4 161:16	95:20 100:14	199:17 200:8
advocate	162:5	101:22 103:4	200:15 211:8
15:15	184:5 184:19	104:12	213:14
61:15 186:22	225:15	107:16	213:19
AFAA 213:20	228:22	107:20	216:23 221:4
228:19	229:16	107:23 108:6	222:16
Affairs 70:14	229:22	110:22 112:3	222:22
affect	242:19	113:2 114:18	224:25 226:8
63:17	250:17 251:1	115:4	229:18
63:25	affirmatives	115:8	229:23 235:8
82:20 102:14	255:3	117:4 118:16	238:22 239:2
	afforded	120:3 121:25	243:1 244:14
	11:19 44:10	122:13	246:12 250:3
	AFSA's 251:10	123:22	250:19 251:2
		123:23	255:9 263:12
			263:19 268:8

270:21	aggregate	142:24	18:18
270:23 275:2	170:16	143:15	18:24 19:3
279:23 280:8	ago 56:18	143:21	19:3 23:24
age 71:21	67:11	143:21	25:1 25:4
agencies	67:18	144:22	26:23 27:7
51:12	68:10 103:19	147:20 148:1	31:12
51:13 52:7	106:12	148:3 148:13	31:18 34:6
52:19	170:24	148:15	34:10 148:10
53:17 58:2	173:19	149:18	156:25
102:16	agreement	150:13	174:16
agency	80:16 80:18	151:10	206:20
47:12	agricultural	151:23	207:10
52:13 139:16	21:6 28:23	151:23	207:15
agenda 6:1	61:18 63:2	152:16	207:21
6:3 6:6 10:2	64:22 65:4	152:20	207:24
12:20 33:6	65:7 65:14	152:23 154:9	210:23 211:7
36:5 36:5	66:2 73:5	154:19	213:16
38:4 59:16	74:21 90:12	154:23	213:18 218:3
94:15 135:18	agriculture	156:14	218:11
135:19 136:3	61:11	AHJs 82:23	218:24 219:5
191:21 192:3	69:16	88:14	219:12 220:1
201:2	70:14	88:15 145:14	220:5
201:7	72:25 76:2	150:23 152:1	220:8
202:4	81:5 86:10	AHJ's	221:8 221:10
202:8 202:12	ahead 24:7	144:19 147:8	225:10
202:22	127:7 145:16	ain't 112:10	225:12
202:25 203:9	147:21	air 18:6	228:17
203:12	154:11	81:20 149:12	228:19
203:22	190:24 235:4	163:23	alarms 18:4
203:25	AHJ 41:9 49:9	163:23	88:8
204:10	65:19	Aircontrols	Albeit 273:25
204:13	71:14 89:4	165:24	alert
204:23	138:7 138:12	187:20	191:25
205:13	138:14 139:6	Aircraft	192:16
205:19	139:15	22:12	Alexandria
206:19	140:15	airport 23:11	15:6
206:23	141:10	27:10 272:23	align
206:24	141:17	Al 195:4	195:11
229:12	141:20	alarm 18:10	237:24
263:24	142:20		alignment

254:25	alone 85:25	165:24	137:3
aligns 45:2	already 15:25	185:11	137:6 158:13
196:21	29:21 41:7	187:16	180:22
alike 197:1	48:10	187:20	191:12
Allie 66:20	49:15	198:11	191:15 192:2
66:20 83:4	62:15	219:23	192:4
83:4	62:17 111:23	224:12	193:9 200:20
allow 11:17	119:8 149:23	236:17	201:1
40:23	151:21 178:3	239:10	201:6 201:10
83:18 87:6	185:12	239:10	205:4 205:24
104:19 116:4	187:22	275:15	206:1 206:22
119:17	188:18 189:2	275:19	208:2
120:19	243:18	Amazon 190:1	208:6 208:11
146:14	247:11	AMCA 158:17	217:8
174:16	247:11	159:8	230:3 230:12
174:17 212:1	252:18	173:6	231:18
225:4 246:23	256:13	182:1 182:20	239:20 242:2
allowable	256:16 257:6	amend 7:10	244:23
6:11 10:7	260:8	amended 35:17	245:13
allowed	260:9 260:12	62:25	248:13 251:5
99:3	260:17	63:14 208:17	253:21
111:12	260:17	amending 5:10	263:22
159:13	277:10	5:18 5:24	264:15
174:14	alternates	6:3 6:6 6:11	amendment
234:22	57:23	6:16 6:20	7:18 7:21
268:20	alternative	7:1 7:5 10:7	7:22 35:11
allowing	83:19 83:22	10:10	146:2 146:10
118:23	am 13:24 17:3	12:12	147:7
143:18	39:16	32:15	149:2
143:23	48:22 50:6	32:20 36:3	150:3
175:20	50:10 55:3	36:8 39:9	172:8
allows 171:24	80:3 81:2	39:19	173:2 198:12
187:22	87:11	59:14	208:20 209:2
234:19	109:3 112:16	60:16	America 28:17
234:20	112:22 113:6	60:22 77:5	American
alluded	121:10	94:13	74:10
274:12	121:17 122:9	95:18 126:22	74:13
Allyn 31:10	124:15	127:5	84:16
	132:17	128:6 128:10	95:22 96:4
	158:17	135:17 136:1	105:17
	158:19		110:24

162:13	70:17	266:13	220:19
162:17	70:22 71:6	266:13	anxiety 46:22
188:25 189:5	72:6 72:17	266:21	anybody 37:14
237:13 251:9	72:18	266:24 267:3	37:25 156:15
251:23	72:22 76:1	268:15	235:10
255:14	77:24	268:17	256:22
270:19 275:1	78:21	268:25 269:5	275:19
among 52:5	81:11 83:4	269:11	anyone 5:6
52:18 151:7	84:4 90:20	271:20 272:4	9:15 10:13
amount	animals 63:18	272:21	14:10
88:21	64:4 64:6	272:24 273:3	36:10
114:4 115:16	64:9 65:2	273:15	84:20 103:11
186:25	67:11	277:16	166:20 250:4
amputations	67:16 68:8	277:20	252:22
149:13	68:15	annexes 177:1	271:12
analysis 51:8	68:24 69:3	annex's	anything
55:1 72:8	69:7 69:8	272:10	59:11
212:9	69:18	announce 12:2	91:22
and/nor 152:1	71:19	14:19 37:2	107:4
and/or 146:15	71:20	announcements	111:5 112:10
150:13	72:22	34:13	118:7 132:22
Android 9:2	75:14	annual 6:1	135:22
angular 246:6	75:23 81:7	6:8 32:18	138:13 178:2
248:24	83:9 83:13	33:4 59:24	anyway 74:2
animal	84:9 84:21	95:1	123:9 262:16
27:23	85:12 85:22	127:13	anywhere 24:5
59:17	annex	136:12 145:6	68:23 188:15
59:22	131:23	181:10 192:6	apart 62:25
59:25	140:18	207:12	apologies
60:12	153:10	210:23 218:3	182:12
61:18	153:10	230:22	193:25
61:25	153:16	233:17	204:25
62:18 66:6	153:17	241:21 248:3	236:12
66:20	154:20	253:15	apologize
66:23	209:14	anomaly 78:17	43:12
66:25 67:3	209:19	answer 180:9	45:23
67:5 67:8	214:13	answering	129:4
69:4 69:15	220:21 227:3	9:11	215:7 258:17
70:6 70:9	227:19	anticipate	app 9:3 9:3
	265:12		
	265:15		

9:7 9:8 9:22	254:16	196:21	204:6 204:19
36:21	265:17 278:1	196:24	214:5
36:24 93:18	278:2	approached	232:2 236:22
apparatus	applications	201:3	251:25
191:24	98:11	appropriate	252:14
192:15	210:1 277:22	11:15	252:18 254:6
apparel	applied	83:24 84:2	254:24 264:4
191:23	252:10 261:8	87:7	approving
192:14	applies	101:14	258:1
appeal 7:18	138:14	118:25	April 68:4
35:7 35:10	apply 68:21	153:16	arbitrarily
appeals	69:2	195:18 196:2	102:8
7:14 35:25	118:24 131:6	243:11	arbitrary
appear	269:1	257:13	109:13 110:1
11:22 48:7	applying	260:18	archaic
192:3	81:24	267:22	167:16
appeared	85:23 101:16	269:14 270:9	area 34:12
135:18 201:2	271:12	271:10 278:2	45:3 63:12
202:4 202:12	appointed	approval	68:2 71:16
202:24	57:9	102:16	88:22
203:11	appreciate	139:15	89:22
203:25	118:22	140:15	210:3 215:25
204:13	260:25	144:19	areas 8:18
205:13	appreciated	144:22	50:15 75:1
263:23	13:19	145:15	75:5 113:9
appearing	appreciation	148:13	164:2 164:4
236:20	17:1 32:2	151:24	aren't 62:2
appliances	32:4	156:14	90:9
25:3 27:6	apprentices	156:17 264:5	argued 49:8
174:17	143:4 231:25	Approvals	97:21
applicability	232:13	120:2	arguing 112:3
196:16	236:16 239:9	approve	240:18
applicable	approach 10:3	62:8 139:7	272:20
131:8 152:14	45:2 71:23	141:10	272:21
162:2 184:15	120:14	151:23	argument
application	121:15	254:18	41:24
36:9 36:12	121:18 122:7	approved	73:13 98:24
52:2 70:24	152:24	129:3	Armon
86:25 240:20	172:16	139:1 202:18	
		203:5 203:18	

165:23	181:7	assistance	251:10
165:23	assemblies	9:14 15:25	251:24
187:19	132:19	assistant	255:14
187:19	133:14 134:1	89:17	264:18 265:8
Armstrong	180:25	assists 10:24	268:12
122:15	181:20	associate	270:20 275:1
122:17	assembly	66:23	275:3
arsenal 56:12	129:16 134:3	associated	assume
Arson 58:5	134:7	28:20 31:2	81:10 174:23
89:21	201:5	105:2 140:18	assumed
Art 92:4 92:5	202:7 202:21	151:8 277:7	176:17
221:19	203:8 203:21	Associates	261:20
221:20	204:9 204:22	17:23	assuming
224:21	205:19	29:13	160:14 175:2
224:22 225:2	249:21	133:8	175:25
228:7	assess 152:16	137:6 137:21	assures 169:8
228:7 228:14	195:17	147:14	ASTM 129:11
Arthur	assessed	158:17 159:7	129:12
60:21 61:7	11:14	173:6	129:22
ASHER 15:21	assessing	182:1 182:20	129:24
16:1	130:2	association	129:24 130:1
Asp 243:3	130:4	8:14 42:12	130:5
243:4 268:10	130:6 130:13	58:4 58:6	130:8
268:11	assessment	72:14 80:4	130:9 130:14
aspect 106:10	19:17	95:23 96:5	130:16
138:16 261:6	62:10 140:20	100:18	132:16
aspects	146:22	104:15	132:20
47:8	150:20	105:18	132:24
243:15	152:22	110:24	133:11
278:19	assessments	162:13 189:1	133:16
aspergillus	62:14 147:9	189:5 213:18	133:24
163:6	assets 220:13	214:2 221:10	ATEX 21:2
163:6 163:12	assign 97:4	225:12	attempt 41:22
163:12	assigned 9:22	228:19	167:14 274:2
163:19	36:22 65:3	231:24	attempts
163:21	assist	232:12	41:12
163:25 164:3	13:18	236:15	attend 195:5
189:18	36:15 67:7	237:13 239:8	attendance
assembles		239:24	10:13 194:2
		240:12 243:5	

attendants	240:15	18:15	Baird
89:2	240:20	19:24 25:8	122:14
attendee 5:14	241:13	29:23	122:15
attention	242:10	31:25 32:2	Baker 17:7
34:3 93:18	242:13 243:8	awarded 11:12	17:9
241:5	243:14	awards	balance 273:4
attest 46:22	243:17	14:19	balanced
attitude	automatic	16:21	172:16
139:18	17:11	16:22 30:2	balancing
audible 34:13	21:17	aware 87:18	165:2 165:16
audience	27:19 28:2	166:24	185:18
12:19	29:4 31:15	219:13	ballot 7:19
AUDIO 5:4	103:7	219:18	7:21 35:13
August 35:24	177:9 213:18	275:21	35:14
Australia	221:10	away 111:5	38:23
274:7	225:11	154:22	38:25
author 200:24	228:18	163:18	46:11 60:3
authorities	230:18	174:22	78:8 78:13
70:23 156:5	230:23	AWI 67:10	78:14
authority	272:17	85:11	80:19 95:8
83:18	available	85:12 85:19	95:9 97:7
83:24 138:22	5:12 5:22	AWIonline.org	127:20
139:1	9:4 9:5 9:14	79:1	127:22
139:3 146:20	10:8 33:6	AWI's 83:7	136:18
150:13	36:18 75:6	_____	136:19
152:23	82:2 96:23	B	141:11 142:3
156:16	116:14	backed 214:14	161:15 162:4
156:17	171:17 212:4	background	181:15
234:21	224:6	162:18	181:16 184:4
authorized	avenue 56:24	backs 188:17	184:18
6:14 10:1	Avis 261:25	backyard	192:25 193:1
202:12	261:25	68:21	207:18 231:4
202:25	avoid 146:18	bacon 79:20	231:8 242:19
203:13 204:1	award 14:20	79:22	255:2
204:14	14:23	bacteria	balloted
205:14	14:24 15:3	75:18	195:8
automated	15:4 16:17	badges 8:17	211:9 218:13
81:6	16:23 17:4		234:4
	17:7 17:15		242:8 248:21
	17:19		254:2

balloting 99:21	65:18 69:1 69:5 71:3	Bay 18:18 156:25	213:17 221:9 223:14
ballots 7:22 35:17 60:6 78:11 78:12 97:18 207:19	71:15 85:1 85:17 96:9 96:22 97:4 97:15 98:12 98:22	213:16 221:8 225:10 228:17 beat 185:11 185:20	224:11 226:24 227:15 239:24 240:12 243:5 256:10 257:1
Banner 155:4 155:6	101:8 119:13 146:21	beating 187:12	258:8 264:18 265:8 268:12
bar 54:13 272:24	156:19 195:7 198:19	became 16:7	270:20
bare 117:24	198:23 209:7 209:7	become 40:14 51:14 51:25 53:23 140:22	273:22 276:21 280:17
barn 67:4 67:12 68:21 69:9 84:9 85:11 87:13 91:4 91:7	211:8 212:9 212:17 214:6 218:13 232:22 233:1 234:3 236:19 242:7 248:12	becomes 11:20 171:17	behind 34:19 belabor 178:2 believe 78:17 79:16 110:14 142:16
barns 63:10 64:12 74:22 78:23 81:7 87:13 87:20 88:3 88:8 88:25 88:25 89:3 90:1 90:4 91:16	248:19 248:20 252:15 254:1 258:11 271:16 279:7 279:11	Beebe 162:11 162:12 162:13 170:23 188:24 188:25 188:25	166:20 167:13 170:8 171:10 180:10 188:20 223:1 268:17 274:8 277:5
barrier 76:1 154:8 166:6	basement 103:13	beef 82:21	believed 232:18 279:3
barriers 90:5 166:8	basically 77:23 106:12 115:15 151:3 246:4 247:13 257:9	begin 13:16 54:16 155:25 230:13	believes 196:24 265:12
based 7:14 8:10 21:23 35:20 41:2 44:14 49:23 63:10	basis 139:8 145:6 145:7 160:17 219:3	beginning 22:14 23:5 68:5	Belimo 165:24 187:19
	batteries 82:5	begins 5:4 9:25 115:13 163:14	bell 11:21 Bellis 14:3 beneficial 97:22
	battle 111:22	behalf 15:7 16:19 66:6 107:21 195:6	benefit 62:6 64:1

91:17 167:8	117:6	90:16 90:24	Bonet 125:7
benefits	137:5	birds 67:12	125:8
61:14	137:5 137:20	bit 121:15	book 111:7
61:22	137:20 140:5	162:18	276:16
82:17 188:1	145:13	165:15	bother 178:21
Bernie 29:13	147:13	246:10	bottom
Bernzweig	147:13	Black 92:4	92:21 125:16
197:12	158:16	92:5	134:20
197:13	158:16 159:6	221:19	134:24
198:24	159:7 160:20	221:20	157:10
best 51:16	173:5	224:21	179:13
57:18	173:5 173:10	224:22 225:2	199:14
66:14 91:6	180:19	228:7	bought 103:18
91:12 196:24	180:20	228:7 228:14	bracing 27:22
better 45:7	181:25	blame 79:10	28:5 31:16
110:14	181:25	blamed 79:11	246:19
123:12	182:10	blaze 146:14	246:20
124:20	182:19	blockage	246:24
235:25	182:19	177:12	247:10
beyond	230:14	board 31:8	248:11
14:18	230:16	42:11	248:18
84:24 91:3	231:16 233:8	152:9 241:5	249:14
102:2	233:10	boatyards	Brackett
107:4	234:24	27:4 30:17	155:4 155:4
119:9 119:11	234:25 238:7	Bob 237:11	brain 121:21
124:6 215:23	238:9 240:25	237:12	break 98:1
249:9 273:13	241:2	255:12	116:17
bid 259:4	244:3	255:13	126:24 206:6
259:8	244:5 247:19	body 166:23	breakage
biggest 87:20	247:21 250:8	186:12	75:21
164:3	250:10 253:7	242:14	breaks 115:13
Bilbo	253:9 262:22	267:16	breathe 163:9
124:14	262:24	268:25	163:11
124:14	265:21	269:21	breathing
237:20	265:23 268:4	271:16	191:24
237:21 260:1	278:15	body's	192:15
260:2	278:17	78:19 170:21	breeds 259:7
Bill 107:17	billion 76:17	bolster 52:13	Brian 25:24
107:18 117:6	bio 63:18		
	73:24 90:13		

25:24 26:1	19:23 20:8	71:18 142:23	74:15
26:8	20:13	146:11 161:6	165:2 185:18
104:13	20:14	165:9	buried 246:1
104:14	20:15	168:5 168:14	burn 69:19
213:25 214:1	22:23 23:3	169:21	88:25 112:1
brief 120:3	23:4 23:12	169:23 176:5	business 6:25
briefly	25:16	176:7	20:18 32:7
176:24	26:24	176:9 176:11	33:23
Brigham	63:12 68:1	183:20 262:5	56:21
150:10 186:9	68:13	262:7	78:24
Brill	71:16	building's	87:23 107:24
145:24	71:16	140:25	111:11
145:24 172:6	71:19 86:6	146:25	businesses
172:6 172:11	88:12	built 269:19	77:4
187:10	97:25 103:14	bullet	busy 19:14
187:10	103:22 107:9	87:15	button
brings 146:4	138:18	88:13 112:11	58:23
broad 81:24	138:23	bunch 178:13	92:21 125:17
82:16	140:25 141:3	bundled 93:15	126:7
broader	141:4 141:23	Bunker	180:1
146:24	142:2 143:23	17:20	190:9
196:21	144:2 147:18	17:22	200:4 216:20
broken 151:5	147:21 150:5	17:23	222:13 226:5
broker 61:9	152:17	207:4	238:19
brought	152:21 156:4	207:6 210:17	238:23
97:2 104:2	160:5	216:12	244:11
156:6 224:17	160:6 161:14	217:22 222:7	247:16
227:22	165:7	230:7	250:16
258:23	167:8	burden	256:19
275:25	169:5 172:22	61:21	260:20
276:24	174:12	82:17	262:16
276:25	174:20	139:2 173:17	263:10
Buckeye 108:7	174:24 184:3	173:21	278:10
budgets 56:10	252:1 254:21	271:12	279:20
build 51:10	255:21	burdening	buy 103:20
building 19:6	255:21	76:3	274:12
19:15 19:22	257:12	bureau	BX 175:24
	257:14	74:10 74:13	bylaws 245:8
	258:14 262:7		
	buildings		
	67:21		
	67:23 68:6		

<p style="text-align: center;">C</p> <p>cable 160:11</p> <p>cables 189:10</p> <p>CAFO 70:24</p> <p>CAFOs 70:7</p> <p>71:12</p> <p>73:13</p> <p>73:20</p> <p>79:10 86:3</p> <p>86:4</p> <p>cage-free</p> <p>79:9 79:11</p> <p>Cal 200:23</p> <p>calc 275:14</p> <p>calcing</p> <p>275:16</p> <p>calculate</p> <p>275:10 276:9</p> <p>calculated</p> <p>98:10</p> <p>calculation</p> <p>258:25</p> <p>calculations</p> <p>209:13 252:5</p> <p>252:8</p> <p>259:1 275:14</p> <p>California</p> <p>18:18</p> <p>157:1 213:17</p> <p>221:9 225:11</p> <p>228:18</p> <p>CAM 39:10</p> <p>42:1 48:22</p> <p>60:23 63:6</p> <p>64:13</p> <p>72:10 78:20</p>	<p>79:23</p> <p>84:17 96:6</p> <p>99:13 104:16</p> <p>105:9 107:11</p> <p>130:15</p> <p>158:19 182:1</p> <p>184:21</p> <p>184:22</p> <p>184:23</p> <p>193:11 194:2</p> <p>199:2 209:17</p> <p>209:24</p> <p>210:12</p> <p>211:10 214:3</p> <p>214:17</p> <p>217:14</p> <p>218:14</p> <p>219:24</p> <p>219:25</p> <p>220:19</p> <p>221:11</p> <p>221:14 223:7</p> <p>223:19</p> <p>224:15 227:4</p> <p>233:5</p> <p>234:5</p> <p>237:4 237:16</p> <p>239:18 240:1</p> <p>240:14 242:9</p> <p>245:9 245:12</p> <p>245:17</p> <p>248:22 252:4</p> <p>254:3</p> <p>264:5 264:20</p> <p>265:10</p> <p>266:19</p> <p>CAM-72-2</p> <p>227:20</p> <p>camera 12:24</p> <p>camps 77:23</p>	<p>campus 166:18</p> <p>CAMs 32:16</p> <p>32:21 36:3</p> <p>62:7 264:11</p> <p>Canada 21:16</p> <p>cannabis 19:8</p> <p>cans 175:24</p> <p>189:9</p> <p>CAP 107:18</p> <p>capability</p> <p>102:2</p> <p>capable 124:6</p> <p>capacities</p> <p>116:19</p> <p>capacity 63:9</p> <p>96:10</p> <p>96:18</p> <p>96:19 97:5</p> <p>97:16</p> <p>98:16</p> <p>101:8</p> <p>106:1 106:14</p> <p>107:5 114:13</p> <p>117:13 119:2</p> <p>119:7 119:19</p> <p>Captain 30:13</p> <p>captures</p> <p>12:25</p> <p>Caputo 237:11</p> <p>237:12</p> <p>255:12</p> <p>255:13</p> <p>car 176:16</p> <p>265:17</p> <p>266:22</p> <p>267:12</p> <p>267:12</p> <p>267:17</p>	<p>267:18</p> <p>267:19</p> <p>267:19</p> <p>267:23</p> <p>267:23</p> <p>268:21</p> <p>269:10</p> <p>269:11</p> <p>269:16</p> <p>269:18</p> <p>269:25</p> <p>270:25</p> <p>271:19</p> <p>271:20</p> <p>271:22</p> <p>273:13</p> <p>273:13 275:6</p> <p>277:19</p> <p>Carbon 18:25</p> <p>care 27:2</p> <p>139:11</p> <p>144:10</p> <p>144:12</p> <p>144:23</p> <p>144:24</p> <p>144:25 145:1</p> <p>150:17</p> <p>150:18</p> <p>150:22 151:7</p> <p>151:17 155:7</p> <p>156:6</p> <p>170:6 170:18</p> <p>171:25</p> <p>174:10 176:7</p> <p>177:25 185:9</p> <p>186:16</p> <p>186:19 194:8</p> <p>194:11</p> <p>194:17 198:6</p> <p>235:17</p> <p>career</p>
---	---	---	--

89:19 124:17	catch 264:13	212:2 212:11	262:12
careful 196:8	categories	212:20	certification
carefully	72:18 72:18	212:23 213:1	6:22 32:24
57:12 81:8	cattle	214:18 272:2	139:16 152:9
Carl 276:20	67:13 68:11	ceilings	214:14
276:20	caught 78:1	132:20	certification
Carmel 92:5	160:16 178:8	186:17 189:3	s 55:22
221:20	cause 53:12	211:13	certified
224:22 228:7	72:3 85:2	211:20	5:10 5:18
Carolina 26:2	86:24	211:22	5:24 6:3 6:6
26:3 29:14	88:19 149:10	212:16	6:10 6:16
carriers	149:13	212:17	6:20 7:1 7:5
91:10	caused 67:5	212:25 213:7	10:6 10:9
carries	causing 91:14	214:10	12:12
158:11	cavitate	cellulosic	32:15
carry 165:10	96:24 99:3	21:7	32:20 36:2
cars 267:11	cavities	center	36:7 39:9
269:16 270:3	164:5	11:22	39:19
271:22	164:5 189:8	12:23 13:2	59:14
273:11 279:2	cavity 164:6	13:5 34:6	60:16
case 53:15	cease 92:23	34:18	94:13
64:2	ceased 93:2	144:7 156:8	95:18 126:22
124:21 168:7	157:17	centers 15:24	127:5
174:10 261:4	ceasing	15:25 73:22	128:6 128:10
269:15	157:13	CEO 54:25	135:17 136:1
cases 69:6	Cecil	certain	137:3
71:11 262:13	124:14	36:9 73:5	137:6 158:13
cash 76:16	124:14	75:5	180:22
Cassandra	237:20	111:11	191:12
46:5 46:6	237:21 260:1	168:25	191:15 192:1
152:8 152:8	260:2	243:15	192:4
cast 7:24	ceiling 164:5	certainly	193:9 194:15
11:11	164:6	70:10 266:4	200:20 201:1
34:22 37:6	171:4 176:22	certificate	201:6 201:10
37:19 37:22	189:8 208:18	252:20	205:4 205:24
catastrophic	209:2	256:14	206:1 206:21
97:23 105:5	209:6	256:17	208:2
	210:1 211:25	260:13	208:6 208:11
		260:15	217:8
			230:3 230:12
			231:18

239:20 242:1	211:3	201:17	174:24
244:23	211:5	217:10 221:7	209:21 210:9
245:13	213:8 213:15	222:25	231:19
248:13 251:5	218:6	chairs 266:3	changed
253:21	218:8	chair's	106:20
263:21	218:9 221:19	38:6 94:18	108:17
264:15	221:22	207:2 230:13	108:22 111:6
cetera 109:16	224:21	challenge	167:2 246:18
CFR 195:12	225:21	49:21 74:23	changes 75:25
Chad 162:12	227:25 228:7	challenged	138:25 160:5
162:13	228:8 228:16	159:24	160:7
188:25	229:2 230:14	challenges	160:9 161:13
188:25	231:22	120:9 166:25	163:23 184:2
chair 10:10	232:10	167:4 174:11	261:11
13:25 18:2	233:10	186:17	changing 42:3
18:6 18:8	233:21	Champlin	52:24 55:1
19:2 22:9	233:24 234:1	28:18	123:10
22:11	236:12	chance	141:15
24:14 25:2	236:13 237:2	110:4	147:17
25:19 26:6	238:9	114:6 114:15	198:23
26:23 27:9	239:6	183:2	chapter 16:13
29:18 30:3	241:2 241:25	change	41:6 65:4
30:8 30:14	242:3	39:21 48:1	65:7 66:2
30:18	242:5 242:21	48:3 48:3	86:8 86:12
30:19	247:21	53:12	86:21
30:22 31:7	248:10	53:13	131:1 131:15
31:14	248:15	62:18 102:25	131:17
32:11	248:17	103:10	131:19
38:10 49:2	253:19	104:21	131:22 220:2
50:6 58:18	253:22	108:16	220:9 220:21
59:18	253:24	108:23 114:7	232:24
59:19 92:4	255:12 258:6	114:21	236:22
127:8	262:24	119:17 120:4	240:19
136:6 162:12	265:23	137:22 138:9	242:16
173:17 181:2	265:25	138:10	243:19 246:2
186:7	268:16	138:12 140:1	246:9
192:8 194:21	273:21	160:15	247:4 247:12
195:4	278:17	160:15	247:24
207:5	chairman	166:16	248:25 249:1
208:4 211:1	42:11 107:17		249:9 252:5
	132:11		
	201:16		

252:8 252:19	215:10	Clarksville	195:14
252:25	choose 37:1	30:20	195:18 196:1
253:20 254:7	87:1	Clary 18:15	196:12
254:11 257:4	chose 254:23	18:15	196:18 197:2
260:4 260:12	chosen 70:4	18:17	197:19
266:13	73:15	19:13	197:23 198:3
266:24	86:13 202:5	19:25 24:3	198:6 198:15
268:21 274:1	Christopher	156:25	clear 61:22
275:22	142:13	156:25	68:19
277:20	142:13	213:15	76:23
chapters	142:13	213:16 221:7	80:12
232:16	153:23	221:8	82:17
charged 43:17	153:23 168:3	225:8 225:10	111:3 134:21
Charles 31:20	168:3	228:16	143:1
31:21	188:7 188:7	228:17	143:9 143:24
checked 86:10	circuit 105:2	class 65:13	146:17
176:14	circuits	classificatio	153:25
176:16	105:6	n 266:12	154:10 229:8
checklist	circumstances	266:22 267:4	243:10
49:20	84:1 141:2	267:23	258:10 261:4
checks 168:13	cited 145:18	268:18	clearly
chief 22:2	cite-it	268:22 269:2	47:8 83:11
22:4 46:6	139:18	269:3	84:10 165:25
46:14 56:9	citing 98:20	269:6	261:10
89:18	city 30:24	270:2	click 79:1
children	124:3	272:6	client 262:8
163:17	claim 272:10	276:4 279:4	clients 62:22
165:14	claims 30:9	classificatio	climate 86:2
Children's	64:9 188:17	ns 268:24	clinics
163:16	clarification	classify	156:12
Chisholm 30:3	93:23 249:17	267:13	close 11:25
Cholin	clarify 98:17	clean 70:18	13:1 33:9
208:3	112:12	71:7 82:4	34:3 37:7
208:4	201:24	149:12	37:20 94:5
208:5	clarifying	195:22 236:5	135:4 146:14
208:5 208:10	269:9	cleaning	157:16 158:7
208:16	Clarke 121:1	163:24 194:4	177:4 177:11
210:14		194:4 194:11	180:13
		194:18	190:13 191:4
		195:10	

200:11	CMS 156:8	261:17	269:17
222:19	code 9:22	codes 9:6	combustibles
226:14	17:25	17:3 59:17	269:14
229:21	18:21 19:6	87:6 113:7	combustion
244:18	19:12	138:15 148:6	30:21 89:25
250:22 280:2	19:15	152:14 153:2	comes 49:1
280:4	19:20	171:8 171:10	52:4 53:11
closed 37:8	19:21	212:7 254:13	79:6 85:9
59:5 59:6	19:23 20:8	collaboration	106:10
94:6	20:14	52:6	124:18
126:13	22:23 23:3	colleagues	138:22
126:15 135:5	23:12 24:8	53:25	163:25
168:18	24:15	College 15:5	comfortable
168:20 169:2	24:15	Colorado	37:25 272:3
174:3 175:12	25:16	39:18	coming
175:12	26:24	Columbus	56:10 206:14
175:15	36:22 41:4	197:14	247:9 256:23
175:23 177:4	60:1 60:13	213:18	commendable
177:7 178:15	62:14	221:10	69:14
179:17	62:24 65:4	225:12	comment 39:20
180:14	73:7 79:6	228:19	40:1 43:9
190:14 191:5	79:18 143:19	combination	44:7 54:20
199:20	143:22	182:23	57:4 58:22
199:21	143:24	combined 72:4	65:12
200:12	152:18	203:24	65:19 80:6
222:21 239:1	160:13	combines 6:6	80:8 95:23
244:19	160:13	combustibilit	97:10
250:24	175:22 178:5	y 130:2	98:19
263:16 280:5	187:21	130:5	99:13 104:18
closely 67:15	188:21	130:6 133:13	123:17 126:6
170:8 170:9	206:20	134:6	130:24
closer 79:17	207:10	combustible	133:10
closest	207:16	21:5 28:19	134:17
224:24	207:24	28:21	139:24
closing 91:19	210:24	28:22	153:15
93:9 177:9	212:13	28:22	165:18
clothing	214:12	28:24 131:15	193:12
192:12	214:19 218:4	133:15	193:14 194:3
CMI-AAA 26:21	220:18 252:6	269:10	196:6 200:3
	252:25 253:3		
	254:16		
	256:15		

219:1 248:23	16:22	57:16	129:3
249:4 249:18	16:23 17:6	57:18	130:7 130:23
250:7 250:15	17:19	57:22	131:2
258:23	18:14 20:7	59:22 60:3	136:9 136:14
278:22	21:4 21:21	61:17	136:18 138:3
commented	22:6 24:10	61:25 62:9	138:7 138:25
98:14	25:6 26:15	62:11	139:14 140:7
comments	27:9 29:22	64:17	140:9 140:10
13:12 57:6	30:2 30:11	64:20 65:8	140:21 141:1
65:23	30:12	65:16	141:8 141:13
78:14 80:8	30:21	65:24 66:7	141:18
93:6	30:25 31:2	67:1 67:2	141:19
134:16 138:4	31:3 31:7	73:2 73:15	141:22
138:6 141:14	31:15	77:18	143:11
161:17	31:24 32:7	77:21	159:15
173:12 184:6	32:11	77:24 78:2	159:23 160:3
216:11	32:14	78:4 78:9	160:22
218:21 222:6	32:21 33:4	78:10	160:25
225:21	35:12	78:15	161:12
234:24 238:8	35:12	78:18	161:19
244:4 262:23	35:14	83:23 84:5	161:24
277:7 278:16	35:18	87:3 87:15	173:16 181:6
commercial	35:23	94:23 95:3	181:11
65:14 85:20	38:11	95:8 96:13	181:15
Commission	38:15	96:22 97:9	183:11
26:21	38:20	98:22	183:14
commissioning	38:24 42:3	99:19	183:14 184:1
19:18	43:14	99:22	184:8 184:13
20:10	43:18	99:24	186:2
20:12	43:21	100:2 100:18	189:6
23:20 24:24	43:22 44:3	101:25	192:5 192:11
commitment	44:5 44:8	102:11	192:20 193:5
16:4 51:15	44:11	104:20	194:1 194:24
52:14 201:15	44:16	108:20	195:1
committee 6:3	44:19	109:11	195:5
6:5 6:21	44:23 45:5	112:23	195:8
7:19 14:25	45:10	120:13	196:5
15:13	45:16	122:19	196:9 196:24
15:17 16:2	45:21 46:9	127:11	197:13
16:6 16:12	52:9 55:3	127:15	197:17
	57:9 57:10	127:20 128:2	198:13
	57:12	129:2	198:25

201:16	240:17 241:7	278:20	136:23
201:16	241:17	278:23 279:9	139:25 148:5
202:17 203:4	241:19	committees	181:19
203:17 204:5	241:25 242:6	16:25	194:20
204:18	242:8	17:11	194:23 195:6
206:25 207:8	243:6 246:11	17:24 18:3	210:19 214:5
207:13	246:17	18:19	217:21
210:16	246:19	18:23 19:5	217:24 228:1
210:20	246:19	20:9 20:16	231:14
210:21 211:1	246:20	21:6 21:17	232:20 233:9
211:6	246:24	22:8 22:22	233:12
211:9 211:16	247:24 248:1	23:4 23:10	234:17 241:1
211:18	248:10	24:12	241:16
211:23	248:18	24:23	247:20
212:15	248:21 249:3	24:25	247:23 253:8
213:21	249:13	25:16 26:4	265:22 266:7
214:11	253:10	26:18	267:2 269:7
214:16	253:11	27:20 28:3	Committees
215:14	253:13	28:19	45:4 50:15
215:15	253:19	28:21 29:2	commodities
215:24	253:25 254:2	29:14 30:5	261:11
216:13	254:9 254:17	30:15	common 62:3
217:25 218:1	254:22 260:5	31:11	166:1 166:13
218:6 218:10	262:25	31:21	commonly
218:13	263:25 264:3	38:13 51:5	168:16
218:18	264:19 265:9	73:12 80:7	communication
218:20	265:11 266:1	192:21	218:23 219:7
218:20	266:3	192:25	220:22
218:25	266:8 266:17	207:18	223:18
219:16 220:3	267:1	207:23 231:4	224:14 227:3
230:18	267:8 267:10	266:4 272:20	communication
230:23 231:5	267:15	278:21	s 47:23
232:3 232:18	267:25 268:2	committee's	communities
233:13	268:13	33:2 39:5	15:25 16:6
233:15	268:16	43:9 60:11	74:18
233:22 234:2	270:12 272:3	64:24	community
234:4 234:13	272:11	95:14	43:6 55:8
236:5 236:19	272:12	97:12	57:19
236:23 237:3	275:19	99:10 104:18	58:16 63:2
238:10	275:24	129:10	
239:25	275:25 277:4	130:20	
240:13	277:9 278:18		

companies 61:15 64:8 87:22 114:9 234:19	259:21	154:20	condition 75:20 100:5 100:7 100:8 100:23 100:24 101:3 101:15 105:1 110:7 111:8 113:8 113:19 114:20 117:15 118:9 118:22 141:10 141:21 160:12 175:3
company 10:17 10:20 18:18 46:16 60:22 61:8 157:1 169:12 213:16 221:8 225:10 228:17	component 119:13 174:6	165:10 172:24 176:10 271:14	
compartment 129:15 129:17	components 97:1 99:2 99:5 101:17 148:11 198:15	concerned 34:1 85:13 141:22 165:5 260:5	
competitive 122:25	composition 43:19	concerning 49:16	
complete 5:12 9:22 36:22 101:5 166:10 252:11	comprehensive 67:6 152:21 196:19	concerns 14:15 38:1 52:23 149:1 161:11 172:14 183:25 198:14 199:1	conditioning 18:6
completed 168:13	comprise 75:22	conclude 11:23 280:15	conditions 101:5 102:3 102:9 115:19 123:6 138:9 140:19
completely 156:1 166:12 232:19	comprising 91:3	concludes 16:20 59:13 94:12 126:21 136:1 180:21 191:11 205:23 230:3 280:18	conduct 5:16 11:16
complex 63:10	compromise 104:5 108:19 169:18 169:22	conclusion 13:10 32:22 172:22	conducted 49:3 117:21
compliance 43:25	compromising 172:14	Concord 18:18 157:1 213:17 221:9 225:11 228:18	conducting 6:25 33:23 47:24 56:22
compliant 40:14	computer 27:1		conductors 105:2 117:24 118:1 118:4
complicated 72:8	concentrated 69:4 70:6 70:16 71:6		confidence 52:17
comply 51:13 106:19 139:13 151:3 182:24 259:19	concept 96:13 159:20 186:13 243:17 278:25		confident 48:2
	concepts 15:24	concrete 88:11 88:11 90:5 105:20	configuration
	concern 97:14 149:4 152:15		

254:19	connected	176:25	57:21 73:4
257:23	225:5	180:22	73:10
259:11	connecting	191:11	78:14 209:12
confine 69:2	258:9	205:23 206:2	209:23 214:8
confined	consecutive	214:20	240:20
68:12	76:20 76:21	215:22	consisting
confinement	consensus 8:2	220:23 249:6	38:21 95:5
69:10	14:8 33:13	255:22	127:16
confirm 78:16	34:24 57:15	consideration	136:16
267:11	consequence	s 196:8	181:13
conflict	75:24	considered	192:22
117:11	consequences	44:5 48:4	207:15
conflicting	81:25	57:12 69:3	230:25
278:21	103:9	87:16	consists
conflicts	104:1 110:17	90:25 99:4	57:22 60:17
102:17 195:2	246:13 247:1	131:10	constantly
210:22	consequently	140:19 141:9	79:13 269:19
214:13 218:2	208:21	152:25 201:5	constructed
233:16	209:16	202:7 202:21	68:22 90:4
238:11	209:22	203:7 203:20	construction
241:20 248:2	conservatism	204:8 204:21	20:14
253:14 263:1	118:24 119:8	205:18	63:12
confronting	conservative	208:20	71:16 140:22
76:24	118:23	215:19	146:25
confused	118:25	215:24	168:11
257:3	consider 44:3	considering	187:13
confusing	71:20 76:5	52:22 102:25	188:19 256:3
78:16	114:1 198:13	consistency	consultant
confusion	211:18	47:12	61:10
80:20 102:17	considerable	47:24 52:5	61:16 62:21
congratulate	214:15	73:7 73:12	Consultants
21:1	consideration	74:3 86:20	24:8 24:22
congratulating	5:18 6:9 7:1	86:25	28:18 208:5
g 16:16	36:8 44:15	140:3 184:23	Consulting
conjunction	59:13	185:13	25:15 118:19
7:25 34:23	94:12	188:20	215:9 261:3
91:9	97:13 105:12	224:18	contact
	126:21	227:23	129:23 163:1
	172:12 174:8	consistent	163:2 163:2
		15:15 52:2	

contacted 219:9	continuous 16:24 51:15	controllers 105:1 112:21 117:19 117:22	182:13 223:2 257:18 260:5
contain 134:1 171:6 242:16 267:4	contracting 259:4	controlling 90:18	correctional 26:25
contained 49:15 75:16	contractor 112:16 143:23 147:25 252:22 255:17 255:24 259:6 261:20	controls 81:2 81:4 81:6 172:13	correctly 146:5
containing 161:7 183:21 191:24	contractor's 261:9 261:21 262:13 275:3	controversial 243:15	corrects 142:16
contains 75:17 256:12	Contrary 173:24	convenience 5:13	correlate 41:18 236:24 266:24
contaminant 88:22	contribution 8:1 14:25 34:24 43:3	convenient 8:25	correlated 137:14
contamination 64:5	contributions 14:21	convention 5:20 5:20 6:15 34:6 34:18 202:17 203:4 203:7 203:17 203:20 204:5 204:8 204:18 204:21 264:3	correlating 17:24 18:19 20:7 22:6 22:22 24:9 25:6 26:15 28:19 30:25 35:12 98:4 104:22 137:9 157:24 158:21 158:25 179:25 182:4 182:8 190:23 192:11 192:20 194:23 194:24 195:1 201:15 207:8 207:13 210:19 210:20 210:21 217:24 217:25 218:1 224:16
contemplated 210:2	control 26:18 61:10 109:25 117:7 117:8 118:8 163:3 163:22 164:1 164:10 169:2 170:14 171:14 172:1 172:9 174:1 174:11 187:14	conversation 151:22	
content 41:7		conveying 21:8 28:24	
context 70:18 70:21 90:8 149:7		conveys 45:7	
continue 9:1 87:4 92:24 97:22 110:14 115:11 125:21 157:14 179:15 206:11	controlled 118:6	cooperation 52:19 191:17	
continued 44:14 76:25	controller 100:9 106:17 109:18 118:2	copper 117:25	
continues 12:15 220:7		Corporation 28:18	
continuing 8:24 69:19 115:22		correct 78:19 83:6 132:13 173:9 180:11	

227:21	266:10	counsel 14:6	cows 68:12
230:18	correspondenc	counties	crack
230:23 231:5	e 70:12	86:18	175:19
233:12	Corresponding	countless	175:19
233:13	98:5	14:12	175:20
233:15	cost 106:7	country	craft 30:11
238:10	106:18	58:2 76:2	30:18
241:16	111:17	76:6 86:1	Crawley
241:17	111:17 165:7	86:19	206:10
241:19	166:8	87:19	206:13 207:6
246:17	council 7:7	88:15 130:13	207:25 208:8
247:23	7:12 7:16	170:10	208:12
247:24 248:1	8:5 8:7	County 34:6	208:14
251:13	13:25 14:4	34:17	210:14 213:9
253:10	22:13	couple	213:23
253:11	27:11	157:6	214:22 215:5
253:13 254:5	27:12	165:4 176:25	216:6 216:15
262:20	32:12	209:8 217:18	217:17
262:25 263:9	33:15 35:2	223:2 232:16	219:20
264:21	35:5 35:8	coupling	220:25
264:24	35:19	248:24	221:17 222:1
265:22	35:24 39:5	248:25	222:8
265:25	43:16	couplings	223:3 223:22
265:25 266:7	43:17 45:5	249:7 249:21	224:1 224:19
266:8 266:17	74:11	course 58:7	224:25 225:6
266:20 267:2	77:12	78:25 82:5	225:17
268:16	84:17	87:21	225:24
270:12	128:2 145:25	court 18:11	226:18 227:6
275:24	172:7 187:11	49:8 49:9	227:9 227:24
275:25	201:12	71:11	228:3 228:13
278:13	206:10	courts	228:15
278:18	231:14	40:24 55:9	228:24 229:4
278:19	251:11	CoV-2 196:4	229:10 230:8
279:19	270:21	coverage	230:16
correlation	280:18	196:19	231:16 232:5
195:2 210:22	council's 8:9	covered 86:11	232:7
218:2 224:18	60:11	178:3 256:16	233:7 234:24
233:16	95:14 136:23		235:1 235:12
238:11	181:19 193:5		236:8 236:11
241:20 248:2	207:23		237:9 237:18
253:14 263:1			238:4 238:14

239:14 240:3	131:2 131:18	278:23 279:5	212:13
240:8 240:24	131:21 140:9	279:6 279:12	258:24
242:22	140:10	279:13	270:24
243:24 244:6	141:14	criteria	currently
245:4 245:18	218:20	98:13	22:12
245:20	creates 54:13	critical	57:22
247:18	creating	85:22	100:4 100:20
249:24	43:18	90:14 138:16	100:25
250:11	47:13	142:1	109:15
251:15	53:14 58:7	146:7 172:17	110:15 111:7
251:18 253:6	165:7	198:10	166:8
255:5	creative	214:18	218:9 249:15
256:7 256:20	171:15	220:13	277:20
258:4 258:15	credentials	Crop 53:6	curve 96:11
258:18	6:18	cross-	96:21
259:13	credibility	functional	106:6
259:24	82:24 208:25	15:13 16:8	114:2
260:22 261:1	criteria	23:18	114:3 114:25
261:23	17:12	culpa 221:21	115:17
262:17 263:4	17:13	Culpeper	115:21
264:22 265:2	21:19	25:15	115:21
265:20 268:4	21:20 28:4	culp 89:24	curves 105:25
270:16	28:7	Cultural	122:24
272:14	111:13	19:19	custom 6:7
273:19	164:15	cumbersome	192:18
276:19	201:18 213:6	48:8	customers
278:12	214:12 234:2	curiously	88:10
279:15	234:22 242:6	209:10	cut 106:3
crawling	253:25	209:10	143:7
142:23	254:10	current 84:22	cutting
create	258:12 260:5	85:1 85:6	16:3 75:17
47:18	266:12	104:5 105:22	cycle 6:8
49:12	266:14	117:15	38:19 44:2
49:20	266:16	117:17	59:24 63:4
50:14	266:25 267:5	117:20	95:2 96:16
53:11	267:8 267:10	117:22 118:3	97:3
61:21	267:21	123:2	102:22
75:25 87:6	267:25 271:5	138:1 138:18	104:23
131:13	271:17	188:11	120:15
131:15 175:2	274:11		
created 40:10			

127:14	97:24	159:22 161:1	189:16
136:13 140:1	97:24 100:8	161:4	189:16 214:7
159:15 161:2	damn 275:10	161:9 161:12	214:15 216:3
164:17	damper 138:19	162:23	267:6
181:10 183:4	139:5	165:11 166:1	275:8 275:20
183:7 183:16	139:5	166:18	275:21
192:19	141:2	166:24	276:15
207:12 216:1	141:6 141:17	167:12	date 108:9
230:22	142:25 143:5	167:20	dated 70:12
233:17 236:5	143:8	168:18	Dave 20:3
241:21	145:2	168:20 169:2	20:20
246:21	145:5	171:19	150:9
246:25 248:3	145:9 145:10	171:21	150:9
249:11	146:3 146:13	172:25 173:8	186:7
253:15	146:23	175:11	186:8 198:24
266:15	147:17	177:15	Davenport
272:25	147:18	178:23	21:3
273:16	147:23	178:24	David 20:3
277:11	147:24	182:23	20:5 50:5
cycles	152:12 154:8	182:25	50:5 50:10
32:18	155:18	183:16	50:13 74:9
96:15 169:19	155:22	183:23 184:1	74:9 120:1
173:19	159:21 160:8	186:23 187:1	120:2 133:21
<hr/>	160:10	187:6	133:22
D	160:11	Dan 20:23	197:12
DAC 220:21	161:22 164:7	21:2 21:10	197:12
225:5	166:7 168:18	30:3 30:4	Dawn 14:3
DACs 225:4	168:24	218:7 218:9	day 19:20
Dagenais	173:18 174:3	dangerous	23:1 29:19
150:9	174:4	114:7 144:1	30:12
150:9	174:9	DANIEL 218:8	40:17
186:7 186:8	175:1 184:11	dark 164:4	113:7
dairy 82:21	dampers	data 47:9	151:2 191:18
Dallaire	140:13	62:2 66:3	275:10
190:1	140:22	82:19 85:9	276:13
190:1	141:24 142:1	98:20	daycare
211:2	143:2 152:11	100:3 104:21	23:8 73:22
211:3 211:4	155:11	161:20	days 7:16
damage 75:21	155:12	169:13 184:9	7:20 7:23
	155:15		
	159:14		

35:9 35:13	185:1	declines	201:18 234:7
35:18	197:6 213:10	76:10	234:14
90:20 168:14	215:17 221:1	declining	235:20
de 133:21	235:5 242:23	76:25	235:22
133:22	250:1	decontaminati	235:23
dead 185:11	255:7 268:6	on 195:19	235:24 236:1
185:20	debated 32:16	decrease	236:3 236:19
187:12	96:14	76:15 167:13	236:22
deadliest	debates 34:25	decreasing	236:24
67:16 68:10	280:15	76:6	237:25
deadly 171:2	decade	dedicate	240:15
deal 56:19	67:11 68:9	90:19	240:18
151:12 152:2	69:9 77:22	dedication	240:19 241:9
163:9	84:8	33:15	241:10
dealing 74:24	decades 71:10	deem 11:15	241:13
deals 265:24	76:10 174:15	deemed 196:14	242:10
death 64:4	177:14 198:8	deeming	242:18
69:19 110:12	December	151:15	243:11
deaths 67:5	43:16 57:9	deeper 102:21	243:16
162:21 164:9	decide 269:3	104:4	243:21 246:1
164:10	decided	Deere 53:6	246:8 246:18
164:11	73:3	defer	246:21
165:14	159:16	210:25 218:5	246:25
debate 7:25	239:16	241:24 248:9	248:25 249:6
8:3 11:25	decision	253:18	249:18
12:11	8:9 35:19	deficiency	249:22
12:14	104:18 107:2	139:20	definitions
12:25 13:1	139:18 214:5	defined	71:12 242:16
34:23	246:15 274:4	100:25	242:17
35:22 36:8	279:7	115:24	definitive
46:1 57:14	decision-	defining	153:13
66:10	making	258:20	DEGIORGIO
77:14	152:19	definition	127:9 130:21
79:15 93:4	decisions	69:1	134:17
100:11	33:3 261:10	131:14	degree 112:12
125:21 132:2	declare 33:22	131:19	246:5 246:5
142:7 157:13	280:22		delay 33:17
157:14 162:8	declined 76:8		delegated
166:3 179:15			261:14
			261:19

delete 131:14 161:17 184:6 220:4	187:10	258:11 271:4	62:10
deleted 232:21 234:6 242:10 254:6	department 22:5 26:2 50:17 170:4 257:10	272:8 274:10 275:9 275:9 276:5 276:11	62:14 194:4 194:10 196:22 201:18 211:25
deleting 240:18	depend 144:2 169:24	designate 141:17 141:24 142:1	details 63:8 85:10
deletion 218:15 218:21 219:2	dependent 134:3	designated 8:18 141:6 154:8 154:18 202:13 203:1 203:14 204:2 204:15 252:21	detection 19:1 65:9 82:9 82:14 88:3 88:7 88:7 210:6 212:7
deliberations 219:16	depending 86:1 97:25 211:21	designed 79:18 91:13 101:13 107:5 117:19 257:17 257:25	detector 82:4 82:6 211:22 212:10 212:17 213:5 214:9
deluge 109:16 110:9	deployed 220:10	designe 10:2 10:10	detectors 174:15 209:14 211:13 211:20 213:1
demand 102:6 106:1 111:20 112:6 114:6	deployment 41:4	designs 119:10	detention 26:25
Demkowski 120:25 120:25	depth 215:19	desirable 124:25	determination 6:21 12:9 83:25 138:8 138:19 138:21 139:4 139:10
demonstrate 51:15 84:21	deputy 14:5 70:13	despite 29:25 98:18	destroy 88:23 96:25 118:1 118:3
demonstrating 52:14	derive 209:19	destroyed 68:6 99:3	destroyed 141:20 146:21 147:22 148:15 156:19 156:21 212:10
Dendardt 199:5	derived 209:20	destructive 105:6	
Denhardt 110:23 110:23 199:5 274:25 274:25	descend 212:21	detail 195:16	
Deona 145:24 145:24 172:6 172:6 172:11 187:10	describe 79:4	detailed 33:5	
	description 73:14		
	design 85:2 105:23 106:7 106:7 109:24 111:3 119:3 119:6 119:14 146:25 212:7 256:15 256:17 257:11 257:14		

determination	17:18	189:9 211:6	direct 117:11
s 36:1	18:13	dictate 90:19	274:9
determine	20:22 22:1	die 69:19	direction
32:23	22:17	162:19	45:4 274:10
71:14	25:11	162:25 163:1	directly
98:13 129:12	25:23	163:5 163:15	7:7 9:7
138:12 174:2	26:10	189:17	234:9
195:18	27:15	diesel 113:18	director 31:9
195:25	28:13 29:9	121:2	70:13
267:22 271:7	32:25	differ 45:17	disabling
determined	33:11	difference	100:9
6:12 12:11	41:19	168:21	disagree
44:16 149:16	41:20 43:4	different	138:15
149:18 223:8	43:19	45:19 62:4	138:23
252:14	46:19 51:6	71:20	143:16
determining	60:5 195:3	86:21	144:15 148:2
133:12	210:24 218:4	148:6	150:20
detrimental	231:6 233:19	156:1 156:16	268:16 269:5
49:17	241:23 248:5	159:10 236:3	276:2
develop 58:11	248:7 252:12	249:19	disagrees
77:18	253:17	266:16	148:1 240:17
77:18 120:14	deviations	differently	disappointed
122:23	152:18	121:16	88:4
163:13	device 8:17	differs 69:5	disassembly
198:12	9:2 9:17	difficult	105:7
developed	9:18 36:16	140:24 143:3	discharge
14:14	82:6 92:21	144:17	17:13
65:16 88:2	142:19	145:17	21:19 28:4
123:7 220:10	157:10	146:19 150:1	63:11
274:5	173:25	166:17	63:20 70:9
developing	174:20	difficulties	71:4 72:1
45:5 47:16	199:14	9:15 91:4	98:13
123:12	devices 34:21	177:13	102:6
249:13 252:2	36:18	difficulty	110:2 253:25
252:10	36:21	86:14 86:24	254:10 260:4
development	81:10	diligently	266:15
5:8 5:9 5:17	144:3	57:10 197:18	266:25 267:5
11:13 14:8	146:8	228:9	267:8
15:2 17:2	169:4		267:9 267:21
	169:6 181:1		

267:25 269:7	147:19	197:3 197:20	44:16
271:17 272:3	158:13 159:4	disinfection	44:21
272:11	176:6 181:23	194:5 194:18	44:24
275:13	183:2 186:12	display 12:15	46:10
275:18 277:9	191:10 193:8	13:2	46:12
278:23 279:5	193:18	disposable	48:11
279:6 279:12	200:19	99:4	49:19
discharged	201:10 205:4	disposal	51:22
71:25	205:21 208:1	252:3	51:24 52:9
discharging	214:23	disregarding	52:16
63:22	215:16	63:11	52:24
disciplines	215:18 216:8	dissuading	55:24
50:24 51:2	217:8 221:12	76:2	56:23
discussed	222:2	distinct	57:11
43:22	228:5 228:25	13:24	58:14 60:7
78:15	230:2 230:11	32:12	95:10 127:23
120:6	231:17 238:5	211:5 233:25	131:5 136:20
141:1 267:10	239:19 240:9	242:4 248:17	144:20
270:10	242:12 244:1	distinguished	181:17 193:2
discussing	244:22 250:6	17:2	194:6
239:18	251:5 262:18	distribute	194:8
discussion	263:21	56:11	194:9 194:13
8:11 10:12	264:14 265:5	distribution	207:20
16:2 39:8	266:5 278:13	75:11 101:6	208:25 209:9
40:5 44:15	280:10	disturbance	209:16
54:19 57:3	discussions	171:4	209:17
57:14	77:22 180:17	dive 122:23	209:23 210:8
59:11	226:1	122:24	231:9 232:19
60:15 61:5	disease 90:17	186:11	242:17
64:23	91:21	division	260:15
67:14	diseases 54:1	41:10	documentation
92:23	90:15	document 39:1	140:16
92:24	disinfect	40:10 42:4	142:20
95:17 96:2	195:22	43:23	143:14
123:16	disinfectants	43:24 44:2	154:15 160:1
126:19 128:5	195:15 196:4	44:12	257:7
128:18	disinfecting		257:8 257:15
128:21	194:12		257:24
134:11 137:2	195:10	documented	
137:18	195:19 196:1	143:25	
		144:21 154:7	

154:16 160:3	downstream	160:24	drafted 78:21
173:14	106:2	161:18	160:25
173:15	Dr 15:7 15:11	161:23 181:9	161:24
documents	15:19 16:7	181:9 181:12	183:14
5:22 41:18	16:16	181:12	184:13
49:13 89:9	18:15	183:13 184:7	drafts 46:12
148:12	18:15	184:12 186:2	drawing
153:11	18:17	192:17	258:22
235:25	19:13	192:18	drawings
237:24	19:25 24:3	192:21	252:2 252:10
done 9:9	70:14 70:19	192:22 194:3	252:13
149:20 156:4	draft 38:18	196:14	252:23
160:15	38:18	207:11	255:18
168:10	38:21	207:11	255:25
168:15	38:21 40:9	207:14	258:25
173:19	44:2 44:9	207:14	260:10
174:13 176:6	44:12 55:5	211:12	260:16 261:8
188:18	59:23	211:15	drawn 118:5
215:20 216:3	59:24	211:17	Drexel 30:14
226:21 262:4	64:19 66:1	211:24	drive 16:4
271:6 273:11	78:6 78:8	212:14	115:16
door 180:25	94:25 95:1	218:17	274:13
181:7 181:20	95:4 95:4	218:19	driven 110:10
doors 25:18	96:7 97:7	219:16 224:6	driver
136:4	97:9 99:18	230:21	99:15
136:9 136:10	99:23	230:21	99:20
136:24	120:7 127:12	230:24	99:25
176:25 177:2	127:13	230:25 232:3	100:3
177:7	127:16	232:15	100:6 100:20
177:9 181:6	127:16	232:24 234:8	101:2
dots 258:9	130:24	234:10	101:3
doubt 49:12	131:11	234:11	101:7 101:17
Douglass	136:11	234:15	104:22
150:10	136:12	236:23 249:3	104:24 105:1
download	136:15	249:19 254:8	105:4
9:8 9:11	136:15 140:8	254:8 254:11	105:7 105:10
36:11	140:10	254:22 267:9	109:18 112:4
downloading	140:11	270:11	120:5 120:16
9:7	141:12	270:11	123:1
	141:15	273:25	
	159:24	275:20 277:1	
		277:11	

drivers 100:4 111:15 121:2 175:23	41:19 41:20 43:21 49:1 64:19 75:20 96:7 97:23 98:2 98:7 102:5 104:22 109:23 131:11 134:4 138:2 144:4 146:14 150:17 159:24 174:2 174:21 196:13 218:17 219:15 220:3 232:15 234:7 234:11 234:15 242:12 249:11 252:3 254:7 254:8 254:11 260:10 266:4 266:15 267:9	earlier 57:8 144:12 151:7 188:10 237:4	98:17 139:22
drop 76:17 113:23 115:14 116:18		early 82:14 271:8	education 41:6 54:6 58:9
drop-off 123:3		ears 142:24	educational 23:8 55:11 55:23 56:4 56:16
drove 109:21		ease 13:6	educator 31:3
dryer 82:3		easily 71:14 109:17 113:22 114:16 152:12	effect 98:7
dual 114:10		easy 113:12 113:13 167:6 254:18 256:21	effective 106:7 196:22
duct 143:8 160:11		eat 79:7	effectiveness 65:1
ducted 154:4 154:5	dust 28:22 171:5	economic 143:24 165:7	efficacious 85:7
due 40:13 44:15 64:4 68:2 75:20 97:23 111:13 140:22 141:24 161:11 161:13 177:12 183:25 184:2 212:2	dusts 21:5 21:6 21:8 28:20 28:21 28:23 28:23 28:24 28:25	economy 64:1	efficient 106:7
duplicative 49:14	Dwayne 89:16 89:16	edge 16:3	effort 8:24 41:17 41:18 54:8
Durango 39:17 39:17 48:22	dying 189:14	edition 60:7 66:4 78:6 95:9 127:23 136:19 138:1 139:22 159:11 181:16 193:1 207:19 212:13 214:19 231:9 247:14 265:13 270:6 270:10 276:25 277:1 277:2 277:12	efforts 13:18 32:3 62:11
duration 133:25	<hr/> <hr/> E <hr/> <hr/>	editions 78:5	egg 70:2 79:9 79:11 82:20 89:10
during 6:10 7:2 10:5 12:25 15:21 33:5 34:20			egress 20:17 23:7 65:9
			EH 269:12 269:13 277:18 277:19 278:4
			eight 116:7 275:15
			either 10:14 37:2

57:24 88:8	22:8 23:19	endured 46:21	144:9 177:24
115:13 250:4	24:13 27:3	end-user	185:8 209:14
252:12	30:7 34:5	195:20	235:16
256:22	34:12	196:25	239:25 243:6
elected 53:20	34:14	end-users	256:10
electrical	72:22	195:25	258:21
17:25 18:7	72:23 113:21	energy	261:12
19:21 24:8	167:19	82:14 142:14	264:19
24:15 30:6	191:24	148:24 175:6	268:13 272:8
88:11 90:5	192:11	enforceabilit	275:8
97:1 99:4	192:15	y 138:15	engineers
103:24	emeritus	139:12	111:10
104:15	31:24	enforceable	111:18
107:21	Emily 84:16	131:5	engines 30:21
107:24	84:16	252:7	enhanced 15:1
121:14 214:2	emotion 85:1	260:9 260:18	47:4 52:6
electrocution	employees	273:1 273:3	220:11
149:10	234:20	enforcement	enhancing
electronic	enact 82:22	41:5 55:22	52:10
12:19 27:1	enacted 167:3	enforcer	ENS 240:12
electronically	enclosed	57:25	240:17 265:9
6:19 93:15	171:5	enforcers	265:11
187:1	encourage	14:10	ensembles
element 33:10	58:13	engine 113:22	191:22
Elgin 24:22	87:14	121:2	192:13
eligible	88:13 89:8	engineer 81:2	ensue 102:18
6:9 36:15	139:21	149:19	ensure
eliminate	148:18	193:21	14:13 51:8
162:21	159:17 183:6	210:10	52:6 75:13
164:10	187:7 266:2	257:10	146:7
eliminated	encouraged	258:12 261:5	167:4 197:19
90:2	46:19	261:15 262:4	ensures 105:1
eliminating	encourages	269:1 275:7	152:24
79:7	14:9 122:21	engineering	196:19
else 80:14	endeavor 48:8	21:15 100:18	240:20
238:2	189:4	107:2	ensuring 84:1
emergency	endorses	107:3	172:18 197:1
15:13 16:8	42:22	113:5 133:22	249:7

enter 90:20	71:3 71:12	201:17	210:10
entering 6:18 90:22 91:4	equipment 23:5 81:6 81:20 192:12	201:17 212:8 213:4 234:21 267:5	evening 67:21
Enterprises 217:13 219:24 220:6 223:15 224:12 226:24 227:16	195:22 197:4 197:18 220:10 220:15	established 6:25 11:10 43:15 45:1 45:11 55:24 66:1 69:1 77:3 102:20 104:19 110:5	event 8:14 8:22 11:19 15:19 34:5 91:16 97:23 98:2 98:3 98:8 102:5 144:4 146:14 150:1
entertain 12:5	equivalent 65:20 83:19 161:21	establishes 45:12	events 13:13 16:1
entertained 6:13	173:18 184:10 195:13 212:22	establishing 43:1	eventually 169:7
entire 8:10 33:14 35:20 62:24 90:24 96:21 166:18 277:2 280:17	error 221:12 221:23 241:6	establishment 52:1	everybody 37:10 37:21 37:25 88:13 111:2 127:4 241:4
entities 274:7	ERRS 6:7 192:18	estimated 76:18	everybody's 36:9
entity 56:3	escape 212:22	et 109:16	everyone 87:14 89:1 151:15 154:1 165:25 169:4 221:13 224:4 225:14 228:11 228:21 238:2 253:2
environment 81:8 88:24 163:7 163:21 170:24 189:20 189:21	especially 88:14 237:15 255:19 274:18	European 212:25 214:9	
environmental 72:3	essential 33:10 141:9 172:15 196:19 198:14	 euthanization 64:7	
EPA 63:10 69:1 70:8 70:15 72:9 196:3	essentially 105:23 122:23 277:24	 euthanized 64:9	
EPA's 70:5 70:13 70:24 71:2	establish 5:21 45:14 47:2	evacuate 212:4 212:19	
		evacuation 34:14 34:15	
		evaluate 102:24 118:12 133:25 150:25 151:19	
		evaluation	

83:14 143:15	140:11	12:8 128:22	252:25
examine 65:5	147:18 154:4	explored	extracting
example	154:5	104:4	254:24
98:9 116:3	156:3	explosion	extraneous
116:5	160:5 196:9	21:2 21:4	40:13
165:8 165:12	exists 151:21	29:5 29:15	extreme
272:5	212:12	50:7 52:22	143:20
examples	exit 34:19	53:7	eyes 142:24
173:22	exits 34:16	expose 164:21	
273:10	expand 15:22	exposed	F
exceed	expanding	117:25	fabrication
65:15 109:17	215:23	exposes 164:7	127:18
117:16	expect	exposure	131:25
exceeding	97:19	81:19	face 155:10
73:5	112:1 259:5	134:4 195:18	155:10
excellence	expectations	196:11	197:21
51:15	47:8	196:17 212:1	facets 14:9
excellent	expected	exposures	facilitate
89:9	76:14 101:15	195:14	51:22
except 72:19	102:7	express 206:2	facilitating
exceptionally	expense 76:20	extend 33:13	51:6
101:4	expenses	extent 262:14	facilities
execution	76:11	extenuating	19:5 19:7
47:5	76:18	84:1	19:9 22:24
exemplary	76:19	extinguish	23:12
16:24	76:22 77:1	149:11	23:21
exempt 86:9	experience	extinguishers	23:22
86:9 140:12	9:15 56:6	165:9	26:20 27:2
exemption	257:19	extinguishes	27:5 27:10
72:25 73:1	experienced	64:3	27:23
exhibit 134:2	85:16	extra	29:15
exist 167:5	expertise	149:25 272:2	29:17 30:6
232:24	14:13 152:23	272:5 274:18	59:22 60:1
236:21	experts	274:22	60:13
existing 76:3	121:13	extract	62:18
118:10 120:5	195:17	259:18	64:22
120:16	explain	extracted	64:25
			65:14 66:3
			66:4 66:6

67:9 73:5	factory	families	favor 10:18
73:16	79:3 79:14	74:15	46:10
73:19	factually	family 79:6	53:10
73:20	150:23	famous 130:9	64:12 70:3
82:13	fail 105:3	fantastic	72:10
85:15 87:1	147:7	78:3	74:12
108:8 108:12	169:7	farm 67:18	74:19
127:12	169:9 169:15	71:19	77:12 81:3
127:18	173:2	71:23	93:3 94:8
127:21	failed 78:7	74:10	96:5 99:7
139:17 170:6	94:10 97:7	74:13	100:19 104:7
170:9 170:14	99:21 200:17	74:14	105:18
170:18	failing	74:15	107:11 115:7
171:13	48:9 173:13	74:24 75:8	118:20
facility	fails 7:19	76:13	122:16
59:17 73:8	8:23 12:22	76:14	122:20
73:9 75:23	35:11 59:9	88:15	124:15 125:1
86:11 139:13	146:13 154:3	88:24 89:23	125:2 125:18
163:25 171:7	173:22 174:8	farmer	125:23
174:11	217:3	84:18	126:16
210:10	241:8 241:12	89:17 91:24	133:23 134:7
fact 62:13	failure 101:5	farmers 74:18	134:25 135:7
69:14	105:4	76:3 76:3	150:11
88:18	160:2 172:25	76:9 76:24	157:18 158:9
97:21 122:22	173:14	77:4 77:25	173:11 178:1
133:14	failures	78:23 90:16	179:19 180:2
133:15	173:15	farms 63:24	180:14 186:9
186:17 219:9	faith 88:14	74:25 76:6	190:8 190:10
259:19 260:9	fall 6:7	76:7 78:7	190:15
267:10 278:5	32:18 33:3	79:3 79:5	190:25 191:6
278:20 279:8	38:19 54:7	79:7 79:11	221:14
factor	falls 70:23	79:14	222:22
97:14 101:16	false	79:16	232:14
107:3 116:15	175:11	79:21	236:17
117:18	176:12	81:19	237:14 243:7
121:21	familiar 5:19	82:11	243:20
factors	familiarize	85:20	251:24
71:9 81:21	5:15	87:23 90:12	255:15
101:14		faults 105:6	256:11
152:25			258:16
			259:12
			270:14 277:4

277:5 277:6	83:23	27:11 28:9	38:15
favorite	field 47:5	31:8 31:20	38:16
166:16	49:18	68:9 82:16	38:22 39:2
fear 46:22	81:12	274:1	39:6 39:16
48:8	102:3 113:14	financial	39:17
feasibility	116:4 121:13	146:17	40:12 41:4
62:10 81:23	123:13	149:24	41:10
features	142:18	finding 127:3	41:12
25:17 274:15	142:22 149:3	151:12	42:12 43:2
February	174:5 175:13	fine 176:17	43:6 43:14
50:18 76:13	175:14 176:3	finished	43:19
federal	Fifth 63:23	274:1	44:25 45:9
58:2 150:24	fight	fire 14:11	45:13
Federation	114:17 163:8	18:4 18:9	45:17
74:11 74:13	file 5:4	18:21	46:15 47:2
feed 75:22	47:10	18:24 19:3	47:19
feedback	filed 7:15	19:7 19:12	47:24 48:4
150:14	7:20 35:8	19:15	48:15
feeding	35:13	19:17	48:21
69:4 70:6	filled 80:14	19:20	48:22
70:17 71:6	filling	20:13	49:10
115:15	20:1 212:1	21:15 22:5	49:18 50:7
feel 189:16	filtration	22:10 23:5	50:23 52:2
194:7 271:11	163:24	23:12	52:4 52:5
feeling 46:23	final 6:2	23:24	52:10
feet 86:7	12:2 36:1	24:22 25:1	52:21 53:6
116:9 116:10	57:6 58:6	25:3 25:17	53:23 54:4
116:20	93:6	25:18	54:25 55:7
116:21	110:12	26:14	55:12
116:22 155:9	134:15 205:4	26:18	55:15
208:18	216:11 222:6	26:19	55:18
211:13	234:24 238:8	26:23 27:7	55:21
211:21	244:4 262:23	27:19	55:25 56:7
212:12	278:16	27:21	56:8 57:19
212:16 213:2	finally	27:22 28:1	57:21 58:3
213:7 269:23	18:8 19:24	29:16 31:3	58:8 58:15
felt 57:18	20:18	31:12	59:16
	23:23 24:15	31:16	59:25
		31:18 38:5	60:12
		38:11	62:12 64:3
			64:21 67:7
			67:16

67:17	101:16	129:15	220:7 221:10
67:25	101:24 102:1	129:16	221:20
67:25 68:3	102:5 102:10	132:18	224:22
68:10	103:7 103:13	132:19	225:11 228:8
68:18	103:15	133:11 134:2	228:18
69:16	103:16	136:4	237:13
71:13	103:17 105:4	136:9 136:10	237:21
71:22	105:6 105:10	136:24	239:23
72:16	105:17	146:14	240:12 243:5
72:19 73:8	105:21 106:2	148:10	247:10
73:9 73:21	106:2 106:11	149:11	248:12
73:24 75:4	106:12 107:8	156:15 165:9	248:19
75:7 79:18	107:8	165:10	249:15 251:9
83:19	108:9 108:11	170:12	251:23 252:6
84:21 85:7	108:14	171:13	252:24 253:3
85:16 86:6	109:14	171:25	254:13
86:16 88:7	110:11	172:12	254:16
88:20	110:24 111:3	172:15	255:14
88:23	111:16	175:20	255:16
89:17 90:1	111:24	176:12	255:24
91:24 92:5	113:13	176:25 177:5	256:15
94:16	113:16	177:7	257:10 260:2
94:23	113:24	177:8 178:23	261:2 261:17
94:24 95:6	113:24	178:24 181:6	262:1 264:18
95:11	114:10	182:23	265:8 267:20
95:15	114:17 115:6	189:11	267:21 268:1
95:22 96:4	116:14 117:7	192:11	268:11
96:8 96:12	117:19	193:22	270:19 271:3
96:14	117:21 118:1	197:21	272:17 273:6
96:25	118:5	200:23	273:13 275:1
97:19	118:6 118:19	206:20 207:9	277:25 278:7
97:22 98:2	121:1	207:15	278:25
98:3 98:7	121:2 121:10	207:21	firefighter
98:8 98:12	121:14	207:24 209:3	89:20
99:15	121:21 122:2	209:14 210:6	89:20 121:17
99:20	122:18	210:23 211:6	121:19
99:25	122:22	213:18 214:7	Firefighters
100:4	123:12	215:8 215:11	197:14
100:6	124:15 129:5	218:3 218:11	firefighting
100:7	129:6	219:5 219:12	22:12
100:9 100:17	129:7 129:12	220:1 220:5	30:15 191:23
101:2 101:12	129:14		

192:14	140:11	231:20 232:3	222:19
fires 66:3	140:14	234:8 234:11	226:13
67:4 67:8	140:17	236:23	229:20
67:12 69:9	141:11	249:18	238:25
83:13	141:15 144:2	251:13	244:17
84:10	146:5	251:13 254:5	250:23 255:3
85:11	146:5 146:11	254:5	263:15 280:1
85:14	147:4 151:23	254:7 254:11	fix 145:19
85:19	157:24	262:20	fixed 23:14
89:23 91:22	158:20	262:20 263:8	29:3
firesetter	158:21	263:9 270:10	269:24 270:1
31:4 31:5	158:24	273:25 274:6	flame 130:10
Firetech	158:24	276:24	flash 34:11
133:22	159:17	fit 89:12	flashing 34:7
firm 123:10	160:24	Fitters 72:14	flattest
275:8	160:25	80:4	106:6
first 9:23	161:15	FIU 47:7	flexibility
14:23 17:6	161:18 165:4	FIUs 49:9	83:17 195:25
33:18	169:23	52:18	flexible
36:23 38:3	172:23 178:8	five 7:20	248:23
38:18	179:25	35:13 37:7	248:25 249:7
38:21 39:9	179:25 181:9	37:20	flight 264:13
40:9 44:2	181:12 182:3	39:11	flipped
44:9 46:11	182:3	47:18	231:19
46:15 55:4	182:8 183:13	57:11 59:5	flock 90:21
59:23 63:9	183:15 184:4	62:4 67:3	floor 10:12
64:19 78:5	184:7	85:15	12:11
81:16 83:6	186:2 190:22	86:12 93:1	12:24
94:25 95:4	190:22	94:5	39:25
97:6 97:9	192:17	114:13	42:22
99:18	192:21 194:3	125:22	58:21 66:9
120:7 121:16	196:14	126:13 135:4	91:15 93:7
122:6 127:12	207:11	157:16 158:7	117:9
127:15	207:14	161:16 162:5	126:5 128:13
130:24	211:12	179:17	134:22
136:11	211:17	180:13 184:6	137:11 157:5
136:15 137:8	218:19	190:13 191:4	157:22
137:9 137:13	219:15	195:24	158:23 159:9
137:13 140:8	223:10	199:20	
140:10	223:16 227:7	200:11 217:1	
	230:20		
	230:24		

162:9 179:23	111:4	202:11	115:22
182:6	111:8 111:20	205:12	118:12
185:2 190:20	113:8	folks 74:1	forces 122:22
193:13 199:9	114:5 114:19	77:25	forcing 88:16
200:2 213:10	116:7 116:24	80:17	forecasted
216:18	118:22 123:6	80:22	76:17
222:11 223:6	123:11	83:16	foremost
226:2 229:14	124:21	123:5 151:19	122:6
235:3	174:17	170:13	forensic
235:5 237:14	271:25	171:12	40:12 45:8
238:17 240:4	flowing	follow-up	46:7 46:14
244:9 249:25	111:22	6:11 10:7	46:17 48:5
250:14	flows 119:13	12:5 12:7	50:16
251:25	Floyd 15:5	12:10 220:20	50:18
252:18	15:7 15:11	223:1	50:21
254:12 255:6	15:19 16:7	223:4	50:24 51:2
255:15 256:5	16:16	223:6	51:6 51:8
257:21	Fluid	223:7 223:11	51:12
257:22 263:7	122:15	223:16	forest 27:25
264:23 268:5	122:17	223:23 224:4	forget 10:23
268:14	FM 17:10	224:12 225:2	form 131:3
279:18	102:12 120:2	225:13	250:19
floors 132:20	foam 110:10	225:21 226:2	format 44:4
Florida	foam-water	226:11	44:6 273:25
21:3 27:20	29:4	226:25	formatted
30:4	focus 62:11	228:12	44:22
103:12	focused 77:19	228:20	formed
103:14	147:19	228:25 229:8	50:16 120:13
flow 75:4	Foisel 191:16	229:14 230:4	Formica 77:10
81:21	191:19 192:9	food 61:10	77:11
99:17	193:7 193:13	61:21 64:1	forth 56:15
99:21	193:17	79:5 79:7	56:19 130:11
100:1	193:24	82:18	196:7
100:5 100:23	194:19 197:5	foot 68:12	245:8 261:12
100:24 101:2	198:17	86:7	forward
101:4	198:20 199:3	footage 86:22	43:5 48:14
102:3	199:8 199:12	force 87:21	49:16 50:22
102:7 102:15	201:1 201:21	89:5 89:21	
104:5 104:25	201:24 202:3	110:3 115:12	
107:7		115:15	
110:6 110:13			

57:16	186:23 187:6	28:21 31:18	GBH 128:8
57:20 159:12	fresh 82:5	funding 40:16	132:9 135:13
178:18 233:5	front 77:3	53:18	153:5
237:5 237:15	258:14	funds 56:11	179:4 259:15
238:1 260:6	fulfill 40:17	fungi 163:6	geek 129:5
forwarded 7:6	full 82:1	furnace 130:3	geeks 129:6
7:12	117:17	Furthermore	general
foundation	178:15	70:19	14:5 20:6
97:25	178:15 192:4	71:24 146:23	61:14
209:4	274:4	furthest	74:14 101:12
214:8 215:12	Fuller	172:18	108:12
271:4	120:1 120:2	future	150:10 186:9
273:7 276:15	full-scale	13:13 76:2	262:9 273:24
foundation's	98:12	98:17 159:18	generally
67:8 274:6	fully 40:14	174:25	81:17 113:14
fourth	81:14		generate 75:4
63:20 76:21	87:18 144:20	G	171:5
FPRF 211:21	154:4	Gallagher	generator
211:23	154:5 175:23	14:5 60:21	111:18
211:24	function	61:8 61:9	112:20
Frable 20:3	146:8 172:19	gallon 111:21	113:20
20:5	210:6	111:21	113:20
fragile	functional	111:21 116:5	113:21
170:17	86:14	116:21	113:23
framework	functioning	116:22	Geneva 20:6
42:25 47:1	166:19	gallons	gentleman
47:18	functions	111:20	88:1 104:2
frankly	174:21	gamble 147:6	gentlemen
209:11	fund 53:20	garage 268:23	13:22 38:9
free 75:13	fundamental	270:2	38:14
151:14	23:22	276:6 278:2	59:21
189:16	fundamentals	garages 27:23	94:22 127:10
frequency	19:1 19:5	269:18	136:8
167:18	19:12	Gary 115:6	181:5 192:10
218:16 219:3	20:12	115:6 115:9	207:7 230:17
219:11	20:16 23:6	gases 28:25	geographic
219:14	23:24	gasses 21:9	86:2
frequently			Georgia 133:8

Gess 81:1 81:2	109:8 109:9	238:21	215:23 219:9
gets 151:8	gotta 141:8	244:13	219:13
getting	225:18	247:16	221:22 228:8
120:12	269:22	256:19	228:10 259:9
186:17	govern 5:9	260:20	267:13 272:2
243:16	governing 5:7	262:16	272:5
256:21	11:5 32:25	273:18	276:7 279:1
given 16:23	60:4 231:6	278:10	grouped 60:16
98:25 102:23	government	Greg 108:7	93:19 158:13
160:17	14:10 107:19	108:7 109:3	grow 163:14
188:11 220:3	governors	Grill	164:4
249:7	42:12	233:23	growing 19:8
gives 54:14	GPM 114:10	233:24	grown 164:20
73:14 112:13	graciously	233:25 242:2	growth 48:4
116:2 275:9	13:19	242:3 242:4	Guaricci
giving 212:18	Granger 66:20	ground	20:23 21:1
212:21 269:6	66:20 83:4	105:6 117:25	21:2
glare 205:7	83:4	166:2	guess 221:21
215:6	grant 152:17	group 6:7	guest 16:12
global	granted	16:12	guidance
17:10	8:13 166:14	41:12 46:7	140:18
28:17 53:6	gratitude	46:15	156:10
121:10	33:14	60:18	195:23 196:2
122:17	great 78:2	60:22 62:8	220:22 269:5
goal 78:22	80:12	65:3 65:6	269:17 270:7
79:13	89:11	66:1 78:22	270:8 276:10
79:14	104:3 111:16	79:8 93:20	guide 5:15
79:17 115:23	154:20	102:11	23:14
196:21	164:15 173:1	102:20	39:21
goals 51:4	176:11 238:1	102:23 104:3	39:23 42:4
gone 14:17	greater 52:11	104:19	44:4 44:13
107:7 168:6	52:20	106:25	52:25 55:2
gonna 88:15	greatly 86:1	120:13	57:13 209:14
88:19	green 11:1	120:19 131:3	guides 123:25
88:21	180:3	131:8 131:12	
112:9 112:10	191:1 216:21	147:16	<hr/>
Gordon	222:15	180:12	H
		191:15	<hr/>
		192:18	half 13:7
		201:17 206:1	206:6 246:5
		215:18	

hall 95:21	163:16	108:22	156:6
95:22 96:2	246:14 247:5	210:11 259:9	170:4
96:3 96:4	247:7	261:11	170:6 170:18
99:8	happens 112:8	266:12	174:10 176:6
105:16	117:24	266:22 267:4	177:25 185:9
105:17	happily 20:25	267:13	186:16
221:13	142:23	267:22 272:2	186:19
225:14	hard 88:9	272:5	235:17
228:21 251:7	harm 75:14	272:7 274:17	healthcare
251:9 251:20	91:14	274:18	19:5 19:7
251:21	Harvesting	274:22 276:7	22:23
251:23 253:6	53:6	279:1 279:4	23:21
270:18	Havenstray	hazardous	23:22 27:2
270:19 273:5	248:15	26:4 31:22	30:5
hand 77:20	248:16	hazards 90:13	139:13
handle 111:11	haven't 90:25	171:13	139:17
111:25	108:22 215:5	171:14	healthy 163:8
handled 60:18	having 24:2	197:21	hear 35:25
252:21	46:21 54:6	head 88:20	72:6 157:9
handling 21:8	83:18	88:21 275:16	246:10
26:5 28:24	83:24 105:20	heading	heard 77:22
hands 152:20	108:16	161:25	103:11 111:1
hanging 27:21	114:21	184:14	120:4 155:14
28:5 31:16	124:19	heads 275:16	165:4 170:23
246:19	124:24	health 22:9	171:21 173:8
246:20	138:22 139:1	27:2 53:22	173:13
246:24	139:3 146:20	75:22 81:7	173:22
247:10	149:19 156:5	84:20 139:11	173:24 175:8
248:11	156:16 169:2	144:10	175:17
248:18	176:11	144:12	186:16 214:6
249:14	195:21	144:23	248:7 267:7
happen 72:2	215:11	144:24	hearing 180:7
115:17 116:4	215:13	144:25	244:3 250:8
129:23 164:9	234:21	144:25	hearts 62:1
175:18 176:5	237:24	150:17	heck 276:12
178:7	247:14	150:18	height 208:19
happened	277:25	150:22 151:7	209:6
103:10	hay 89:25	151:17 155:5	210:1 211:13
103:18	hazard 108:13	155:6 155:7	211:25

212:11	276:20	249:10	115:11
212:20 213:4	high 51:7	holding	115:13
214:18	52:14 68:7	272:23	115:24
heights	76:22	Holland	115:25
208:18 209:2	91:21	104:13	116:15
262:10	209:2 211:22	104:14	116:25
held 5:2	212:2 212:24	213:25 214:1	117:14 118:5
98:19 99:24	214:9 259:10	homes 73:23	horsepowers
Helicopter	276:6	82:2 82:7	103:20
27:5	highlight	homework	114:22
hell 112:8	176:24	82:22	horses 86:9
he'll 206:4	highlights	honest 272:19	86:10
Hello 125:7	195:9	honor 32:13	hose 88:23
165:23	Hill 30:14	hope 21:16	hospital
187:19	hinder 102:18	48:13	150:10 161:7
help 91:13	Hirschler	Hopkins	162:13
187:13	128:8	118:18	162:20
246:15	128:8 128:19	118:19 215:3	163:10
helped 67:7	128:24 132:8	215:8	163:17
helpful	132:9 135:13	215:8 260:24	163:22
119:12	135:13 153:5	261:2 261:2	164:19
helping 15:25	153:5	horizontal	165:12
16:4 124:23	179:4	130:10	166:18
helps 166:11	179:4 259:15	horn 34:7	183:21 186:9
Hendry 15:8	259:15	horns 34:10	188:25 189:5
15:9	history 98:25	horse 84:17	hospital-
hens 67:17	169:1	86:5	acquired
68:4	hit 66:14	185:11	163:19
herd 90:21	76:22	185:20	hospitals
he's 27:9	126:7	187:12	73:23
27:11	190:9 260:20	horsepower	155:8 156:12
Hexmodal	262:16	96:8 97:4	169:22 170:7
125:8	278:10	97:15 105:24	170:15
Hey 145:16	hobby 85:20	106:16	189:13
Hi 46:5 87:10	hold 61:17	109:21	Hospital's
113:4 193:10	83:9 98:25	112:17	162:17
	117:19 214:4	112:19	hostile 15:18
	246:11	114:14	hour 163:23
	246:15 249:4		206:6

house 68:22 169:6	HVAC 154:4 154:5	6:9	109:9 109:11
houses 70:22 72:7 90:20	hydrants 68:2	IDS 215:14	113:5
housing 59:17 59:22 59:25 61:19 62:18 66:6 67:3 67:9 72:17 81:11 85:8 85:25	Hydraulic 101:24 102:10 109:24 121:5 123:20	ignition 130:8	115:6 115:7 117:6 119:21
housing's 60:13	<hr/> I <hr/>	ignore 173:1	121:15
Hugo 239:22 239:23 240:11 240:11 241:11 264:17 264:17 265:6 265:7 265:7	Ian 103:12	Ike 115:6 115:6 115:9	121:16 122:15 122:15
human 90:18	I'd 81:16 108:19 154:1 193:11 206:2 218:5 245:16 275:4	ikra 172:13	122:18
humans 163:8	idea 118:22 165:11 246:12 259:3	I'll 120:3 160:19 179:21 275:10	122:20 128:24 128:25
humble 276:1	identifiable 128:11 128:14 134:12 134:22	Illinois 20:7 24:23 67:19	128:25 129:5 133:7 133:22
hundred 68:23	identified 8:16 9:18 44:23 50:19 50:23 145:8 145:16 238:11 252:18	I'm 33:21 33:21 38:10 38:12 42:11 42:18 46:6 46:7 46:9 46:13 46:24 50:8 53:7 54:25 55:1 55:6 55:10 60:21 61:9 66:14 66:18 66:23 70:2 70:3 74:3 77:10 77:12 81:3 84:17 87:10 87:18 88:3 100:19 101:23 103:8 108:8	133:23 137:21 142:11 146:1 148:25 150:18 154:12 155:5 162:14 164:12 173:10 173:10 180:7 182:10 182:20 185:6 191:14 193:20 197:13 197:15 198:23 200:24 201:13 206:6 208:5
hundreds 68:15	identifies 44:21		211:4
hurdle 77:3	identify 10:20 150:14 150:19 167:19		211:8 215:3 215:9
Hurricane 103:12	Identifying		218:9 223:11 223:14 224:11
hurt 102:18			
husbandry 85:25			
Husted 66:5			

224:23	220:17	189:12	144:18
225:19	impacted	219:17 258:2	145:17
226:23	74:20 74:25	261:16 269:4	146:24
227:15		imposes	147:18 148:8
231:23 232:5	impactful	220:17	148:10
232:11	63:16	impossible	151:15 154:9
232:14	impacting	139:12	154:13
233:25 235:9	187:2	139:13	154:19
236:14 237:2	impacts 62:16	144:23	154:22
237:12	64:24	150:21	154:24
239:24 242:4	impartial	151:17	155:11
243:6 245:15	51:18	impractical	156:14
248:16	impediments	195:15	167:20
253:23	140:23	impression	167:23
255:13 257:3	imperative	188:11	inadequate
257:25	138:7 141:19	improperly	63:23 74:24
258:16	implementatio	252:9	inappropriate
259:17 262:1	n 197:2	improve 40:11	72:8 267:3
262:3	implementatio	52:3 53:19	inappropriate
262:4 268:11	ns 61:24	improvement	ly 271:12
270:12	implemented	51:16	inaudible
272:23	40:22 87:2	improvements	229:9
272:23 275:1	implementing	13:13 45:8	incapable
278:8	47:6 48:6	47:15	166:22
IMAG 12:24	implication	improves	incentive
imagine 69:12	249:5	214:12	84:19 146:18
166:17	implied 241:8	improving	149:24
176:14	imply 274:16	14:11 47:20	incentives
immediate	importance	inaccessibili	143:24
120:18	5:19 61:13	ty 141:25	inception
immediately	85:23 90:8	inaccessible	15:16
166:15	important 8:1	138:8 140:12	inch 116:7
immunocomprom	16:5 34:24	140:19	incidence
ised 171:1	69:7 76:5	140:22 141:7	143:22
immunosuppres	79:20	141:16	incidences
sed 163:11	84:25 105:13	141:17	90:6
impact 43:5	143:17 172:9	141:21	incident
61:23	176:20	141:24 142:2	
161:8 183:22			

15:24	118:4	e 99:5	231:25
143:2 143:10	inconsistent	111:15	232:13
154:12 160:2	209:18	111:15	236:16 239:9
174:2	209:20	indicate 6:15	243:15
incidents	inconvenience	11:1 11:3	inefficient
15:21	141:25	146:24	105:23
incinerators	inconvenient	175:15	infamous
26:5	174:9	175:15	130:9
inclined	incorporate	indicated	infeasible
186:20	212:8	70:19	83:22 140:24
include 15:23	incorporated	79:12	infected
36:2 65:11	22:21	98:15 141:18	163:17
105:5 166:8	24:22	150:21 212:6	infection
included	26:14	241:11	162:20 163:3
131:23	27:19	indication	163:19
211:15	28:17 30:4	258:10	170:14
214:18 272:9	133:23	indications	171:14 172:1
includes	196:13	175:11	174:11
102:12	increase	individual	infectious
196:10	52:17	55:17 149:17	172:9 187:14
251:25	76:19 106:17	212:18	infinity
including	106:17	individuals	111:8
5:10 6:7	112:20	17:5	inflation
8:10 35:21	167:18	industrial	76:12
67:12 68:6	186:25	81:10	information
71:11	211:25 212:4	industries	10:24 13:6
119:9	increased	145:3	15:24 31:4
137:8 157:23	103:21	145:4 151:8	31:4 39:1
165:6	106:18	industry 14:9	41:23 60:8
182:3	108:13	22:21	95:10 127:24
182:7 190:21	212:20	42:25 49:5	131:23
236:22 254:4	212:21 273:8	61:11	136:20 180:7
263:8 274:15	increases	62:23	181:17 193:2
inclusion	76:20	64:11 91:8	194:4
196:17	increasing	122:5	198:4
income 76:13	76:25 109:22	122:7 144:24	198:7 198:11
incomes 76:10	incredible	145:1	207:20
incoming	170:13	145:2 166:21	231:10 233:1
	indestructibl	173:18	249:5

252:1 252:11	218:20	167:9	161:21
256:2 256:12	inquire	168:9 169:19	inspectors
259:7 260:15	219:10	178:9 178:10	254:18
261:18	inserted	178:16 183:5	install 106:8
262:11	177:16	183:15	178:14
262:14	241:11	183:17	275:10
266:23 268:1	inside 140:21	183:19	installation
274:7 278:25	170:6 170:14	183:20	17:12
279:8	170:15	183:24	21:20 28:7
informational	170:17	184:10	70:21
153:14	inspect	184:10	74:21
informative	147:23 148:8	184:14	94:15 116:11
153:11	148:10 164:7	184:16	178:6
informed 16:3	167:21	185:25	178:6
152:22	167:22	186:21	178:8 188:13
infrastructur	195:22	187:23 188:1	230:9 230:19
e 75:9	inspected	188:2	231:1 231:11
108:16	101:13 141:7	188:3	231:15
108:24	146:4	188:4 188:13	233:18 234:2
inhalation	inspecting	240:15	241:22 242:6
64:5	177:15	240:21	246:18 248:4
inherent	inspection	241:13	249:1
119:14	19:9 20:9	242:11	253:4 253:16
initial 43:21	21:22 41:4	242:13 243:9	258:11 266:9
49:2 97:3	107:22	243:14	266:14
168:9 208:21	107:24	243:18 257:9	272:11
initially	138:20	inspections	275:12
188:13	138:24	19:11	275:22 276:2
188:17 277:3	140:23 145:5	23:16	277:4 279:12
initiating	148:2 150:17	46:17 91:2	installations
211:6	159:14	140:13 141:5	112:15 124:2
initiative	159:19	145:2 146:18	162:3 184:16
54:9	159:21 161:1	151:8	installed
input 44:1	161:3	161:9 166:25	101:13
44:6 64:20	161:5	167:10	106:11
97:9 98:22	161:6 161:10	167:15	108:14
131:2	161:21	172:17 174:9	114:21 146:5
138:3 211:19	161:25 162:3	183:23	155:25
	164:13	185:22	267:12
	164:14 167:3	inspection's	267:14

271:18	34:23	interfere	38:5 38:11
installing	integrated	81:21	38:16
18:9 86:14	19:18	internal	38:17
178:17	20:11	30:21	38:22 39:2
178:22	23:20	internally	39:6 40:12
178:23	24:24 26:21	209:23	41:5 41:13
instance	integrity	international	43:2 43:6
70:16 216:2	134:2	58:4 58:6	43:15
instances	150:3	128:9	43:19
68:14 152:11	153:1 196:15	131:9	44:25 45:9
instead 97:16	208:24	132:9 135:14	45:13
106:14 160:4	intended	152:9	45:17
Institute	70:10	153:6 158:18	46:15 47:3
66:21	107:4 133:25	179:5 259:16	47:19
66:24 83:5	144:4	interpretatio	48:16
101:24	146:9 151:14	n 101:1	49:18
102:10	177:17	101:11	49:22 50:7
109:24 121:5	257:16	106:19	50:23 52:2
123:20	intensive	interpretatio	52:4 52:5
142:14	87:6	ns 269:25	52:11
148:25 175:7	intent 6:23	interpreted	52:22 53:7
instructions	32:22	101:3 106:13	54:5 55:7
34:8 34:18	51:20	intervened	55:12
194:5 194:10	51:21 261:5	266:17	55:16
195:16	intention	introduce	55:19 56:1
197:20	6:16	14:3 33:17	57:19 58:8
197:23 198:6	intentions	90:13 189:20	58:16 71:9
198:15	84:6	introduced	investigation
insufficient	interact	33:21	s 46:7 46:14
98:20	149:8	introducing	47:25 48:5
insulation	interest	63:18	49:10
117:23	33:16	90:25 91:1	51:18
insurance	57:19 120:12	invaluable	52:15 56:7
61:9 61:15	280:21	33:12	56:22 57:21
62:23 64:8	interested	invest 186:18	investigative
64:11	14:10	investigated	51:11 52:17
87:22 91:10	interests	89:23	investigator
integral	74:17 196:25	investigation	55:16
8:1 16:10			55:17 56:9
			89:22
			investigators

47:5 53:23	231:14	153:1	26:13
55:13 56:5	issue 8:22	163:2	27:13
56:17	53:24	163:3	33:18
56:20 56:22	57:15 62:9	195:2 210:22	33:20
investigator'	67:4 67:7	218:2	33:21 39:7
s 49:21	67:10	223:2 233:16	39:24 40:4
Investigators	69:14	238:12	42:6 42:16
42:13 58:5	80:19 83:8	241:20 248:2	42:20 43:8
investing	89:5 98:6	253:14	43:12
186:24	98:23	255:24 263:1	45:22
invite 13:14	98:25	266:10	48:18
involve 49:18	103:9	issuing 36:1	48:24 50:1
involved 49:9	104:3 104:20	item 87:24	50:9 50:12
54:5 68:16	109:19	137:21	53:1 53:9
69:6 134:4	111:19	137:23	54:18 57:2
138:8 141:20	120:14	158:17	58:18
147:20 148:3	132:11 134:5	176:15 183:8	60:14
215:15 261:5	138:17	191:20	60:25 61:3
involvement	138:17	206:19 277:8	64:15 66:8
152:16	139:12	items	69:23
involving	142:17	146:19	72:11 74:6
58:2 67:16	143:21	175:23	77:7 79:24
68:10	146:24 156:1	177:18	80:24 83:1
iOS 9:2	159:10	201:18	84:13 87:8
Island 17:10	159:11	252:17	89:13 92:2
isn't 78:22	182:22 183:3	It'll 86:24	92:8 92:11
78:25	211:18	I've 53:25	93:9 93:11
79:19 119:12	235:19 236:2	62:21 84:8	93:17
279:9	249:10	88:5 89:22	93:24
ISO 46:16	256:15	119:1	95:16
issuance	256:15 259:8	124:1	95:24 96:1
7:9 8:8 8:10	266:16	129:7 129:24	99:8
35:5 35:20	266:18	149:1 155:14	100:10
39:5 60:11	issued	178:13	101:20 103:2
95:14	44:17 79:9	225:18 245:4	104:10
128:2 136:23	issues	257:19 273:1	105:14
181:19 193:5	48:25 98:4		107:13 108:4
207:23	102:24		109:1
	105:20		109:6 110:20
	113:25		112:25 115:2
	118:12 145:9		115:8
			117:2 118:14

119:24	184:25	28:15	193:25
120:23 121:7	185:15 186:5	28:16 29:7	198:19
122:11	187:8 187:17	jeopardize	198:22
123:15	188:6 188:23	147:4	198:22 199:5
123:22	189:24 190:4	jeopardizing	199:5
124:10 125:3	191:19 206:5	146:16	205:9
125:11	Jake 60:20	jeopardy	205:9
125:15 127:2	60:21 61:6	151:20	208:4
128:4 128:12	61:7 61:7	Jeremy 148:23	208:4 208:10
128:17	Jakubowski	148:24 175:5	208:16
128:21	108:7	175:6 200:22	274:25
130:18 132:1	108:7 109:3	200:22	274:25
133:3 133:18	James 13:21	Jim 32:10	Johnson 121:9
134:10	13:24	144:8	121:9
134:18	16:15	144:9 177:23	Johnston
135:16 137:1	17:16	177:24 185:7	17:10
137:10	19:25	185:8 201:12	join 14:19
137:17 140:5	20:20	201:12	16:15 17:7
142:6	21:10	201:23 202:2	17:20
144:6 145:21	21:24	202:10	18:16 20:4
147:11	22:15 24:1	235:15	21:13 22:3
148:20 150:7	24:17 25:9	235:16 256:9	22:19 24:5
152:4	25:21 26:8	256:9	24:20
153:4 153:20	27:13	job 47:9 78:3	25:13
155:1 156:23	28:11 29:7	80:12 124:22	25:25
157:4 158:22	29:20 32:1	143:21	26:12
159:3 160:20	Jeff 191:15	156:20	27:17
162:7 164:24	191:19	jobs 54:3	28:15
165:20	206:17	Joe 165:1	29:11
167:25 170:1	239:22	165:1 185:17	79:22 84:5
172:3 172:10	239:23	185:17	Jonas
173:4	240:11	John 30:13	100:16
173:9	240:11	30:14 53:6	100:17
175:4 177:21	248:14	110:23	Jones 46:5
179:2	248:15	110:23 170:3	46:6
179:6 179:11	248:16	170:3 193:10	Joseph 15:7
180:11	264:17	193:10	16:18
180:21	264:17 265:7	193:20	Joshua
181:22 182:5	265:7	193:20	155:4 155:4
182:12	Jeffrey 28:14	193:20	
182:16			
183:10			

journey	42:18 42:21	95:22 96:3	known 220:5
231:24	Keith 25:12	96:4	255:20
232:12	25:12	105:16	255:22 271:1
236:15	25:14	105:17	Koffel
237:23 239:8	25:21	244:25	137:5
Jr 24:4	59:20	244:25	137:5
24:8 29:10	60:14	245:15	137:5 137:19
29:13	64:16	245:15	137:20
judged 40:20	64:18 93:5	245:22	137:20
judgment	93:10	245:23 251:7	137:20
107:3	136:5	251:9 251:21	147:13
147:3 272:8	136:7	251:23	147:13
July 7:17	137:1	256:19	147:13
35:9	140:6	260:20	150:21
June 5:3	140:8	270:18	158:16
70:12	142:6 160:21	270:19	158:16
jurisdiction	160:23 162:7	Kevin's 278:9	158:16 159:5
83:18	181:2	key 9:22	159:6
83:24 138:22	181:4 183:10	36:22 195:9	159:7
139:1	183:12	kick 113:24	159:7 171:21
139:4 146:20	184:25	killed	173:5
156:16 170:7	Kelly	67:11	173:5 173:10
234:21	244:25	67:17 68:4	180:20
jurisdictiona	244:25	68:7 68:11	181:25
l 70:23	245:15	68:16 69:9	181:25
jurisdictions	245:15	83:9 83:13	181:25
63:15 156:6	245:21	84:9	182:10
Justice 50:17	245:22	Kim 30:9	182:18
justification	245:23	30:10	182:19
143:25 147:3	Ken 231:23	kinds 73:22	182:19
149:19	232:11	176:2	230:14
justify 100:3	236:14 239:7	Klein 152:8	230:16
<hr/>	KENNETH	152:8	233:10
K	231:22	knowledge	234:25 238:9
Kansas 26:14	232:10	91:6	241:2
Kathryn	236:10	knowledgeable	244:5 247:21
15:4 42:10	236:12 239:6	78:3	250:10 253:9
42:11	Kensington	234:12	262:24
	22:21	234:18	265:23
	Kevin 95:21		

278:17	86:21	124:3 143:5	258:21
Krause 22:2	86:23	largest 155:7	lead 52:11
22:5	111:6	LaRose	165:13
<hr/>	111:7 120:10	60:20	leadership
L	120:10	60:21 61:7	58:8
<hr/>	137:25	61:7	leading 15:19
L.P 21:3	137:25	Larry 21:12	216:1
labor 81:6	138:18	21:12	leads 51:17
laboratory	139:22	21:14 21:24	leaks 75:21
219:10	140:14	Las 31:10	learned 81:9
labs 112:13	141:15	last 57:10	least 85:19
lack 68:2	141:23 148:5	77:22 86:9	91:8 98:10
69:16	148:7	91:21	129:20
86:25	148:9	91:23	132:18 161:1
120:8 170:19	149:2	96:14	183:16
170:21	154:1	111:1	212:22 270:6
278:24	154:2 154:16	129:7 129:20	leave 34:15
lacked 56:12	154:21	139:24 183:7	124:21
lacking 85:8	169:10	227:13 250:8	220:16
LaCrosse	188:12 198:1	258:20	273:16
113:4	221:14 232:2	258:23 273:7	leaves 172:20
113:5 113:5	249:20 258:2	277:11	271:17
ladies	271:14	278:16	leaving 147:3
13:22 38:9	271:16	later 7:20	189:9
38:14	272:22	35:13 188:14	led 16:12
59:21	272:24 273:9	188:16	legal 69:1
94:22 127:10	275:11	latter 240:21	71:8 73:14
136:8	276:16	laundry	152:25
181:5 192:10	276:24	129:18	length 120:7
207:7 230:17	large 67:21	Lauren 70:1	lengthy 12:19
land 163:12	69:15	70:2	Leo 24:4 24:4
language	73:19	law 55:21	24:5 24:6
43:24	79:10	laws 79:9	24:7 24:7
44:18	83:12 86:3	Lawson 200:22	24:17
47:22	175:23 176:8	200:23	less 73:1
49:14	176:10	layer 212:21	118:7 174:12
65:18 73:3	185:21	layout 252:15	267:12
74:4 79:15	largely	255:17	
80:9 85:18	208:22		
	209:12 252:6		
	larger		

267:23	119:8 150:24	146:8	211:19
let's 17:19	150:24	149:8	212:15
32:1 36:9	271:19 272:2	166:1	212:25
39:8 60:15	274:16	166:7 166:12	limitation
81:23	275:16 278:6	166:18	212:24
82:22	279:2	166:23	214:18
95:17 114:19	levels	167:11	limited 36:17
114:24 128:5	55:23 63:1	167:16	40:20 85:9
137:2 158:12	267:17	189:12 207:9	114:14 119:7
181:23	271:21	254:20 262:1	151:16 165:6
189:20 193:8	274:16	lifesaving	277:25
200:19 201:9	275:15	90:7	limiting
205:3	lever 53:16	life-saving	99:15 116:15
208:1	leverage	69:18 84:2	limits 102:13
217:7	171:16	172:19	267:17
228:4 229:21	liability	lifespan	271:20
230:11	139:3	161:22	line 101:17
230:13	licenses 75:6	184:11	102:17 116:2
231:17 236:5	lieu 96:25	lift 267:18	116:8 116:11
239:19	life 18:1	267:19	116:20 118:1
243:21	18:20	light	249:22
244:22	18:22 19:6	237:16	lines 96:24
245:12 251:4	20:16	258:20	Lion 121:10
263:21	22:25 23:1	274:20	list 85:16
264:12	23:4 24:11	lights 11:1	129:18
264:14 265:4	25:7 25:17	34:8 34:11	132:15 192:4
265:4 272:19	26:16	likely	196:3 260:12
273:18	26:24	46:24 72:2	listed
276:16	38:12	174:12	84:22
letter	59:16	174:13 256:1	85:19 110:10
38:23 60:2	59:25	limit 11:19	169:14
70:20 95:7	60:12	96:17	173:25 174:6
97:7	72:16	99:19	196:3
127:19	77:16	99:25	219:4
136:17	79:18	102:8	219:7 219:12
181:14	122:4	114:7 114:19	219:14 220:5
192:24	122:7	115:18	220:7
207:17 231:3	141:3	116:25	listened
level 73:4	142:1 142:19	178:14	273:2
73:6 86:17	142:23 144:3		
108:13 118:3			

listing 102:16 112:13 131:24 210:2	89:22 129:7 LLC 17:23 25:15 29:13	269:10 269:16 277:24 278:7	205:20 206:5 206:7 206:17 206:18 206:18
lists 85:11 93:18	load 98:15 100:22 104:25	longstanding 42:24	Lunchtime 205:20
literally 71:10 258:8	111:11 113:15 116:16	lose 84:18	lungs 163:13
litigated 54:10	117:16 117:17 118:10	loss 7:6 7:11 14:11 63:15 64:8 89:11 122:4 124:22	Lurkins 70:1 70:2
litigation 49:19 54:9 71:10	118:21 119:5	lost 7:2 19:14 91:20 111:22	<hr/> M <hr/>
litter 75:22	loading 9:2	lot 37:13 46:17 49:19 53:22 54:4 69:13 104:4 111:1 112:15 114:9 121:12 145:12 162:16 164:15 171:8 171:9 176:6 178:3 182:21 215:17 215:17 262:4 262:6 262:13 269:21	MacCartney 30:9 Maccone 87:10 87:10 machine 169:6 179:13 Macon 133:8 main 72:17 84:20 97:20 124:2
little 103:17 121:15 162:18 175:19 243:14 246:10 257:3	loads 262:9 Load's 116:18 local 53:20 58:1 62:25 63:15 71:13 72:15 80:5 84:23 86:17	lots 170:12	maintain 97:20 105:10 123:1 208:23 208:25 219:25 221:14 254:25 272:1
live 171:3	located 9:19	love 79:20 275:5	maintained 75:12 101:13 168:6 176:7 177:4
livelihood 84:18	location 86:2 258:24	lovers 79:22	maintaining 43:1 77:15 196:15
lives 146:16 151:20 166:2 166:5 189:13 220:12	locations 75:8 87:1	lower 105:24	maintenance 18:7 18:9 19:10 20:9
livestock 61:11 76:16 78:7 79:21 84:19 85:8 85:25 90:12 90:15 91:20	log 9:21 36:21	lowest 123:1	
living 74:23	logical 166:4 logically 186:24 long 47:14 67:23 82:9 88:24 121:25 215:6 237:23 longer 101:10 219:4 232:21	lunch	

21:22 43:1	44:25 45:9	115:10	102:18
82:3 82:8	47:7 47:9	122:22	Marks 22:18
82:13 91:2	47:20 58:8	166:21 175:9	22:20
146:7 146:19	71:5 87:11	196:2 214:2	marshal 39:17
176:21	142:14	manure	41:10
176:23	148:24 175:6	63:21	48:22
177:12 194:9	manager	63:22 71:5	71:13 156:15
194:11	31:5 107:19	maps 34:17	marshal's
194:17	mandalo 247:2	Marcelo 128:8	56:9 58:3
major 77:23	mandate 51:20	128:8 128:19	Martin 24:4
113:16	68:20 74:21	128:24	24:7 24:8
majority	mandated	130:18 132:7	Mary 15:5
8:5 11:11	55:20	132:8	Maryland
35:3 41:7	mandatory	132:9 135:12	22:22 30:20
83:12	43:24	135:13	Mass 150:10
85:12	44:17 45:1	135:13 153:5	186:9
85:14	47:11	153:5	Massachusetts
86:12 97:6	47:22 90:9	179:4	24:9
235:25	153:14	179:4 259:15	massive 67:18
maker 10:1	manner 63:4	259:15	68:6 68:22
10:3 10:10	122:8 155:19	margin 98:11	Master 117:7
12:7	155:23 216:4	Maria 22:18	match 257:22
135:21	manual	22:18	material
162:14 201:3	43:25 242:15	22:20 24:1	131:17
202:13	manufacture	Marinas	131:23
202:25	220:7	27:4 30:16	140:18
203:13 204:1	manufactured	marine 30:9	208:22
204:14	106:13	30:15	214:13 249:6
205:14	manufacturer	Mark 118:18	264:6 266:21
239:10 245:2	105:22	118:19	materials
245:6	105:25	165:23	21:7 31:22
makeup 83:12	112:18 117:8	165:23	130:2
malfunctionin	121:2 122:18	187:19	131:1
g 146:13	169:8 176:23	187:19 215:3	131:7 131:24
malfunctions	193:22	215:8	133:15 196:3
172:21	195:23 197:1	215:8 260:24	matter 9:13
managed 72:1	197:25 198:5	261:2 261:2	105:13
management	manufacturers	market 110:17	156:15
27:3 31:14	104:15	marketplace	

214:21	223:14	156:13	80:13
255:16	224:10	media 67:20	80:17 85:4
255:18 256:2	224:11	medical 56:19	97:7 99:18
matters 8:21	226:23	Medicare	99:23 107:25
Matthew 30:19	226:24	156:8 156:8	108:1 130:24
30:20 256:25	227:12	medium 69:3	131:11 140:9
256:25	227:15	69:11	140:10
max 111:21	McDevitt	70:16	141:12
113:14	30:13	79:10 86:4	160:24
113:15	mea 221:21	meet 35:24	161:23
maximum 98:15	mean 106:14	40:11	183:13
100:22	111:8	58:10	184:12
104:25 106:1	143:2	69:10	211:17
114:4 117:14	145:3 169:20	81:15	211:24
118:21 119:5	meaning	112:6 124:20	212:14
213:4	143:18	220:15 247:2	218:19 220:8
may 8:17 11:6	means 20:17	meeting 5:1	245:10 249:3
11:14	23:6 55:25	5:25 6:10	254:22 258:9
11:19	56:3 56:24	6:13 6:24	263:24
13:12	65:9	7:8 7:15	270:11
34:19	220:21	7:19 7:25	275:20
36:17	237:24	8:12 10:5	280:19
46:23 48:7	meant 68:21	10:11 11:7	280:22
66:17 75:6	85:5 277:6	11:16	280:24
83:22	measure 74:20	12:22 13:8	meetings 5:11
100:8	132:22	13:15	16:3 49:1
102:6	measures	13:23 14:1	55:5 273:2
105:5 121:14	68:18	16:8 32:5	meeting's
202:7 202:21	83:20	34:20	7:23 8:12
203:7 203:20	84:11	34:22 35:7	meets 114:5
204:8 204:21	90:17 132:21	35:10	melting
maybe 174:10	149:4 172:15	35:11	117:24
McComb 89:18	186:1	35:21	member 9:16
McConnell	mechanical	35:23	14:25 16:7
217:10	99:2	39:10	16:24
217:12	160:12 169:4	40:21	22:13
219:22	169:6 169:12	43:21	31:23
219:23	176:15 274:3	44:12	31:24
223:13	mechanism	64:19	36:10 36:16
		64:23 66:1	

38:12	mention	230:6 230:7	10:4 39:11
38:12 46:9	187:21	mess 21:16	42:7 46:4
55:3 58:5	mentioned	met 144:12	48:19 50:2
61:17	29:21 84:8	Metal	53:2 54:21
74:15	85:12	145:25 172:7	60:19
77:21	86:20 100:20	meters 213:2	66:11
89:21 112:23	106:9 108:15	method	66:17
122:18 149:4	108:20	55:25	66:18
197:13	109:23	130:1 133:25	69:24
206:10	123:20	161:5 161:10	72:12 74:7
215:14	123:24 148:4	162:1	77:8 79:25
270:13	149:23	162:4	80:25 83:2
275:19	154:14 156:7	167:3 183:19	84:14 87:9
members	237:2	183:24	89:14 92:3
8:13 8:16	237:3 273:15	184:15	95:19 100:15
8:19 9:21	mentioning	184:17	101:21 103:3
11:10	277:23	methodology	104:11
11:11 30:2	mercantile	8:25	105:15
36:20	20:18	methods 19:17	107:14 108:5
41:21 42:2	Merchant	82:9	109:7 110:21
42:15 58:1	256:25	132:12	113:1
74:19 78:4	256:25	132:14	115:3
78:9 78:19	mere 186:17	218:23	117:3 118:15
194:1	merely 279:11	220:22	119:25
199:2 201:12	Merton	MGI 30:3	120:24 121:8
membership	17:20	mic 224:23	122:12
7:4 8:4 8:21	17:20	Michael 77:10	123:18
8:22 10:22	17:22	77:11 100:16	124:11 125:4
11:15	17:23	100:16	128:7
11:25 13:2	18:11	Michele 14:3	132:7
35:1 58:13	207:4	micro 170:22	133:4 133:19
104:17 105:9	207:6 207:25	microbes	134:14
183:3	210:15	75:17	135:12 137:4
183:4 210:12	210:17 215:1	micro-	142:11 144:7
214:4 214:17	216:10	organisms	145:22
233:2 236:18	216:12	171:3 171:6	147:12
237:6 239:13	217:20	microphone	148:21 150:8
243:20	217:22 222:5		152:5
273:24	222:7		153:4 153:21
membership's			155:2 156:24
12:3			158:15
			162:11

164:25	261:24	233:7 234:24	91:20
165:21 168:1	264:16 268:9	235:1 235:12	91:20 164:8
170:2	270:17	235:15 236:8	Milosh
172:4	272:15	236:11 237:9	94:17
173:4	273:20	237:18 238:4	94:19 99:9
175:4 177:22	274:24	238:14	99:11
179:3	276:19	239:14 240:3	mind 79:14
179:8 181:24	microphones	240:8 240:24	129:1
185:6 185:16	11:1 11:3	242:22	minimally
186:6	92:14	243:24 244:6	11:10
187:9 187:18	132:4 157:7	245:4 245:18	minimum 55:20
188:6 188:23	middle 78:1	245:20	69:11
189:25 190:6	Mike 120:25	247:18	124:1 194:15
197:11	120:25 206:4	249:24	mining 29:15
198:18 199:4	206:9 206:13	250:11	Minnesota
200:21	207:25 208:8	251:15	28:18
201:11 205:6	208:12	251:18 253:6	minor 223:2
208:3 210:25	208:14	255:5	minute
213:12	208:14	256:7 256:20	11:21
213:24 215:2	210:14 213:9	258:4 258:15	45:24
217:9	213:23	258:18	56:18
218:5 219:21	214:22 215:3	259:13	116:5 116:19
221:6 221:18	215:5	259:24	116:21
224:20 225:7	216:6 216:15	260:22	116:22
226:22	217:17	260:25 261:1	277:11
231:21	219:20	261:23	minutes
233:21	220:25	262:17 263:4	9:14 11:18
235:14 236:9	221:17 222:1	264:22 265:2	111:2 117:23
237:10	222:8	265:20 268:4	126:25
237:19 239:5	223:3 223:22	270:16	170:24
239:21	224:1 224:19	272:14	206:15
241:24 243:2	224:25 225:6	273:19	mirrors
244:24	225:17	276:19	212:25
245:14 248:9	225:24	278:12	misguided
250:4	226:18 227:6	279:15	62:19
251:6 253:18	227:9 227:24	million 67:11	mislead
255:11 256:8	228:3 228:13	67:12	153:15
256:23	228:15	67:17	missing
256:24 258:5	228:24 229:4	74:15 155:9	
259:14	229:10 230:8	millions 69:8	
259:25	231:16 232:5	69:18 84:9	
260:23	232:7		

155:16	227:15	10:4 10:7	81:3 82:25
mission 14:18	Monday 107:25	10:10	83:5 87:5
74:17 79:2	money 89:3	10:15	87:12 88:5
Mississauga	monitor	10:19 11:2	89:10
21:15 21:16	81:8 110:9	11:4 11:6	89:18
mistake	171:20	12:1 12:4	91:25 94:1
142:17	254:20	12:7 12:8	94:2 94:10
mistakes	monitored	12:10	95:18
171:22	159:19	12:10	95:20 96:5
misuse 72:9	monoxide	12:14	99:7
mitigate	18:25	12:18	100:12
122:1	month 86:5	12:22	100:14
mitigates	moot 54:9	12:24 13:4	100:19
152:25	morning 13:21	32:23 39:9	101:25 103:5
mitigation	32:9 33:24	39:13	103:8
26:19	38:9 42:10	39:19	104:8 105:18
modeling	53:5 54:24	39:25 40:6	107:11
215:20	60:20 70:1	42:9 42:19	107:23 108:2
modification	72:13	42:21	109:2
140:24 174:4	77:10 81:1	44:10	109:4 109:10
modifications	94:17	44:20 46:2	110:25 113:3
254:20	94:19 100:16	46:3 46:8	113:6 114:19
modified	109:8 191:18	46:24	115:5
140:17	200:22	48:14 50:4	115:7
141:15 254:8	Morris 193:10	50:11 53:4	117:5
modify 254:23	193:10	53:8 54:19	117:8 117:10
modifying	193:20	54:23 57:3	118:11
140:11	193:20	58:14	118:17
mold 164:20	193:25 196:7	58:20	118:20
moment	198:19	58:21	119:22 120:3
45:24 205:1	198:22	58:25 59:2	120:21 121:3
Monaco 217:13	198:22 205:9	59:9 60:22	121:11 122:9
219:24 220:6	Morris's	61:8 62:8	122:16
221:25	195:9	66:10	122:20
223:14	mostly 90:1	66:13	123:16
224:11	motion 6:16	66:21	123:22
226:24	6:23 10:2	69:12	124:12
		69:21 70:3	124:16 125:1
		72:15	125:2
		74:12	125:5 125:11
		74:19 77:5	126:4 126:5
		77:13 80:5	

126:8 126:10	162:14	201:3	217:8 218:12
126:18 127:5	162:15	201:4	220:16
128:6 128:10	164:13	201:6	220:24 221:2
128:13	164:23 165:3	201:8 201:10	221:5 221:23
128:24	170:5 173:11	201:13	221:24 222:3
128:25	175:7	201:14	222:10
128:25 132:3	178:1	201:19 202:7	222:11
132:6 132:10	179:1	202:9 202:11	222:15
133:6	179:6 179:19	202:13	222:16
133:9 133:17	179:22	202:14	222:23 223:4
133:20	179:23	202:21	223:6
133:23 134:8	180:12	202:23	223:7 223:11
134:11	180:16 182:5	202:24 203:1	223:16
134:22 135:8	182:16 185:2	203:2	223:24 224:4
135:9 135:10	185:5 185:10	203:7 203:10	224:12 225:3
135:15	185:19	203:11	225:13
135:17	186:10 189:1	203:14	225:22 226:2
135:21 137:3	190:4 190:17	203:15	226:3
137:6 137:11	190:18	203:20	226:7
140:2	190:20	203:23	226:8 226:25
142:8 142:10	190:25 191:2	203:24 204:2	227:2 227:17
142:15	191:6	204:3	228:12
144:11	191:8	204:8 204:11	228:21 229:1
144:13	193:9 193:11	204:12	229:8 229:13
145:20	193:13	204:15	229:14
147:15	193:19 195:7	204:16	229:15
148:19	195:9	204:18	229:17
148:25	197:7 197:10	204:21	229:18
150:11 152:3	197:15	204:24 205:4	229:24
152:7 152:10	197:16 198:1	205:11	230:12
153:7 153:24	198:9 198:16	205:12	231:18 232:1
154:3	199:8 199:13	205:15	232:14 233:2
155:5	199:16	205:18 208:2	234:3
157:4	199:17	208:6	235:2
157:8 157:18	199:24 200:1	208:9 208:11	235:3
157:21	200:2	211:8 213:11	235:6
157:22	200:6	213:14	235:8 235:18
158:11	200:8 200:14	213:19	236:17 237:7
158:13	200:15	214:23 215:9	237:14
158:22 159:8	200:17	216:8 216:17	237:22 238:5
159:13	200:20	216:18	238:12
162:10	200:25 201:2	216:23 217:4	238:16

238:17	263:7 263:12	129:2	60:22
238:21	263:17	136:1 180:22	93:12
238:22 239:3	263:19	191:12	94:14
239:10	263:20	191:15 192:2	95:13
239:11	263:22	192:5	95:23
239:15	263:23	192:5 202:17	126:1 126:23
239:16	263:25 264:3	203:4 203:17	128:1
239:20 240:4	264:15	204:5 205:24	128:9 134:19
240:10 241:8	264:23 265:5	206:1 206:22	135:11 136:2
241:10 242:2	265:24 266:5	206:25	136:22 137:6
242:7 242:24	268:8 268:14	220:20 223:1	159:12
243:1	270:14	226:11 230:4	180:24
243:7 243:21	270:22	230:4	181:18 182:1
244:1	270:23	241:7 280:16	191:20 193:4
244:8	272:18	motion's	193:11
244:9 244:14	273:23 275:2	12:18 13:1	199:25 201:8
244:21	276:21 278:8	motor 30:11	202:8 202:23
244:23 245:2	278:13	30:17	203:10
245:3	279:17	96:17 109:18	203:23
245:6	279:18	109:18	204:11
245:7 245:13	279:22	113:17	204:24
245:16	279:23 280:7	117:12	205:11
245:24	280:8 280:9	117:13	207:22
246:22	motions	117:14	208:10
248:13	5:10 5:18	117:17 118:4	216:16
248:20 250:1	5:24 6:2 6:4	118:5 118:9	217:14 222:8
250:3	6:5 6:6	motorized	223:17 227:1
250:6 250:13	6:9 6:11	178:23	227:18 230:5
250:14 251:3	6:12 6:20	motors 96:8	230:8 231:13
251:5 251:24	6:21 7:1 7:5	105:21	233:4
253:3 253:21	7:10 8:3	111:14	237:5 238:15
254:1	10:7 12:5	113:10	240:1
255:7 255:10	12:13	motor's 112:9	244:7 250:12
255:15 256:4	32:11	move 36:7	251:12 263:5
256:11 257:2	32:15	39:4 39:19	264:20
258:3 258:17	32:20	48:14	279:15
259:12	32:21 33:4	57:16	movement
259:23 260:3	34:25 36:3	58:19	90:18 246:6
260:19 261:3	36:8 45:21	59:15 60:10	movements
262:1 262:18	59:14		248:24
263:1 263:6	60:16		moves 96:6
	94:13 126:22		

moving	145:24	67:12	NEMA's 105:13
49:16	193:10	74:14 162:19	214:21
57:20	193:20	198:2	NEMI 153:23
79:13 158:19	201:12 239:7	Nebraska	168:3 188:7
178:18 217:7	Nancy 30:24	31:21	net 76:13
229:5 237:15	30:25 31:8	necessarily	neutral 78:10
237:16	narrow 119:4	11:9	Nevada 31:10
245:12 249:5	nation 155:7	168:10 210:7	newly 68:21
MPSHA 124:5	national	256:1	194:3
multi 274:2	17:25	necessary	news 85:9
multiple	19:20	11:20	NFPA 5:1
71:11	24:15	36:15	5:8 5:9 5:16
98:12 141:13	42:12	40:14	5:20 6:24
145:3	50:19	45:12	7:14 8:4
145:6 145:14	77:11 100:17	75:15 152:15	8:12 9:1 9:3
156:5 186:16	104:15	196:14	9:17 11:5
257:20	142:14	256:14	11:13 13:8
multiplex	148:24 175:6	necessity	13:15
218:16 219:3	206:20 207:9	47:23	13:22 14:5
219:11	207:15	negative 97:8	14:7 14:13
219:14	207:20	97:11	14:17
221:15	207:24	97:12	14:21 15:1
multiplied	210:23 214:1	97:18	15:18 17:2
117:17	218:3 239:23	98:14 141:12	17:3 17:17
municipal	240:11 243:4	142:4 161:16	18:12
75:1 116:11	264:17 265:7	162:5	18:14 20:2
myself 137:22	268:11	184:5 184:19	20:21
147:14 153:6	nationally	220:17	21:11
256:10 257:1	219:10	negatively	21:25
258:8 259:16	nation's 51:5	63:25 144:1	22:16
262:2 273:23	nationwide	negatives	25:10
276:21	82:12	65:23 242:20	25:22 26:9
<hr/>	nature	255:3	27:14
N	105:4 143:20	Neiderheiser	28:12 29:8
NAFI 42:14	Navigate360	72:13	30:1 31:9
42:21	15:8	72:14 80:2	31:25
NAFI's 43:3	nearest 34:16	80:4	32:12
name's	34:19	neither 85:6	32:25
54:24 122:14	nearly 37:9	NEMA 121:4	33:11 34:1
			34:17

34:25 36:3	112:23 116:2	202:20 203:2	254:25 255:1
36:18	118:11 122:6	203:6 203:15	259:18
36:20 38:4	122:19	203:19	259:22 266:9
38:12 41:3	126:19	203:24 204:3	271:2
41:11	126:22	204:7 204:12	271:7 280:11
41:12	126:23	204:16	280:17
41:15	127:17	204:20 205:5	280:18
41:15	127:24 128:2	205:15	280:19
41:24	136:1	205:17	NFPA.org/1321
46:10	136:3 136:10	205:21	39:3
46:20	136:16	206:10	NFPA.
46:23	136:20	206:19	org/2024tech
47:16 48:7	136:21	206:22	session 33:7
48:15 49:3	136:24	217:25	33:8
49:11	137:25 138:1	221:15 230:2	NFPA's 5:12
49:16	138:11	230:8 230:14	5:22 8:2
49:23	138:15	230:19 231:1	14:18 34:24
50:14	139:25 140:3	231:6 231:10	NFRA 128:9
52:13	140:3	231:14	132:10
52:23	148:6	232:17	135:14
57:13	148:7	233:14	NFSA 240:17
59:12	148:9	233:17	NFSA's 239:24
59:14	149:3 153:11	235:25	240:12 243:6
59:16	159:12	236:24	264:19 265:8
59:25 60:5	160:13	240:16	268:12
60:8 60:12	164:15 165:5	240:22	nightmare
61:16	177:1 180:17	241:18	72:3
62:21 63:3	180:22	241:21	nine 78:9
63:14 70:5	180:25 181:7	242:14	78:10
72:16	181:13	242:15	78:12 80:7
73:11	181:17	243:18 247:8	265:14
82:24	181:19	247:11	ninth 265:16
84:22 85:4	184:21	247:25 248:4	NIST 50:17
86:8 86:11	184:24	248:7 249:14	NITMAM 32:22
86:21 90:4	191:21	249:19	noble 84:5
94:13	192:12	252:19	85:2
94:15 96:7	192:22 193:2	252:25	nobody 134:14
96:15 102:17	193:6 194:12	253:12	165:14
102:20	194:14 195:3	253:15	
107:22	196:10	253:20	
109:11	196:22 201:4	254:14	
112:13	202:6 202:14	254:25	

256:22	280:12	263:3	obscuration
Nobody's	non-fire	Nothing's	212:18
112:5	75:20	151:5	observations
non 45:23	nonfunctional	notice	273:11
54:4 75:16	161:13 184:2	32:22	obstruction
131:14	non-	92:13 264:8	177:16
153:13 205:7	overloading	noticed 62:4	274:19
223:12	96:20 114:1	notices 6:22	274:19
non-	normal 98:8	notification	obstructions
combustibili	212:24 213:1	25:3 27:6	269:23
ty 129:19	229:12 270:2	174:16	obtain
129:21	278:1	notified	46:16 105:24
130:13	normally	202:14 203:1	obtaining
130:16	177:9	203:14 204:2	6:17
132:15	North 26:2	204:16	obvious
132:23	26:3	205:15	71:1 166:12
132:24	Norwood 24:9	noting	obviously
133:13 134:6	note 6:17 9:9	78:14 249:4	110:16
non-	184:20	novel 96:13	116:12
combustibili	249:12	nowadays	165:14
ty's 129:11	265:12	166:12	235:19
non-	265:15	Nth 112:12	occasion
combustible	266:13	nuclear 26:20	57:16 151:16
130:25 131:3	266:13 267:3	29:17	occasions
131:4	268:15	numerous 71:9	257:20
131:6 131:12	268:17 269:6	89:23	occupancies
131:16	277:16	nursing 73:22	19:15
131:19	noted 86:8	_____	20:18 23:8
131:22	134:1 242:12	_____	23:13
noncompliant	267:15	0	26:25 254:15
40:21 175:3	267:21	object 21:22	occupancy
none 57:5	notes 267:20	objective	168:14 210:4
93:10	nothing 51:24	40:11	255:23 256:3
93:11 148:12	114:20	47:16 146:21	262:12
169:16	120:17	147:9 208:23	266:12
214:25	147:16	objectives	268:18
216:10 222:5	150:12	45:7 210:3	268:22
244:3	168:23 244:5	210:5	268:24 269:2
250:8 278:15			269:3

269:6	194:19	210:5	238:15 240:3
270:2	195:24	Oh 263:22	244:17
272:5	217:20	278:4 278:4	244:19 245:4
272:6	227:25 233:8	Ohio 86:6	249:25
274:9	240:25 241:3	86:13	250:11
276:3 279:4	247:19 253:7	89:18	250:24 251:4
occupants	265:21	89:21 213:18	251:15
141:4	offers 130:7	221:10	263:16
142:2 146:11	Office 56:9	225:12	264:13
147:5	70:14	228:19	278:12
150:5 172:23	officer	oil 75:17	278:15 280:4
210:4	6:12 10:1	okay 37:4	Okie 250:5
212:5 212:22	10:23	37:22 38:3	Oklahoma
occupational	11:17	93:2 116:1	30:24 30:25
22:9 22:10	11:18 12:2	125:11	Olathe 26:14
occupationall	12:5 12:9	125:23 127:2	old 68:20
y 54:1	31:4 32:6	127:4	103:23
occur	33:18	127:7 128:17	older 103:17
150:16	33:22	134:19	Olsen 24:19
167:14	39:15 46:6	157:17 158:8	24:21
175:24 188:3	46:14	158:12 159:3	Omaha 31:20
occurred	49:25	160:6	omit 73:16
67:18 68:3	95:21 191:16	160:8	ones 114:20
71:5 86:17	206:3 206:11	179:6 182:12	144:16 156:7
91:22 218:17	217:11 223:8	182:16	163:4 163:4
occurs	225:9	190:13	one's 266:1
100:7	251:8 251:22	190:14 199:3	one-size-
167:5 167:9	280:15	199:8	fits-all
Ocoee 27:20	officers 8:20	201:1	71:22 85:23
O'Connor	offices 58:3	201:9 201:22	ongoing 65:25
218:7	official	202:3 202:11	87:4 87:4
218:8 218:9	70:12 107:22	205:12	91:10 271:3
offensive	officially	214:22 217:2	on-site 64:21
74:1 165:15	11:16 16:7	217:3	75:3 121:22
offer 64:16	280:18	222:2	Ontario 21:15
99:9	280:23	222:8 222:19	open 10:12
130:19 140:6	officials	222:21 223:3	37:3 37:5
160:21	53:20	223:12 224:2	
183:11	oftentimes	224:8 226:18	
		226:20	
		229:13 235:1	

37:18 46:1	116:6	134:15	215:9 218:12
66:9 87:1	119:2 144:4	147:25 206:5	234:3 235:18
100:11 101:1	operates	216:11 222:6	242:7 244:20
101:10	41:11	238:7	248:20 254:1
110:16 132:2	operating	244:4 262:22	257:2 258:24
142:7	40:25	278:15	273:23
162:8	58:11 124:6	278:16	option
164:6 164:21	operation	oppose 114:18	65:19 166:24
168:19	47:7 69:4	117:8 120:20	178:25
168:21 169:3	70:17 71:6	121:3	187:24
174:3 175:11	81:22 174:25	135:9	options 130:8
175:16 177:9	176:16	258:3 259:23	Orange 34:6
178:15	operations	opposed 49:22	34:17
180:10 185:1	15:21 41:6	94:9	Orangeburg
197:6 213:10	44:25 45:9	109:25 113:6	29:13
221:1	46:6 46:14	122:9 125:25	order 6:1
235:5 242:23	47:20	158:10	10:2 12:8
249:25 255:6	53:19	187:16	12:12 33:4
268:5	61:12	235:23	36:4 66:16
open-	68:16	opposes 42:21	80:1 92:20
circuit	68:22 69:2	45:21 52:24	93:13 99:1
191:23	69:10	opposing	103:16 106:6
192:14	69:16 70:6	49:11 101:25	115:17
opened 85:4	83:8 83:12	124:8 197:15	122:25
opening 136:4	107:19	opposition	179:12 192:2
136:10	opinion 166:6	10:15 13:3	198:10
136:25 181:1	167:7 276:1	46:8 46:25	199:13
181:8 181:21	opinions	50:8 50:11	206:22
openings	121:4	66:21 74:3	219:25 229:7
177:7	opponents	83:5	231:19
operate	11:4 153:8	104:16 109:9	ordered 6:3
75:9 96:12	opportunities	121:10	34:15
99:16	250:9	142:15 146:1	orders 32:7
99:20	opportunity	152:10	ordinary
100:1	44:11 48:4	153:24 168:4	259:8 267:13
100:5 100:21	57:6 66:22	172:8	274:20 276:7
101:15 102:2	93:5	174:8 185:18	279:1
102:8 104:24	102:23	188:8	organisms
110:6 110:6	120:20	195:7 197:15	170:23
		214:3	

organization	119:14	overflow	owners
34:1 41:3	182:11 241:6	63:21 100:7	84:19 106:18
41:9 42:14	257:22	overload	112:16
45:3 48:20	257:24	100:8 109:17	141:23 165:7
49:10 50:3	originally	113:17	178:13
50:15	274:13	113:17	254:19
51:25 53:3	Orlando 32:13	113:20	owner's
54:22	OSAC 41:22	113:22	252:19
66:13	45:3 50:13	114:16	256:13
66:19	50:16 51:1	114:24 118:9	256:16
66:25 67:1	51:4 51:20	overloaded	260:12
69:24 74:8	52:21	105:2	260:14
74:14 77:8	OSAC's	overnight	261:13
79:25 83:3	40:11 50:6	89:2	261:18
84:4 84:5	OSHA 155:18	overreach	262:11
84:15	195:12	258:10 276:1	<hr/> P <hr/>
89:15	197:24	override	page 39:2
95:20 107:15	others 16:4	143:19	60:8 79:1
108:6 110:21	154:14	143:22	95:10 127:24
113:2	175:14 179:7	overrule	129:1 136:20
115:4	other's 52:7	143:24	181:17 192:6
117:4 118:16	outcomes	oversized	193:2 207:20
124:11 125:4	51:11 52:18	101:4	231:10 235:4
133:5 133:19	outgoing 30:3	overview	pages 20:1
153:21 155:2	30:13	262:9	135:1
156:20	outlined 47:1	overwhelming	135:2 206:25
165:21 168:2	47:8 48:7	57:15 186:1	223:4
172:4	48:10 152:14	owner 46:13	paid 275:4
organizational	194:14	56:21 103:22	painful
l 10:17	outside 9:6	138:18	226:20
10:21	70:17	143:23	painless
organizations	70:23 138:11	147:24	167:6
40:15	outstanding	150:18	painlessly
40:19	14:17	152:17	167:18
40:25	overage 107:6	152:21	paint 76:23
46:18	overall 47:14	156:18 167:8	Pancake
51:23 52:6	76:18 105:11	174:12 252:7	107:17
62:5 74:16		252:13	107:18
186:19		252:21	
original 45:2			
50:14 108:14			

panel 19:21 24:16 143:8 168:21 215:12	51:3 participated 215:11	229:24 239:3 244:21 251:3 255:2 263:20 280:9	pause 37:3 pay 34:3 64:8 pays 241:4
panels 24:15	participating 10:14	passenger 23:14	PC 65:13 96:6 278:22
papers 258:20	participation 13:11 14:9 33:12 280:13 280:21	passes 12:18 96:8 126:18 135:10 157:18 179:19 180:16 190:17 191:6 191:8 220:19 222:23 233:4 237:4 238:12 241:10 263:2	PCs 98:5 peak 115:24 peaks 115:13 Peerless 109:9
paragraph 117:10 117:11 233:22 242:1	particles 171:5	particular 41:10 215:13 216:2	pejorative 79:4
paragraphs 138:5	particularly 41:6 175:12	partner 81:13	penetrating 129:17
paramount 172:24	Partners 108:8	Passing 54:13	Pennsylvania 30:14
Pardoe 25:12 25:14 25:15 59:18 59:20 64:18 93:10 136:7 140:8 160:23 181:4 183:12	party 83:25 252:1 252:10	passive 274:11	people 29:21 48:1 53:20 77:24 88:5 88:18 89:8 89:9 90:3 92:14 112:3 113:9 129:5 132:17 155:13 157:6 162:16 162:25 163:5 180:7 189:3 189:7 189:9 189:14 189:17 190:5 262:3 269:22 272:24 273:2 274:10
parenthetical 265:16	pass 79:9 92:16 133:15 175:21 176:13 217:4 226:12 263:2	past 47:18 69:9 84:8 96:23 113:12 174:1 183:3 197:19	per 6:14 7:17
parenthetical s 265:14	Passage 117:10	path 50:21 91:21 160:4	
Park 30:4	passed 7:10 7:19 35:11 73:3 78:12 78:18 80:18 141:11 142:3 161:15 162:4 163:18 184:4 184:18 184:22 186:1 199:24	pathogens 75:13	
parking 27:24 269:18 270:25 271:5 276:6 278:1		patient 163:1 163:2 163:15 171:1 187:3	
participant 5:14		patients 163:11 164:7 164:21 171:25	
participants 5:16 14:17		patrons 144:2 169:23	

11:5 70:12	117:22 118:8	148:1	perspectives
116:9 116:10	119:2	154:4	102:24
116:21	119:7	154:6	Pete 53:5
116:23 122:3	119:8	161:2	Peter 27:16
126:10	122:4 122:24	161:8	27:16
163:23	123:4	167:4 167:10	27:18
195:12	123:6 123:11	183:17	28:11 53:5
232:20	124:7 151:22	183:22	53:10
242:15 268:2	175:16	periodically	103:6
percent	175:19	141:8	103:7 272:16
69:8 76:8	perfect 107:1	perished	272:17
76:15	perfectly	86:10	Peterkin
76:19 79:5	168:6	permission	144:8
82:20	perform 87:13	152:17	144:9 177:23
85:19	96:23 148:14	permit	177:24 185:7
96:10	167:15	65:20 271:15	185:8 235:15
96:18 97:5	234:22	permitted	235:16 256:9
97:15	performance	10:8 83:23	256:9
97:16	47:9 96:10	178:11 210:8	phase 96:7
98:10	97:20 98:7	person 6:14	117:15
98:15	102:14 118:6	149:25	196:14
99:16	194:7 194:16	232:24	208:17
99:20	210:6	personal	phone 9:17
100:1	212:9 213:6	9:1 33:13	36:16
101:8	performance-	191:25	phonetic
102:2	based 274:14	personally	87:11
104:4 105:25	performed	91:15 155:12	89:17
106:14 107:5	175:13	personnel	121:1
107:6 109:12	234:20	31:22 192:16	125:8
109:17 110:1	performing	232:16	125:8 142:14
110:13 111:4	146:18	232:19 234:7	145:25
111:12	148:16	234:12	172:13 247:2
111:22	perhaps	234:14	248:16 257:1
113:10	104:23	235:20	276:8
113:13	period 17:1	235:21	physical
113:15 114:8	32:23 219:15	perspective	140:23
114:14 116:6	periodic	44:20	176:16
116:20	140:13	119:7 119:15	physically
116:22	140:23 141:5	172:1 172:1	8:15
116:23			
116:24			
117:20			

169:11	254:15	29:11 33:9	199:13
176:14	254:18	34:3 36:12	199:19
pick 112:18	254:25	36:25 37:6	200:10
142:19	257:22	38:7 40:5	200:21
picked 62:25	257:22	43:10 46:2	201:11
Pickens 165:1	planning	50:4 53:4	201:24 207:4
165:1 185:17	15:20	59:4 59:18	208:9 208:15
185:17	plans 15:23	66:11 77:4	213:12
picture 76:23	37:14	79:22	216:25 221:3
pictures	37:21	82:25	222:18 226:7
176:1	252:5	92:20 94:4	226:9 226:10
pieces 124:19	252:8	94:17 96:2	227:11
pigs 67:13	254:6 258:25	99:10 100:13	229:11
pipe 102:13	258:25	103:5	229:17
123:25	275:13	115:5	229:19 232:9
pipes 75:16	plastics	117:5 118:17	235:7 238:24
176:3	130:9	120:19	240:9 242:25
pipng	platform	122:13	244:16
21:18 28:8	54:15	124:13 125:6	245:21
231:25	play 77:15	126:12 127:7	247:20 250:2
232:13	82:10	127:8 128:18	250:21 251:6
236:16 239:9	PLC 21:15	128:22 129:1	255:8 259:12
PIs 96:16	please 6:4	132:4	262:16
pits 63:21	6:17 9:9	133:1 134:20	263:14
placement	10:16	135:3	264:16 268:7
81:20 91:6	11:23	136:5 137:18	268:9 270:14
places	13:14	142:9	276:17
82:15	13:17	152:7 153:18	278:10
93:14 142:23	14:19 15:9	154:2	279:22
placing	16:15 17:7	155:3 157:15	279:24
152:19	17:20	159:4	279:25
plan 41:5	18:15 20:3	162:9 164:23	pleased 17:3
124:22	21:12 22:3	167:24 168:2	pleasure
124:23	22:18 24:4	179:16	13:25
251:25	24:20	182:18	14:16
252:18	25:12	184:20 185:3	32:13
254:12	25:25	188:5 189:23	206:3 280:14
	26:11	190:12 192:5	plenty
	27:16 28:15	192:7 193:18	92:11
		197:8 197:11	92:17
		198:16	143:3 277:9
		198:18 199:4	

plus 111:22 124:4	policies 45:13 45:15 45:19 47:2 47:6 47:11 48:10 49:21 53:18 58:11	60:25 61:3 64:15 66:8 69:23 72:11 74:6 77:7 79:24 80:24 83:1 84:13 87:8 89:13 92:2 92:8 92:11 93:9 93:11 93:17 93:24 94:20 95:16 95:24 96:1 99:8 99:12 100:10 101:20 103:2 104:10 105:14 107:13 108:4 109:1 109:6 110:20 112:25 115:2 115:8 117:2 118:14 119:24 120:23 121:7 122:11 123:15 123:22 124:10 125:3 125:11 125:15 127:2 127:9 128:4 128:12 128:17 128:21 130:18 130:22 132:1 133:3 133:18 134:10	134:18 135:16 137:1 137:10 137:17 140:5 142:6 144:6 145:21 147:11 148:20 150:7 152:4 153:4 153:20 155:1 156:23 157:4 158:22 159:3 160:20 162:7 164:24 165:20 167:25 170:1 172:3 172:10 173:4 173:9 175:4 177:21 179:2 179:6 179:11 180:11 180:21 181:22 182:5 182:12 182:16 183:10 184:25 185:15 186:5 187:8 187:17 188:6 188:23 189:24 190:4
pneumonia 162:25 163:4 163:14	policy 66:23 74:11 79:15 195:21		
podium 191:14 205:25	political 79:19		
point 53:14 81:16 82:8 87:15 88:10 88:14 93:13 98:16 104:3 106:1 113:8 113:13 114:2 114:15 114:25 115:20 116:17 119:6 123:9 143:9 153:9 178:20 180:6 229:7 249:17 257:5 257:7 273:5 276:22 277:11 279:10	Polk 25:24 26:1		
	pollutant 63:11		
	Poole 26:11 26:13 26:13 33:19 33:20 33:21 38:8 39:7 39:15 39:24 40:4 40:8 42:6 42:16 42:20 43:8 43:12 43:13 45:22 48:18 48:24 50:1 50:9 50:12 53:1 53:9 54:18 57:2 58:18 59:20 60:14		
pointed 145:14 153:8 273:5			
pointing 186:3			
points 97:13 102:15 105:19 144:14 195:9			
			population 73:6 170:17
			pork 77:11 82:20 91:8
			Port 22:5
			portions 137:8 137:13 157:24

158:20	58:16	practices	15:14 16:9
158:24	102:4	51:16 52:3	23:19
179:24 182:7	102:6	52:8 62:13	preparer
190:22	106:6 121:24	84:24	255:17
240:21 254:4	123:1	85:21 86:1	preparing
pose 141:2	123:4	practicing	56:10 255:25
149:5 149:15	151:4 162:22	84:21	prescriptive
149:20	164:1	practitioner	98:16 209:18
position	189:4 223:12	258:8	211:20
10:21 11:6	post 255:23	precedence	212:12
11:8 11:12	posted 33:3	49:13 143:17	212:16 213:4
35:21 43:9	34:17 36:5	144:1	220:8
64:17	264:9	precedent	presence 6:15
99:10	posts 79:13	148:4 148:5	present
102:1 105:13	potable 75:17	predetermined	8:15 10:4
109:12 110:4	potential	134:4	11:6 17:4
110:12	152:13	predicated	17:13
130:20 140:7	152:18	209:3	17:14 18:2
159:20	152:25	predictive	18:3 18:5
160:22	172:25	62:12	18:21
183:11 187:5	potentially	predictor	18:22
194:20 195:6	63:21 91:2	76:14	18:25 19:2
198:23	141:24	preemptive	19:6 19:7
210:16	169:15	82:6	19:9 19:11
214:21	poultry 82:21	preface 10:16	19:11
217:21 233:9	power 30:7	prefer 236:3	19:12
234:17	96:12	preferred	19:16
240:13 241:1	99:15	237:25	19:17
241:3 247:20	99:19	preliminary	19:18
253:8 254:17	99:25	196:11	19:19
265:22 267:7	100:6 100:21	196:17	19:20
positions	PPE 54:2	prematurely	19:21
264:7	56:18	105:3	19:22
positive 43:5	practical	premises 18:4	19:23 20:8
62:16 154:12	255:16	19:3 19:22	20:10
positives	255:18 256:2	23:15 26:22	20:11
176:12	practicality	preparedness	20:12
possibility	197:2		20:14 20:17
177:11 187:2			
possible			

20:17	28:6 28:7	presenting	271:24
20:19 21:5	28:8 28:10	174:10	pressures
21:6 21:8	28:20	preserve	119:14 124:4
21:19	28:22	147:8 198:10	pre-technical
21:20	28:23 29:1	president	35:21
21:21	29:4 29:6	54:25 237:12	pretty
21:23 22:7	29:15	presiding	73:19
22:10	29:18	6:12 8:20	73:25 103:12
22:11	29:19 30:6	9:25 10:23	189:2 205:7
22:14	30:7 30:12	11:17	prevent
22:23	30:16	11:18 12:2	72:1 90:17
22:24 23:1	30:17	12:5 12:9	171:9 187:14
23:2 23:6	30:18 31:7	32:6 33:18	preventative
23:7 23:9	31:23	33:22	62:12 82:3
23:11	33:23 38:6	39:14	preventing
23:12	59:18	49:25	85:13
23:13	94:18 102:21	95:21 191:16	prevention
23:15	127:8	206:3 206:11	41:4 71:22
23:17	136:6	217:11 223:7	89:11
23:20	181:2	225:8	prevents
23:21	192:7	251:7 251:21	129:16
23:23	207:4 210:15	280:15	previous 78:5
23:25	231:20	press	106:9
24:11	presentation	216:22 226:4	139:6
24:14	10:9 33:5	226:7	183:2
24:14	44:14	226:9 229:17	183:4
24:25 25:2	presentations	229:19	183:8 198:24
25:5 25:18	12:14	238:23	237:1
25:19	presented	250:18	237:1
25:20 26:6	10:19	263:11	243:8 246:22
26:7 26:17	14:24 15:4	263:13	277:22
26:19	32:16	279:22	previously
26:20	38:17	279:24	46:13 79:8
26:22	59:23	pressure 75:5	97:16 103:10
26:24 27:1	94:25	102:13	104:2 117:21
27:2 27:4	100:2 127:12	109:22	122:3 236:21
27:5 27:6	136:11 181:8	115:12	278:24
27:8 27:8	192:17	116:13	prices 166:16
27:10	207:10	119:19 123:3	
27:23	230:20 245:9	123:8 163:23	
27:24	268:1		
27:25 28:4			

primarily 5:8 90:17 208:23 266:21	41:14 42:15 54:4 56:2 56:24	195:19 196:20 197:3 198:3	5:21 7:11 8:2 9:13 11:14 14:8 14:8 14:12 15:2 17:18 18:13 20:22 22:1 22:17 25:11 25:23 26:10 27:15 28:13 29:9 33:11 33:13 34:24 41:19 41:21 43:22 46:21 54:16 121:25 138:2 159:25 195:3 208:24 210:24 218:4 233:19 234:16 241:23 248:5 252:3 253:17 259:4 260:7 260:8
primary 51:4 56:20 89:24 156:7 172:12 255:21 269:13	privilege 10:13 211:5 234:1 242:5 248:17 253:24	proceed 10:3 20:24 32:6 34:9 39:8 40:5 40:7 43:23 60:15 61:5 95:17 96:2 127:5 128:5 128:18 135:22 135:24 137:2 137:18 157:7 158:12 159:4 181:23 182:18 190:6 192:1 193:8 193:18 200:19 201:9 205:3 206:15 206:21 208:1 208:15 217:7 227:11 230:11 231:17 232:9 239:19 240:9 244:22 245:12 245:21 251:4 251:20 263:21 264:10 264:12 264:14 265:4 265:4	
principal 55:3 122:18	privileged 8:13		
principals 57:23 57:23	proactively 150:25		
principle 46:9	probably 80:21 145:1 151:7 186:24		
printed 265:13			
printing 241:7	problem 48:1 54:11 80:15 85:24 164:3 168:22 170:14 176:19 274:17		
prior 5:17 6:25 7:6 7:11 7:25 8:7 9:9 9:23 35:5 36:23 102:24 139:15 139:22 148:13 194:5 211:24 277:10	problematic 149:21		
prioritizing 172:16	problems 72:5 76:24 88:19 108:15 108:22 167:19 169:2 169:7 177:12		
Prism 81:2 81:4 88:1 88:2 88:4 88:6	procedures 34:4 47:2 47:6 47:11 52:8 52:20 171:9 195:10 195:15		
private 21:18 28:7 40:19 41:13		proceedings 7:2 process 5:9 5:14 5:17	processed 32:17 processes 187:13 processing 5:10 19:8 21:7 produce 209:1 produced 82:21 123:3

producers 70:3 77:12 84:19 86:20 89:10	program 15:19 31:5 70:24 164:14 195:11	properties 134:3	242:9 265:10 266:19
produces 169:12	progress 47:17 69:13 90:1 167:11	property 18:2 18:20 22:25 24:11 25:7 26:16 77:16 207:9	proposing 97:14 219:1
product 76:13 197:24 197:25 214:13	prohibited 34:21	proponent 276:3	proposition 149:6 149:14
production 76:18 76:20 76:21 77:1	project 15:1 15:16 45:2 261:6 271:4 271:8	proponents 69:12 112:2	protect 149:11 150:3 170:22 171:11 171:12 177:7 220:12 267:19 271:5 273:12
products 169:14	projections 76:23	proposals 120:6 211:10 218:14 240:14 248:22 254:3	protected 102:19 267:24
product's 198:4	promise 227:12	proposed 41:21 44:4 51:19 61:20 63:4 63:9 68:19 74:20 85:1 85:17 97:17 99:24 120:10 120:11 130:25 139:14 146:10 149:2 198:1 211:19 219:25 249:20 258:14 277:14	protecting 90:14
Products 121:1	promote 52:2 52:18 55:7 55:11		protection 18:1 18:20 19:8 20:13 21:3 21:4 22:25 23:5 24:10 25:7 25:17 26:14 26:16 26:19 26:22 28:1 28:5 29:5 29:16 29:17 31:17 65:5 65:18 65:20 67:1 67:7 68:18 73:4 75:7 79:19 82:9 83:20 92:6
profession 52:11 57:20	promotes 51:11		
professional 22:7 31:1 31:6 55:7 55:15 57:21 91:24 210:9 272:9 275:9	promoting 15:15 51:7		
professionals 58:9 111:10 119:3 276:11	proof 112:11 154:11		
proficiently 166:10	proper 12:10 12:11 54:2 61:23 155:13 172:13		
profitability 76:14	properly 36:25 160:15 172:19 174:21 177:3 249:8 267:18	proposes 99:13 234:5	

94:16	43:3	161:20	31:3 34:13
94:24 95:6	prove 83:21	169:16 184:9	39:20 40:1
95:11	143:20	187:23 214:7	40:19 41:5
95:15 98:3	proven 171:22	258:12	41:9 41:13
101:12 106:2	178:15	266:12	41:14
107:8 109:14	220:14	267:11	41:25
111:16 121:1	provide	267:16 279:2	42:15 44:1
127:17 150:4	8:24 9:18	provides	44:6 44:7
181:1 195:11	46:2 51:22	42:25	51:10
197:3	53:16	47:13	52:17 54:5
207:9	55:12	83:17	54:20 56:2
209:3	55:19	101:9 164:15	56:8 56:23
214:7 215:11	55:25 56:4	196:22	57:4 57:24
221:20	56:23	providing 8:6	58:22
224:22 228:8	61:22 73:4	35:4 51:12	64:20
246:2	73:16 82:9	58:9 98:3	65:12
246:7 248:12	100:13	98:23	65:19
248:19 249:2	100:21	101:7 109:15	74:11
252:16	104:20 107:3	166:22	95:23
270:24 271:3	107:7	252:23	97:10
271:7 271:10	124:5	proving	98:18
273:6	139:8 140:18	142:19	99:13 104:18
protections	142:9 143:14	provision	123:17 126:6
84:2	149:12	78:21 139:24	130:23 138:3
protective	150:14 156:9	161:4	138:3
18:4 19:2	162:9 169:13	provisional	138:6 141:13
191:22	171:17 196:2	16:14	161:17 184:6
192:12	197:8	provisions	193:12
192:13	198:6	152:13	193:14 194:2
197:18	209:8	196:11	196:6
protectives	221:3 242:25	196:13	200:3 211:19
136:4 136:11	250:2 254:11	267:16	218:21 219:1
136:25 181:8	254:18 255:8	proximity	248:22 249:4
181:21	261:18	98:1	250:7 250:15
protocols	262:11 267:4	191:22	266:5 278:22
90:14	268:7 271:2	192:14	publication
90:19	provided	PSI 124:4	35:14
90:24 91:3	36:20 40:9	public	40:18
196:1	65:6 84:3	24:13 31:3	42:22 48:9
proud 19:14	98:21		publications
	120:9 131:12		7:21

publicly 33:3	100:22 101:2	117:21 118:2	purposes 6:20
published	101:16	118:5	33:23 35:4
5:25 7:23	101:24	118:6 118:10	70:10 256:17
10:2 35:18	102:10	118:21	pursue 6:16
38:20	102:14	119:12 121:2	51:24 135:15
52:10 67:6	103:13	121:14	201:22
95:3	103:18	121:22	201:25
115:21	103:19	122:22 123:3	205:11
127:15	103:20	124:3 124:6	239:11
136:14	103:23	pumps 75:4	239:16
181:11	104:24	94:16	pursued 202:5
192:21	104:25 105:4	94:23	202:15 203:2
206:23	105:10	94:24 95:6	203:15 204:3
207:13	105:21 106:2	95:11	204:16
230:24 273:7	107:4 108:17	95:15	205:16
publishing	109:9 109:25	96:14	pursuing
48:15 57:13	110:2	102:1 102:19	245:3 245:7
PUCHOVSKY	110:6 110:11	103:11	purview
94:19 99:11	111:3 111:21	103:15	194:23
Puerto 74:16	112:1	103:16	210:19
pull 125:17	112:7 112:10	103:17	217:24
pulling 96:10	112:19	106:11	233:12
pump 96:8	113:12	106:12 108:9	241:16
96:10	113:24	108:11	246:21
96:12	113:24 114:3	108:14	247:23
96:21	114:5	108:24	253:11 261:9
96:23	114:9 114:11	109:23	266:7
96:25	114:12	111:11 112:8	push 115:19
97:19	114:25	113:14 114:9	238:21
97:22 98:2	115:10	115:10 116:3	247:16
98:7 98:15	115:12	119:2 119:17	250:16
98:23 99:3	115:15	119:20	256:19
99:15	115:16	122:18	276:17
99:16	115:20	122:23 123:7	279:20
99:20	115:22 116:5	123:12	puts 129:18
99:25	116:14	pump 's	246:2
100:4	116:16	96:18	putting 57:11
100:6	116:19	101:8 102:8	61:17 124:19
100:8	116:21	purpose 8:6	139:2 146:10
100:9 100:22	116:22 117:7	45:10	151:20 165:8
	117:15	56:20 70:8	
	117:19		

189:10 245:8 246:9 272:4 <hr/> Q <hr/> QR 9:6 qualification s 22:7 31:1 31:6 55:15 168:25 qualified 41:2 195:17 232:15 232:18 232:23 234:7 234:11 234:14 234:18 235:20 235:21 237:24 quality 47:4 51:7 52:14 70:9 168:23 169:13 quantifiable 124:24 212:8 213:3 Quest 54:25 question 9:12 9:23 37:1 92:6 92:15 92:23 125:9 125:12 125:19 125:20 125:24 146:4 150:16 157:2 157:5	157:8 157:13 157:19 157:19 179:5 179:7 179:14 180:7 185:12 190:2 190:5 190:7 190:9 190:11 190:17 199:6 199:9 271:23 271:24 questioned 64:25 questions 271:17 question's 93:8 quick 82:19 167:6 178:4 178:12 188:9 273:24 quickly 67:22 89:1 123:4 206:18 quietly 34:15 quite 53:24 106:20 209:11 272:3 Quiter 13:21 13:24 16:15 17:16 19:25 20:20 21:10 21:24 22:15 24:1	24:17 25:9 25:21 26:8 27:13 28:11 29:7 29:20 32:1 quorum 6:24 7:2 7:6 7:11 33:22 quote 70:15 70:18 70:22 70:25 79:2 <hr/> R <hr/> rack 255:19 262:9 radio 218:16 218:22 219:2 219:4 219:7 219:11 219:14 220:1 220:7 221:12 221:15 221:24 224:17 225:3 225:4 227:22 rail 23:14 raise 237:22 raised 98:4 raising 76:11 Raleigh 26:3 ran 168:17 ranchers 74:18 76:4 76:24 77:4 Randy 22:2 22:2 22:4	22:15 38:6 38:8 38:10 39:7 43:8 43:11 43:13 45:22 57:5 57:7 rapid 105:7 rapidly 146:15 rare 143:1 143:10 144:16 154:11 rate 104:5 105:21 rated 96:18 99:16 99:21 100:1 100:22 101:8 102:3 102:14 104:25 110:13 111:4 114:10 114:11 116:6 116:24 117:17 117:20 117:22 123:6 123:11 154:8 rather 65:17 141:25 152:20 197:24 246:8 247:14 259:21 rating 96:8 97:4 97:15 104:22
--	--	--	---

105:24 112:7	256:13 257:8	76:17	133:17 200:6
129:13	264:12	received 25:8	200:9 200:14
129:14	268:17 269:4	31:24	200:15
132:19	269:8	65:21	228:10
ratings	realm 272:7	184:6 219:1	recommendatio
106:16	realty 150:18	receiving	n 7:8 131:13
115:25	rear 36:14	17:14 30:2	271:2 271:13
133:12	reason 55:6	recent 257:19	272:4
Ray 242:22	66:17 69:7	recently 88:2	recommendatio
Raymond	83:22	recess	ns 8:4 8:7
233:23	90:13	127:1 206:12	35:1 35:4
233:24	98:21 143:13	recipient	61:22 65:7
233:25 242:3	144:4	14:20 17:6	65:8 65:11
242:4	220:3	18:14	88:2 89:11
Reading	256:4 256:18	24:19	102:22 196:7
133:24	274:12	25:24 28:14	271:10
readjourn	reasonable	recipients	278:21
206:7 206:8	73:1 79:15	29:23 32:2	recommended
reads 117:13	88:16 97:1	recognition	12:17
ready 37:4	97:19 99:6	15:22 17:1	12:21 184:23
37:16 38:3	101:9	recognize	216:24
92:18	107:8 116:25	10:1 14:16	222:15
136:6 215:24	169:22	14:24 85:5	222:17
250:22 251:4	reasons 45:20	90:7 261:16	recommending
real 78:22	48:13	recognized	88:5 273:8
178:4 178:12	52:12	15:12	recommends
reality	55:10 63:5	51:14 131:24	212:11
75:3 151:6	64:10	177:6 219:10	reconsider
168:8 275:11	69:20	279:3	44:8
really	90:11 107:10	recognizes	reconvene
77:17	124:17	44:19	206:8 206:9
106:5 106:20	269:13	45:16	record 8:10
106:22	278:24	65:24 87:3	10:6 35:20
111:19 119:3	reassuring	recognizing	59:4 76:22
119:12	121:21	14:20 260:24	83:7 94:4
151:16	Rebecca 66:5	recommend	126:12
151:19	rebuttal	58:25 59:3	128:23 135:3
189:11 215:4	98:18	79:21 89:5	157:15
243:10	receipts		179:16 180:5

189:13	196:18	49:19 139:11	70:18
199:19	reductions	259:8 273:11	70:20 70:24
200:10	209:12	277:13	rehabilitatio
216:25	209:13	regarding	n 160:16
220:14	re-evaluate	46:23 49:6	Reidy
222:18	119:18	70:6 102:3	201:12
226:10	refer 12:19	198:24 277:7	201:13
238:24	62:9	277:21	201:23 202:2
244:16	194:12	regardless	202:10
250:21	249:21	8:20	rein 151:15
258:12	reference	113:15	reinstate
263:14	192:5 206:24	254:16	265:10
279:25	223:18	regards 49:4	reinstating
recording	224:13	registered	240:14
34:21	234:12	8:14 36:15	Reiswig
recover 16:1	266:22	registration	32:6 32:9
recovery	referenced	6:18 8:17	reject
15:21 16:13	41:15	regs 5:8 5:12	60:23
rectangular	64:24	7:9 7:13	98:25
259:5	126:8 134:25	7:18	105:9 128:10
red 11:3	references	regular	128:13
180:4	131:10 227:2	82:8 91:2	134:12
191:2 216:24	227:19	146:7 172:17	134:22 137:7
222:17	referencing	regularly	137:11
238:23	277:17	131:25	157:22
244:15	referred	regulation	158:19
276:17	173:25	70:5 71:2	158:23
redrafting	referring	71:12 72:9	179:23 182:2
44:3	277:18	135:23	182:6
reduce 52:3	refers 194:16	197:24	182:9 190:20
189:7	reflect 11:9	regulations	198:16
189:8 212:1	reflected	5:7 11:5	211:10
reduced 100:7	158:5	32:25	214:17
reduces 209:7	refresh	35:16 60:4	214:24 216:8
reducing	229:10	84:23 202:16	216:18
14:11 90:6	229:11	203:3 203:16	217:14
reduction	regard 41:24	204:4 204:17	218:14
100:3 196:11		231:6 264:2	218:15 222:3
		regulatory	222:11
			223:17 224:5

224:12 227:1	158:24	relocating	168:25
227:18	166:25	161:24	172:20
229:15 232:1	179:24 182:3	184:13	174:14
233:2	182:7 190:21	rely 52:7	174:16
234:5	223:19	54:7 79:6	174:17
235:3	224:14 227:4	Relying	178:10
238:6 238:17	227:19 234:9	172:20	178:16 183:5
240:1	251:13 254:4	remain 252:24	183:19
240:4	255:24 263:8	265:12	183:24
242:9	relates 216:2	remaining	184:10
244:1	242:1 248:12	11:21 30:1	184:14
244:9 246:11	253:20	264:10	184:16
246:14 249:4	relating	remains 69:15	185:22
249:10	43:18	167:6 196:9	187:23 188:1
251:12 254:3	76:16 262:20	remarks 10:16	188:14
262:19 263:7	266:21	11:24 33:9	remotely
264:20	relation	remember	167:23
264:23	39:22	33:10	174:13
266:19	relations	34:18	remotest
278:13	209:8	88:25	87:19
279:18	relationships	197:8 209:25	removal
rejected	163:24	remind	221:12
64:20	release 52:16	10:23	remove 131:19
98:19	211:21	33:25	194:3
98:19	released	83:16 147:16	198:2 234:13
99:24 118:11	58:15 75:19	236:18	236:19 252:4
161:19 184:8	relevant	remote	removed
278:23	152:24	19:11	135:18 201:6
rejection	reliability	23:16 159:14	202:8 202:22
98:21 198:9	105:11	159:18	203:8 203:21
relate	160:10	159:20	204:9 204:22
55:21 261:11	177:18	159:21 161:5	205:19
related 7:8	reliable 51:9	161:10	232:16
40:12 45:8	51:17 55:8	161:20	232:19
54:2 63:11	55:8 55:9	161:25 162:3	234:15
66:3 70:8	177:10	164:14	242:18 264:7
127:11	relied 171:20	166:23 167:3	removing
127:21 137:8	220:12	168:10	147:2 154:15
137:13		168:19	198:14
157:23			211:12
158:20			

rendered	136:8 136:12	67:20	185:9 197:14
161:13 184:2	136:12	76:12	219:23 220:2
reorganizatio	136:15	95:13	225:11
n 218:22	136:15	128:1 136:22	228:18
rep 85:11	136:24	181:18 193:4	231:24
150:18	141:15 158:3	207:22	232:12
repeat 173:15	161:18 181:3	231:13	235:17
replace 39:22	181:5	reporting	236:14 239:7
103:19	181:9	24:13 220:8	251:10
103:24	181:9 181:12	reports	reproducible
106:16	181:12	33:4 38:25	51:9
108:11	181:15	60:6 67:6	reputations
replacing	181:19	85:9 95:8	52:13
103:15	182:11 184:7	127:22	request
106:15	192:6	136:18 145:5	9:20 36:17
report 6:2	192:8 192:10	192:25	44:15 45:2
6:5 10:11	192:17	207:18 231:8	50:14 201:19
38:7 38:15	192:18	represent	203:5 203:18
38:18	192:21	58:1 74:10	204:6 204:19
38:18 39:5	192:22 193:6	77:11 104:14	264:4
50:20	206:25 207:3	155:6	requested
59:19	207:5	214:1 217:13	202:18
59:21	207:7 207:11	266:3	262:15
59:23	207:11	representativ	263:25
59:24	207:14	e 86:19	267:25
60:12 65:6	207:14	107:23	require
79:9 83:7	207:23 209:4	202:13 203:1	9:10 53:12
83:11	209:5 211:22	203:14 204:2	64:11 70:4
94:18	211:24	204:15	73:8 75:3
94:22	211:25 212:6	252:22	81:18 91:1
94:25 95:1	214:8	representing	140:15 161:1
95:4 95:4	224:6 230:14	62:5 70:2	171:8
95:14 97:9	230:17	74:14 100:17	178:5 183:15
127:8 127:10	230:21	101:24 117:7	226:11
127:13	230:21	123:20	254:14
127:13	230:24	144:10	required 9:21
127:16	230:25	147:14 152:9	36:21
127:16 128:2	231:14 241:7	158:17 159:8	56:15
129:2 131:13	273:6	173:6 177:25	62:22 63:3
136:6	273:9 274:6	182:1 182:20	71:24 72:7
	reported 49:2		
	60:10		

75:4 75:6	161:25 162:2	248:24 249:1	132:18
82:11	183:18	252:20	133:12
85:17	183:22	254:24	resolve
96:12 108:23	183:25 184:7	269:21	104:18
115:11	184:14	274:12	resolved
118:10 141:5	184:15	requires	96:19 211:19
154:6	186:21	51:24	resources
154:7 154:16	212:12	62:17 71:8	19:19
161:2 165:12	220:17 246:1	96:20 100:20	40:13
167:8	246:3	124:3 141:16	40:16
168:9 176:23	246:5	148:12 161:4	40:20
177:11	246:6 247:12	183:18 213:6	53:18
183:17 254:7	249:23 252:6	requiring	152:2 156:8
254:12 260:9	252:24 253:3	50:24	respect
260:11	271:25	65:17	215:10
260:13	271:25	79:16 139:15	respectfully
261:17	277:18	167:9	66:5
requirement	requirements	188:1 235:20	201:19
40:17	40:21 45:1	257:6	268:15 276:2
55:18	48:6 55:11	rescue	respectively
61:20 62:6	55:20 56:4	22:12	32:19
62:13	56:15	39:17 48:22	respiratory
65:13	56:19	research 67:8	195:11 197:3
68:19	58:10	85:3 87:6	197:17
68:25	61:18 65:4	91:10	respond 173:7
71:17 72:5	65:5 65:12	91:18 106:24	173:12 212:4
72:19	71:15 102:12	108:21 209:3	responder
73:17	109:21	209:21 214:7	121:16
73:20	130:25 131:6	215:12	responders
75:24 78:6	131:10	215:20 216:3	22:8 144:2
78:18	131:22	271:4	146:12 147:5
82:16	139:14	273:6 276:14	169:24
83:17	140:12	researchers	172:23
83:19 97:4	145:13	91:9	responding
101:7	152:18 198:3	residential	121:20 138:6
101:9 105:22	198:5	28:9 81:10	response
106:13	219:6	85:20 210:4	15:14
131:16	220:9 220:11	resistance	15:19 16:9
140:15 146:9	220:15	129:12	
147:2	220:18	129:14	
161:8 161:11	224:17		
161:18	227:23 247:3		

23:19	restate 58:20	127:22 135:7	124:23
31:22	126:3 157:20	136:19 158:8	124:23 131:4
40:10 68:1	179:21	181:16 193:1	131:5 232:23
97:11 97:18	190:19 200:1	195:8 199:23	248:8 268:2
responsibilit	216:17	200:13	reviewed 6:21
ies 194:22	222:10	207:19 211:9	130:23 131:8
210:18	229:13 235:2	218:13 231:8	141:13
217:23	238:16 244:8	234:4	194:24 196:6
233:11	250:13 263:6	242:8 244:20	210:20
241:15	279:17	248:21 254:2	211:23
247:22 253:9	restores	274:5 279:4	215:19
266:6	223:17	retain 134:2	217:25
responsibilit	224:13 227:2	retained	218:25
y 16:13	result	241:9	233:13
139:2 152:20	57:14 64:4	retired	241:17
261:13	69:18	56:8 89:17	247:24
261:14	83:10	retrofit	253:11 266:8
261:18	91:18 170:11	106:10	reviewing
261:21 279:5	214:12	110:17	249:16
279:12	resulted	return 7:10	revise 65:7
responsible	47:12	78:11 137:25	97:3
10:11	47:14 65:8	139:21	revised 14:14
38:24 60:3	97:8 195:3	211:11	99:19 212:15
95:8 108:8	210:23 218:3	220:20	234:10
127:20	233:17	returned	revising 65:9
136:18	241:21 248:3	78:12 80:7	234:17
139:25	253:15	reunification	revision
156:18	resulting	15:23	6:8 32:18
181:15	8:11 35:22	revenues	38:19
192:25	63:21 64:7	76:25	39:20 44:2
195:21	results	reverse	60:2 60:23
207:18 211:2	7:21 7:22	167:11	65:17
218:7	8:5 12:3	revert 232:1	65:21 85:6
231:4 233:21	33:2 35:3	review 33:2	86:23 87:2
241:25	35:15	33:6 41:5	95:1 96:16
248:11	35:17	47:10 58:7	98:6 99:24
253:20	38:25 51:8	65:3 66:2	102:22
257:11 266:2	60:6 94:8	102:12	104:23
272:8	95:9 126:16	120:13	127:14
rest 191:18			128:11

128:14	229:15 234:6	194:25 195:2	157:1 228:20
131:16	234:10 235:3	207:15	260:3
131:18	238:6 238:18	207:17	risk 19:17
131:21	240:1	210:20	28:17
134:13	240:5 241:17	210:22	61:10
134:23 137:7	242:9	217:25 231:1	61:16
137:12	244:1 244:10	231:3 233:13	62:14
137:13 138:2	247:8 249:11	233:16	62:21
140:11	251:12 254:4	241:20	73:25
140:14	254:5 262:19	247:24 248:3	87:11
140:17	263:8 264:21	251:13	97:23 140:20
141:11	264:24	251:14	141:3
141:14 142:3	265:25	253:12	141:4 146:12
157:23	266:15	253:14 254:5	149:5 149:15
157:24	266:20	262:20	149:21
158:20	278:14	262:21 263:9	152:13
158:23	279:19	263:9 266:8	156:19
159:15	revisions	rewards	172:25
160:25	38:21	105:23	176:11
161:15	38:23	Rhode 17:10	risking 63:15
161:24 162:4	65:10 95:5	Richmond	risks 63:19
179:24 182:2	95:7 99:15	86:16	77:19 90:2
182:6	127:17	Rick 192:7	91:5 91:11
182:8	127:19	192:9	91:12 171:18
182:8	131:14	193:7 194:19	Rita 72:13
182:9 183:15	136:16	194:21	72:13 80:2
184:4 184:13	136:17 137:8	Rico 74:16	80:3
184:18	137:9 137:14	rid 243:16	robotic 274:3
190:21	138:4 157:25	243:17	Rodger 32:5
192:19	158:21	rights 9:16	32:9 33:20
207:12	158:21	36:11	Roland
208:17	158:24	61:25 78:22	243:3
208:21 209:6	158:25	Rinaldi 39:14	243:4 268:10
209:6 211:11	179:25	39:16 40:8	268:11
214:5 214:24	179:25	44:1 48:21	277:23
216:8 216:19	181:13	48:21 48:25	role 15:12
217:15 218:2	181:14 182:3	Rinaldi's	77:15 77:17
220:4	182:4 190:22	52:23	room 6:18
222:3 222:12	190:23	rise 54:14	8:18 9:6 9:6
223:17 224:5	192:22		
224:13 227:1	192:24		
227:18	194:24		

9:19 13:7	ruling 147:22	22:10 23:1	177:18
34:16	run 47:14	23:4 24:22	189:12
36:14	63:21	25:16	191:25
36:19 89:9	97:23	26:24	192:16
163:7 165:25	100:8 108:15	33:25 34:2	193:21
166:21 169:5	112:9	34:4 53:23	196:20
170:13	112:9 113:12	56:16	196:22 197:1
172:21 241:4	132:18	59:17	198:23
rooms 88:11	156:11	59:25	205:10
88:12	160:11 176:3	60:12	214:13 262:1
route 34:17	209:13	62:12	SARS 196:4
routinely	running	72:17	sat 273:1
164:18	98:2 121:22	79:18 81:7	satisfied
Ruke 142:13	ruptures	84:20	196:9
142:13	97:21	84:22 85:5	satisfy
153:23	rural 28:1	85:7 87:11	145:15
153:23 168:3	70:14 75:1	97:14	save 89:3
168:3	89:19 89:22	98:10 101:14	189:13
188:7 188:7		101:16	saves 166:2
rule 81:24	<hr/> <u>S</u> <hr/>	105:11 107:3	saving 65:2
123:2 123:10	Sadly 163:16	122:7	85:22 96:25
155:18	safe 34:3	141:4	saw 142:18
rules 5:7	81:6 86:5	142:1 142:19	scale 69:15
5:20 5:21	138:20	144:3	75:10
6:15 63:11	155:19	146:8 146:11	SCAM 194:13
70:8 71:3	155:22 166:5	147:4	Scandaliato
82:22	170:12	149:8	258:6
120:5 120:16	safely	150:3	258:7 258:16
135:23 201:4	45:23	153:1	258:19
202:6 202:17	56:23 155:16	165:6	273:21
202:20 203:4	156:4	166:1	273:22
203:7 203:17	205:7 223:12	166:7 166:13	scare 163:4
203:20 204:5	safer 123:13	166:18	scary 149:6
204:8 204:18	safety	166:24	149:14
204:21	14:11	167:11	SCBA 194:15
205:18	14:15	167:16	SCBAs
239:17 264:3	18:22 19:6	171:13	193:22 194:8
274:19	20:15 21:15	171:17	
274:19		171:25	
rule's 122:21		172:12	
		172:15	
		172:22	

194:13	50:20 50:21	200:9 200:14	65:10
scenario	Scientific	200:16	65:17
124:5	45:3 50:15	216:22	65:17
scenarios	SCK 87:11	216:24	65:21
121:18	scope 45:18	222:17	65:25 78:8
121:20	138:11	238:21	83:16
121:23	241:15	238:23	87:15 92:7
Schecter 53:5	272:10	screw 175:23	92:9 92:10
53:6 53:10	scopes 194:22	script 20:1	95:1 95:4
schedule	210:18	225:18	95:24
6:7 45:25	217:23	scroll	95:25 96:1
scheme 271:11	233:11	36:25	96:7 99:23
schemes	247:22	92:20 179:12	116:9 116:11
270:24 271:7	253:10 266:6	199:14	116:21
Schilling	score 166:15	sealed 90:6	116:23 120:7
74:9 74:10	Scott	Sean 261:25	125:10
Schneider	193:21	261:25	125:13
231:22	198:22 205:9	seasons 81:12	125:14
231:23	screen	seats 81:12	127:13
232:10	11:22	seat 67:2	127:16
232:11	12:15	seated 8:18	128:11
236:10	12:17	seats 13:15	128:14
236:12	12:21	13:17	128:15
236:14 239:6	12:23 13:2	127:3	128:16
239:7	13:5 13:5	127:4 206:14	128:17
Schwab	58:25 59:3	Seattle	129:17
27:16	94:1 94:3	22:5 22:5	131:11
27:18	125:16 126:8	163:16	131:13
103:6	126:10	second	131:15
103:7 272:16	134:20	38:18	131:18
272:17	134:25 154:1	38:21	131:21
science 40:12	158:4	39:20 40:2	134:12
45:8 48:5	158:5	40:3 40:4	134:23
50:24 51:2	180:3	44:12	136:12
51:6 62:2	180:3	46:11 55:5	136:15 137:7
85:2	180:4	59:24	137:12
sciences	180:4	60:23	137:15
50:16 50:19	191:1	60:25 61:1	137:16
	191:3 200:6	61:2 61:3	137:17 139:8
		61:4 63:14	141:12
			141:14 142:3
			157:3 157:23

157:24	219:15 220:4	251:17	7:17 11:6
158:20	222:3 222:12	251:19 254:3	11:8 11:9
158:23 159:1	223:17	254:8 254:22	11:12
159:2	223:20	262:19 263:7	35:15 104:21
159:3 159:24	223:20	264:20	106:20
161:23	223:22	264:24	107:22
161:24 162:4	223:23	264:25 265:1	107:24 108:1
179:9 179:10	223:23	265:3 265:24	117:12
179:24 181:9	223:25 224:1	266:19 267:9	144:10
181:12 182:2	224:3	270:11 273:6	144:12
182:6	224:5	274:6 275:20	144:13
182:8	224:6	277:1 277:11	144:24
182:9 182:14	224:8 224:13	278:13	144:25
182:15	226:25 227:1	279:18	177:25 185:9
182:17	227:5	Secondly 82:1	208:16 211:2
184:12	227:7	seconds	211:12
184:13	227:8	37:7 37:20	212:15 218:1
184:18 186:2	227:9	59:5 92:11	218:7 218:16
190:3 190:21	227:9 227:17	92:18 93:1	218:23 219:2
192:18	227:18	94:5	220:1
192:22	229:15	125:15	220:4 220:20
193:15	230:21	125:22	225:4 232:22
193:16	230:25 232:5	126:13 135:4	234:15
193:17 199:7	232:6	157:9 157:16	234:19
199:10	232:7 232:15	158:7 179:11	235:17
199:11	232:24 234:5	179:17	240:19
199:12	234:10	180:13	242:15
207:11	234:15 235:3	190:13 191:4	243:10 249:1
207:14	238:6 238:18	199:20	252:4 254:10
208:13	240:1	200:11 217:1	254:23
208:14	240:5	217:18	265:10
208:17	240:6	222:20	265:15
211:10	240:7	226:13	275:12
211:15	240:8	229:20	sections 11:6
211:24	242:9	238:25	65:9 98:5
212:14 214:5	244:1	244:17	104:22
214:24 216:8	244:9	250:23	sector 41:9
216:19	245:5 245:19	263:15 280:1	41:25 54:4
217:14	245:20 247:7	secretary	57:24
217:16	247:8	14:4 35:8	sectors 41:14
217:18	249:3 251:12	section 7:9	41:14
218:17	251:16		

security 19:22 23:16 27:3 63:18 73:24 90:14 90:16 90:24	select 36:25 selected 100:21 114:12 selection 194:8 194:11 194:17 self 191:23 self- contained 192:15 self-preserve 170:20 semiannual 145:6 semiconductor 127:11 127:18 127:21 131:25 seminar 175:17 send 108:20 senior 66:23 sense 62:3 167:1 197:22 sensibilities 166:14 sensitivity 174:15 sensor 168:25 sensors 172:20 174:1 separate 65:12 sequence	256:3 series 34:12 130:7 serious 82:17 111:19 149:1 259:7 serve 13:25 101:18 218:9 280:14 served 14:4 28:2 30:20 31:7 31:8 89:20 120:17 serves 17:10 17:24 18:18 19:4 20:7 20:15 21:3 22:6 22:22 23:3 23:10 23:18 24:9 24:23 25:5 25:15 26:3 26:15 26:17 27:20 28:19 29:2 29:14 30:5 30:10 30:14 30:25 31:11 31:21 51:10 196:25 service 16:22 16:23 16:25 17:2 17:7 17:17 17:19	18:12 18:15 20:2 20:21 21:11 21:25 22:10 22:16 23:5 24:2 24:18 25:10 25:22 26:9 27:14 27:21 28:12 29:8 29:22 29:25 55:21 56:8 111:24 117:18 118:4 148:14 148:17 193:22 197:21 219:5 219:12 220:5 257:8 services 20:6 30:10 51:12 190:2 191:25 192:11 192:16 serving 15:17 18:2 22:11 25:2 26:6 29:17 30:7 211:5 234:1 242:5 248:17 253:24 session 5:21 7:2 9:3 9:16 9:25
--	---	--	---

10:25	sharply 106:3	189:17 246:4	14:24
33:18 36:2	Sheet	shown 158:3	63:18
36:11	145:25 172:7	161:18 184:7	76:10
158:3 264:7	shell	shows 82:19	141:3
sessions 33:5	255:21 262:4	shutters	149:5 149:15
280:16	262:7	177:2	149:21
sets 49:7	Sheppard 50:5	Siemens 22:21	significantly
143:25	50:6 50:10	SIG/IDS	90:6
setting 56:19	50:13 53:1	215:15	signifies
83:14	She's 30:11	sign 6:14	49:5
89:25 143:18	31:1	signaling	signs 9:5
148:5	shield 278:7	18:1 18:3	11:3
settings	shielded	18:5 18:10	similar 47:18
73:22 90:12	269:10	18:19	86:23 116:19
seven 72:17	269:14	18:23	201:14
103:19	269:17	18:24 19:3	254:12
103:23	277:25	20:11	simple 137:24
161:17	shooter 15:18	22:24	166:4
Seventh 64:2	shop 252:2	23:23	simply 9:2
several 29:22	252:10	23:24	49:20
67:21	252:23	24:10	71:13
68:23	255:25	24:12	71:23 75:8
157:9 197:19	258:21	24:25 25:1	133:10
258:19 274:7	258:25	25:4 25:6	137:24
274:16	260:16 261:8	26:15	142:20
shaft 154:8	short 105:6	26:22	143:13
Shane 18:15	215:3 235:9	26:23 27:6	169:18
18:17 156:25	shortcoming	27:7 31:11	174:23
156:25	71:1	31:13	245:25
213:15	shorting	31:17	268:19 269:8
213:16 221:7	117:25	31:18 206:20	sincere 32:4
221:8	shortly 13:16	207:8 207:10	Sing 54:24
225:8 225:10	45:25	207:16	54:25
228:16	showed 49:3	207:21	single
228:17	168:19	207:24	14:25
Shanks 30:19	shower 90:22	210:24 211:7	68:12
share 13:12	showing 169:2	218:4 218:11	102:5
14:13 121:4		signed 6:19	107:8 142:19
		significant	145:10 146:3

147:17 154:7	69:6 73:15	9:17 36:16	171:11
155:18 160:2	79:10 83:8	smarter	274:14
162:19	83:14	167:11	solutions
sir 32:8	101:7 101:17	Smith 42:10	77:19 81:2
43:11 57:7	111:11	42:11	81:5
104:13	111:18	42:18	144:10
216:12	111:18 112:4	42:21 253:21	166:22
217:22 222:7	112:20	253:23 255:5	177:25 185:8
225:23 228:2	112:20 118:9	smoke 31:13	235:17
229:3	123:1 143:5	64:5 69:19	256:10
244:5 250:10	sized 96:9	82:4 82:5	solve 85:24
sit 275:24	100:4 101:18	88:3 88:6	somebody
site 67:22	sizes 116:2	165:11 169:1	56:18
67:24	124:1	174:1 174:15	148:4 156:18
81:23 124:22	sizing	175:20	160:10
264:8	100:4	176:13 177:8	173:21
sitting 124:4	101:2 103:11	178:23	somebody's
situation	104:24	180:25 181:7	174:23
49:7 72:23	106:17	181:20	someone 80:14
72:24	111:14 116:7	182:23	124:23
104:6 116:16	119:11 120:5	182:25	149:23
122:1 144:16	120:16	211:20	168:17 205:6
152:17	123:25	211:22 212:1	258:13 260:6
277:24	Skalko	212:6 212:10	sorry 42:18
situations	133:7	212:17	80:3
102:5 121:19	133:7 133:7	212:21 213:1	123:23 132:8
175:10	skepticism	213:4	173:10 208:8
six 74:14	46:18	smoother	215:1 226:23
103:18	skills 166:9	52:19	235:4
125:25 155:8	sleeping	SMTIH 253:22	237:2 263:18
163:18	210:4	soda 189:9	sort 149:8
235:11	slightly	sole 8:6 35:4	sorts 176:4
242:20	249:19	solely 152:21	sought 65:13
275:15 276:6	slow 68:1	172:20	sound 11:22
sixth 63:25	small 73:16	solicit	34:11 51:7
76:19	73:18 78:9	218:20	216:4
size 45:17	88:21	solution 84:7	sounds 34:7
65:15	smart 9:2	85:23 89:6	South 29:14
68:25 69:5		110:15	

103:12	276:21	251:17 265:1	186:9
103:14	speaker 5:6	277:22	197:9
space 171:4	11:17	speakers 63:7	208:6
171:5	15:11 17:9	106:9	211:8 213:13
spaceports	17:22	speaking	213:17
23:16	18:17 20:5	10:14	213:19 214:3
spaces 27:8	20:25	10:18	221:4
148:8 148:10	21:14 22:4	11:19	221:9 232:14
164:4 171:3	22:20 24:6	42:16	235:8 235:18
spacing 209:7	24:21	42:18 46:3	236:17
209:11	25:14 26:1	46:7 50:3	239:24 243:5
209:12	26:13	53:3 53:7	243:7
209:15	27:18	55:1 66:12	250:3 251:24
209:18	28:16	70:3 72:15	256:10 257:1
209:20 210:7	29:12 30:1	77:12 80:5	258:7 258:16
211:20	40:3 61:1	81:3 96:5	259:16
211:22	61:2 92:7	100:14	261:25 262:2
212:10	92:10 93:7	100:19 103:8	264:18 268:8
212:16	93:13	104:12	268:12
212:17	93:22	104:16	270:20
212:24 213:1	95:25 125:10	105:18	270:21
213:5 214:9	125:14	107:21	272:18
spacings	128:16	107:23 109:1	273:22
209:19	137:16 157:3	109:9 110:24	273:23 275:2
spanning	159:2 179:10	120:2 122:16	278:8
67:23	180:6 182:15	122:20 125:5	special 11:13
speak 11:18	190:3 193:16	128:9	13:10
46:24 50:8	199:7 199:11	132:6 132:10	14:23 15:3
50:10	208:13	133:8 135:14	16:16
66:22	217:16	137:21	16:20
74:12	222:25	142:10	17:14
74:18 80:6	223:20	142:15 146:1	19:15
175:7	223:25	148:25	19:24
195:7 218:12	225:23	150:10	23:13 25:8
234:3 237:14	226:16 227:5	152:10 153:6	31:25 264:8
242:7 248:20	227:8	153:24 155:5	specialist
254:1 255:14	228:2	162:10 165:2	31:5
259:12	229:3	170:4	specialized
268:13	229:7	173:9 173:10	166:9
270:23	232:6 235:11	178:1 185:4	species
	237:2		
	240:7 245:19		

69:6 85:25	spiblehead	72:14	264:18 265:8
specific	276:7	72:19 75:5	266:10
45:18	spill 88:21	75:10	268:12
65:15	spirit 175:22	75:20 80:4	270:20 275:1
101:9 143:22	split 49:3	81:21	sprinklered
168:24	spoke 56:18	82:16	72:7
197:23	90:3 104:2	83:21	sprinklering
197:24	146:15	86:19	63:10
197:25 198:3	spontaneous	88:20	sprinklers
198:14 210:6	89:25	88:21	17:11
219:7 252:17	spores 163:14	95:22 96:4	27:19 29:4
276:22	164:8	98:9	29:5 61:15
specifically	sports 166:16	100:17	61:20
7:17 61:11	sprawling	105:17	62:17 63:3
76:16 142:16	68:22	109:16 110:8	63:13
277:14	spray 29:3	110:24	63:17
277:14	spread	112:16	64:11
277:17	67:22	124:15	64:25
277:18	90:17 130:10	148:11	68:20
277:21	146:15 171:7	174:18 230:9	69:17 70:5
277:23 278:3	177:8	230:18	70:11 71:2
278:7	spring 79:9	230:20	71:17
specifics	sprinkler	230:24 231:2	71:24 73:9
45:14	17:12	231:11	73:10
specifies	17:13	231:15	73:21
195:21	21:17	233:18 234:2	73:24
spectrum 82:2	21:19	237:13	74:21
speed	21:20 28:3	237:21	77:14 78:7
100:22	28:3 28:6	239:23	78:23
104:25	28:9 31:15	240:12	79:16
Spencer	61:14	241:22 242:6	81:17
101:23	61:18	243:5 247:12	81:18 82:7
101:23	63:20 64:3	248:4 251:10	82:10
123:19	65:12	251:23 252:9	82:11
123:19	65:15	253:16 254:9	85:17
123:23	65:18	255:14	87:18
spend 176:10	70:21	255:16	87:24
spending	71:15 72:5	255:17	88:16
142:22		255:24	88:19
		257:21 260:2	89:12 90:8
		261:9 261:19	91:1 91:1
		261:21	

91:13	269:18	38:4 38:22	62:22
103:8	270:25	39:2 39:6	72:17
165:8 265:15	271:20	39:21	73:14
265:17	271:22	40:15	82:12
267:14	277:15	40:22	94:14
268:20	277:19	40:24 41:2	94:15
268:20 269:9	stacks	41:3 41:21	94:23 95:5
269:12	274:2 274:3	41:23 42:4	95:10
269:15	staff 34:17	42:23	95:15
269:22 270:3	34:18	42:24 43:5	96:20 100:20
271:16	36:14	43:24 44:4	100:25
271:18 272:1	36:18 38:1	44:7 44:13	101:10
272:18 275:4	78:2	44:17	102:25 116:7
275:5	staffing	44:22 45:6	127:17 130:1
278:6 279:2	40:16	45:7 45:12	130:9
sprinkling	Stafford	46:11	136:2
64:21	17:23	46:20	136:3 136:10
spurred 46:24	stage 15:10	47:17	136:24
square	17:8 17:21	48:15 49:4	160:13
68:12 86:6	18:16 20:4	49:6 49:8	173:20
86:7 86:22	21:13 22:3	49:17	180:24
155:9	22:19 24:5	50:14	180:25 181:7
Sr 30:3 65:16	24:20	51:19 52:1	181:20
226:3 229:15	25:13	52:10	187:22
233:2	25:25	52:16	191:21
stack 271:22	26:12	52:24	192:13
stacker	29:11 33:12	53:11	194:16
266:22 270:1	stages 271:9	53:11	195:12
271:19	stagnant	53:15	196:10
274:16 275:6	75:16	53:16 54:7	196:18 198:7
stackers	stake 162:17	54:13 55:1	199:1 208:16
265:18	stakeholders	55:4 55:6	211:14 214:9
267:12	44:24	55:10	230:5
267:18	58:15 84:6	55:14	230:9 230:19
267:19	stand 172:7	55:24	231:1 231:10
267:23	197:15	56:14	231:15
268:21	standard	57:13	232:21
269:10	15:18 16:6	57:17	233:18
269:11	16:14 38:3	58:10	236:20
269:16		58:11	241:22
		59:15 62:17	243:10
			243:12

243:22 247:9	43:15	stands 43:4	46:13 57:8
248:4	43:17	start 5:17	97:19
249:8 249:14	43:18 45:5	49:7 66:18	151:6 236:21
249:14 253:4	51:1 51:8	103:15	237:4
253:16	51:14 60:5	117:25	243:8 278:24
258:11	60:11	126:25 127:2	statement
259:20 266:9	82:13 85:4	129:4 178:19	64:24 73:2
267:16	85:8 95:13	206:4 206:14	79:2 93:9
268:25	100:18 128:1	207:2 228:4	96:19 100:24
272:25 274:9	131:9 131:24	started 67:20	141:19
275:23 277:2	136:23	113:9	187:25 188:2
standardizati	138:14	starting	219:18
on 50:25	138:16 148:6	13:18	232:20
standards 5:8	165:8	state 39:11	statements
5:9 5:16 6:8	171:8 181:18	39:13 42:7	10:5 10:6
6:8 7:7 7:12	193:5 195:24	48:19 50:2	35:22 198:24
7:15 8:5 8:7	196:23	54:21	states
8:8 8:9	206:10	55:20 56:8	50:17
11:13 14:4	207:22	58:1 62:25	50:21
14:7 14:14	208:24 212:7	63:15	74:16 79:2
14:22 15:1	212:25	66:12 83:2	86:13 132:24
17:3 17:17	214:14 231:7	84:14	145:25 155:8
18:12	231:13	84:23	172:6 187:10
20:21	239:25 243:6	89:14	188:12
21:25	264:19	95:19 101:21	267:17
22:13	268:13	103:3 107:14	station 18:24
22:16	280:17	108:5	25:1 31:12
25:10	standard's	113:1	218:10
25:22 26:9	196:15	115:3	218:24
27:11	Standards	117:3 118:15	stationary
27:12	13:25	121:17 132:5	94:16
27:14	standing	133:4 150:24	94:24 95:6
28:12 29:8	224:23	152:5	95:11 95:15
32:12	235:12	154:3	Statistically
32:17 33:1	standpipe	168:1	86:4
33:11	106:4 106:5	170:4	Statler 89:16
33:15 35:1	Standpipes	185:3 213:12	89:16
35:5 35:6	27:25	235:7 243:13	status 8:21
35:8 35:19	standpoint	stated 45:20	11:13
35:24 36:1	119:5 174:12		
38:16 39:4			

stay 74:4 272:7	133:7 133:7	stored 75:13	studied 216:1
STEARNNS 84:16	Steven 109:8 122:14	stories 68:7	studies 61:24 81:24 85:7
Stearns 84:16	122:14 258:6 258:7 258:16	straw 89:25	stuff 54:9 114:22
steel 90:5	258:19	streams 63:22	stunts 79:19
stellar 14:21	273:21	strength 51:5	style 43:25 242:16 247:2
Stelter 117:6 117:6	273:22	strengthen 47:20	subcommittee 41:22 50:6 51:20 52:21
stenographer 10:25	stipulates 41:7	strengthened 47:3	subcontractor 259:6
step 79:17 149:25 166:4 238:1	stock 166:16	strengthening 50:20	subject 102:21
Stephen 39:14 39:16 40:7 40:8 48:21 48:21 48:25	stop 62:7 93:1 93:4 113:24 125:22 160:19 163:20	stricken 266:23	submission 6:22 9:23 32:23 36:23 264:6
stepped 66:16	stopped 62:20 179:18	strict 90:16	submit 260:11
stepping 269:7	stopping 85:13	strike 146:9	submittal 260:10
steps 75:15	storage 75:3 75:11 98:11 251:25	strikes 154:16 154:18	submitted 35:22 38:23 44:1 44:7 50:13 60:2 62:6 66:5 95:7 96:6 96:17 97:10 98:5 127:19 136:17 173:16 181:14 192:24 207:17 231:3 278:22
Sterling 217:10 217:12 219:22 219:23 223:10 223:13 223:14 224:9 224:10 224:11 226:23 226:24 227:11 227:12 227:15	252:14 252:18 254:6 254:12 254:15 254:15 254:19 254:20 254:24 255:19 255:19 257:12 257:13 257:16 257:23 259:5 259:10 262:10	stringent 269:21	submitter
Steve 109:8		striving 40:11	
		strobe 34:8 34:11	
		strong 15:15	
		struck 266:20	
		structural 81:20 134:2 191:22 192:13 212:2	
		structure 97:25 274:2	
		structures 27:24 270:25 271:5	

44:10	267:11	215:8 261:2	109:1
44:20	279:10	superiors	109:3 110:25
99:14 198:12	Subterranean	56:2 56:13	119:21 124:5
201:13	27:8	56:14	126:8 132:10
211:11	success 13:9	supersede	133:1
218:15 237:1	successful	172:11	133:8 133:17
239:16	9:11 12:4	supervising	140:2 144:11
263:25	successfully	18:24 25:1	144:13
submitter's	64:3	31:12 218:10	145:20
120:10	suction 96:24	218:23	147:14
Submitters	102:13	supplied 81:4	148:18 152:3
120:6	109:22	suppliers	153:7 153:18
submitting	109:25	82:18	155:5
9:10	115:12 116:2	supplies 30:7	159:8 161:20
subscribes	116:7	64:22 124:2	162:14
49:10	116:8 116:13	supply	164:12
subsection	116:17	21:18 28:8	164:23
219:6	116:20	61:21	167:24 170:4
subsections	123:24	63:23 64:1	171:24 179:1
218:21	SUD 28:17	65:10	184:9
subsequent	suddenly 41:1	74:25 75:2	185:9
6:11 63:7	sufficient	96:24	187:7 187:20
137:23	53:17	96:24	188:5
237:16	suggested	102:4 103:25	189:1 189:23
substance	13:12	107:4	199:2 199:15
49:22	suggesting	112:5	200:5 200:13
substandard	64:20 278:1	112:6 123:25	208:6
41:1	suggestion	support 10:14	209:5 209:21
substantial	277:19	13:3 42:1	213:13
16:25 75:11	suggests	42:3 54:8	216:12
substantiated	146:10	54:8 58:24	219:24
271:1 271:9	269:11	61:8 80:9	220:16 221:4
substantiates	suitable 90:9	89:18	221:11
104:21	sum 171:11	91:25	221:23
substantiatio	summary 52:21	92:22	221:24
n 98:24	72:4	93:25	222:14 225:2
106:23 120:8	Summit 118:19	102:4	225:13 226:6
214:15		103:8 107:10	227:2 228:20
		108:2	229:17 233:2
			236:4
			237:6 237:15
			237:22 238:2

238:20 239:2	111:2 132:17	109:16	23:24
240:13	167:5 201:23	109:16 110:5	24:10
244:12	241:4 246:13	110:6	24:12
244:20	257:13	112:6 113:20	24:13
245:23 253:2	259:17	114:5 114:16	24:25 25:2
255:9	surface	114:22	25:4 25:6
256:4	48:7 163:2	119:13	26:5 26:16
260:3 260:19	surprising	145:10	26:22
261:3 261:25	78:25	148:11	26:23 27:1
263:11	survey 49:2	218:16 220:5	27:6 27:7
263:17 265:9	surveys 87:13	220:8	27:22 28:3
268:14	87:18 156:11	234:2	28:6 28:8
272:18	suspense	242:6 253:25	28:9 29:3
276:21 278:8	141:9	254:10	29:6 29:16
278:25	Sutton	255:17	30:4 30:6
279:21 280:7	28:14 28:16	255:20	31:12
280:21	Suzanne 14:5	257:11	31:13
supported	Swan 192:7	257:16	31:14
85:3 183:5	192:9 194:21	257:18	31:16
215:20 216:3	switches	257:21	31:17
supporters	174:18	273:12	31:18
11:2 46:19	178:14	274:11	31:19
supporting	system	systems	61:14 65:1
264:6 267:6	17:11	18:1 18:4	65:15
supports	17:12	18:5 18:7	69:17
52:23 102:11	17:13	18:9 18:10	70:22
209:6 213:20	21:19	18:19	86:15 88:8
supposed	21:20 28:4	18:23	98:9
257:17	28:6 34:10	18:25 19:3	101:12
suppression	34:14	19:10	101:18 106:4
27:22	47:13 64:3	19:15	106:8
64:21	67:25 71:5	19:23	110:8
67:25	75:5 75:10	20:10	110:9
69:17 247:10	75:12	20:12	110:9 110:10
249:15	75:20	20:13 21:4	110:10 115:7
supreme 71:11	83:21 88:3	21:17	117:7 140:25
sure 56:21	88:7 101:6	21:18	141:3
80:11 82:4	105:5 105:11	21:23	146:8
110:5	106:5 109:15	22:25	154:4
		23:13	154:5
		23:14 23:23	155:7 167:16
			169:24

172:19 174:2	taking	219:13	25:16 26:3
174:18	67:14	221:22 228:8	26:17
191:25	111:5	228:10	27:20 28:3
192:16 207:8	126:1 152:22	taught 119:1	28:20 29:2
211:7	154:22	Taylor	29:14 30:2
212:2 218:11	206:17	125:7 125:7	30:5 30:9
218:22	Talco 115:6	TC 40:9	30:11
218:24 219:3	talk 56:13	teaching	30:15
219:8 219:11	132:19 273:2	124:18	30:21 31:2
219:15	talked 167:20	155:12	31:11
220:12	talking 73:18	team 16:11	31:21 32:7
230:10	73:19 109:22	teams 166:16	32:14
230:18	112:2	tech 6:1	34:20
230:20	112:3	9:3 264:7	34:22 35:7
230:24 231:2	112:5	280:16	35:12
231:11	114:1 149:14	technical 5:1	35:14
231:15	156:1 182:23	5:11 5:25	35:18
233:18	182:25 261:7	6:10 6:24	35:23
241:22	talks 55:14	7:14 7:23	38:11
247:10 248:5	tall 215:5	7:24 8:11	38:13
248:12	tank 110:9	8:12 10:5	38:15
248:19	116:12	10:11 11:7	38:20
249:15 252:9	targeted	12:22 13:8	39:10 42:2
253:16	77:19	13:15	43:9 43:14
266:10	targeting	13:22	44:3 44:5
267:12	40:24	15:13 16:2	44:8 44:11
267:18	task 16:12	16:5 16:8	44:16
267:19	65:3 65:6	16:12	44:19
267:23	66:1 89:21	16:24	44:23 45:4
	102:11	17:11 18:3	45:16 49:1
	102:23 104:3	18:23 19:4	57:8 59:22
	104:19	20:8 20:16	60:3 64:17
	106:25 110:3	21:4 21:5	65:16 67:2
	118:12	21:17	81:4 83:23
	120:13	21:21 22:8	94:23 95:3
	120:19 131:3	23:4 23:10	96:13
	131:8 131:11	24:12	97:12
	215:18	24:23 24:25	97:13
	215:23 219:9		98:18
			98:20
			98:23 99:10
<hr/>			
T			
tab 39:1 60:7			
95:10 127:23			
136:20			
181:17 193:2			
207:20 231:9			
table 9:19			
32:24			
36:18 38:2			
227:3 227:19			
228:9 228:11			

99:18	215:14 218:6	85:5 91:13	234:11
99:22	218:10	91:15 122:15	234:14
99:23	218:17	122:17	242:13 243:8
100:2 106:23	218:19	124:15	terminate 7:3
112:23 120:9	218:25	159:13	terminology
127:11	219:16 231:4	159:16 160:3	15:20
127:15	232:2 233:21	160:18	131:3 131:12
127:20	234:1 236:23	166:11	208:18
129:23	241:25 242:5	166:14 171:9	terms 71:8
130:20	248:10	171:16	83:7 84:6
130:23 136:9	248:18	171:19	149:5
136:14 140:7	249:13	171:20	149:9 242:17
140:9 140:10	251:10	171:23	terrible 54:1
140:21 141:1	253:19	173:13	test 9:11
141:8 141:13	253:25 254:9	173:16	9:23 36:22
141:18	263:24	173:22	61:24
141:22	263:24 266:3	173:23 174:6	91:16 102:20
143:11 147:3	267:6 270:21	183:5 185:22	109:23
149:19	278:19 279:8	186:15	113:13
160:17	279:9 280:19	186:18	115:10 129:5
160:22	280:22	186:19	129:6
160:25	technically	186:25 187:5	129:8
161:12	51:7	219:4	129:9 129:11
161:19	147:17 271:9	telecommunica	129:12 130:1
161:23 181:6	technician	tions	130:4
181:11	142:22	19:16 23:11	130:5
183:11	143:12	temperature	130:8 130:10
183:14	143:19	212:3	130:12
183:14 184:1	143:20 149:3	temporary	130:16 131:9
184:8 184:12	154:10	72:21 72:23	131:24
192:20 195:4	165:11	ten 91:23	132:12
195:6	168:16	117:23	132:14
196:5 197:13	258:21	129:25	132:15
197:17	technicians	tenant 255:23	132:18
198:12	150:4 165:17	tens 68:15	132:23
201:16 211:1	175:14	169:15	133:11
211:6 211:16	185:21	term 70:16	133:12
211:18	technologies	70:20	133:16
211:23	14:15	131:4 141:16	133:25 134:4
212:14	technology	232:20	138:20
213:21			
215:12			

138:24	167:10	220:20	58:17
147:24	167:18	222:15	58:18
155:13	168:10	222:17	59:10
155:22 166:6	174:14	227:21	59:20
166:10 167:9	174:16	232:24	60:14
169:11	174:17 178:5	244:12	64:14
174:22	183:5 185:17	244:15	64:15 66:8
186:22 209:4	186:14 187:6	265:11	66:22
209:5	219:10	266:11	69:22
268:1 278:25	240:15	texts 224:16	69:23
tested	240:21	thank 13:10	72:11 74:5
75:12 155:12	241:14	13:20	74:6 77:6
155:19 187:1	242:11	16:18	77:7 79:24
testimony	242:13 243:9	17:16	80:23
111:1 121:12	243:14	18:11	80:24 83:1
122:3	243:18 257:4	19:25	84:12
173:8 189:2	257:6	20:20	84:13 87:8
testing	257:9	21:10	89:13 92:1
18:9 19:9	259:2 267:20	21:24	92:2 92:4
19:18 20:9	267:21 270:5	22:15 24:1	92:8 92:12
20:11	270:5	24:17 25:9	93:11
21:22	273:8 273:10	25:21 26:8	93:22 94:7
23:20	tests 98:12	27:13	94:11
24:24	129:18	28:11 29:7	94:21
26:21	129:20	29:24 32:4	95:16 96:3
81:12	167:14 174:9	32:9 33:20	99:8 99:11
81:14	175:13	38:8 39:7	100:10
81:23 109:20	Texas 56:8	39:14	101:19
109:20	68:5	39:24 40:8	101:20 103:1
111:13	text 12:17	42:5 42:6	103:2
117:21 129:7	12:18	42:20 43:7	103:6
130:10	12:21	43:13	104:9 104:10
149:17 154:5	58:25 59:3	45:22	104:13
154:6 159:14	85:1	48:17	105:12
159:19	134:25 158:3	48:18	105:14
159:21	191:3	48:24	105:16
159:22 165:1	200:6	49:25 50:1	107:12
165:16 166:1	200:9 200:14	50:12 53:1	107:13
166:2	200:16 209:8	53:9 54:17	107:17 108:3
166:5 166:13	211:12	54:18 57:1	108:4 108:25
166:23 167:4	216:24	57:2 57:7	109:5
			109:6 110:19

110:20	148:23 150:6	207:25 208:8	230:16
112:22	150:7	208:12	231:16
112:24	152:4	210:14	231:22 232:4
112:25 115:1	153:3 153:19	210:17 211:3	232:7 232:10
115:2	153:20	213:8	233:6
117:1	154:25 155:1	213:9 213:15	233:7 233:10
117:2 118:13	156:22	213:22	233:24
118:14	156:23 159:6	213:23	234:23
118:18	160:20 162:6	213:25	235:15 236:7
119:23	162:7 162:12	214:20 216:5	236:8 236:13
119:24 120:1	164:24	216:6 216:14	237:8
120:22	165:19	216:15 217:6	237:9 237:11
120:23 121:6	165:20	217:10	237:17
121:7 122:10	167:24	217:17	237:18
122:11	167:25	217:22 218:8	237:20 238:3
123:14	169:25 170:1	219:19	238:4
123:15 124:9	172:2	219:20	238:9 238:13
124:10 125:3	172:3	219:22	238:14 239:4
126:14 127:9	173:3	220:23	239:6 239:12
128:4 128:12	175:5 177:20	220:25 221:7	239:13
128:19	177:21	221:16	239:14
130:17	177:23 179:2	221:17	239:22 240:3
130:18	181:22 183:9	221:19 222:1	240:23
130:21 132:1	184:25 185:7	222:7 222:24	240:24 241:2
132:8	185:14	223:13	242:3 242:21
133:2	185:15 186:4	224:10	242:22 243:3
133:3 133:18	186:5	224:19	243:23
133:21 134:9	186:7	224:21 225:6	243:24 244:6
134:10	187:8 187:17	225:8 225:16	244:25
134:18 135:6	188:22	225:17	245:11
135:16 136:7	189:24 191:9	225:24	245:18
137:1 137:10	191:13	226:14 227:6	245:22
140:4	191:17	227:10	247:17
140:5	191:19 192:9	227:14	247:18
142:5	193:7 194:21	227:23	247:21
142:6	197:5 198:17	227:24 228:3	248:15
144:5	198:21	228:14	249:24
144:6	199:22	228:16	250:11
144:8 145:21	200:18	228:23	250:25 251:7
147:10	202:10	228:24 229:4	251:15
147:11	205:24	229:25 230:6	251:21 253:5
148:20	206:17 207:6	230:7 230:15	253:6 253:22

255:4	themselves	276:9	71:2 72:6
255:5 255:12	82:6 171:19	They'll 262:8	73:16
256:6	theoretically	they're	83:14 86:7
256:7 256:20	186:24	48:2	212:8 212:18
258:4	therefore	115:11	213:3 215:18
258:6 258:18	45:18	138:23	215:21
259:13	75:19	145:18 148:2	thresholds
259:23	102:7	150:25	63:13 71:17
259:24 260:1	141:5	154:22	throughout
260:20	190:8 202:20	167:22 169:3	34:12
260:22	203:6 203:19	171:6 174:23	131:5
260:24	204:7 204:20	175:2 178:17	171:7
261:22	205:17	178:22	249:8 254:20
261:23	233:20	178:23	THURSDAY 5:3
262:17 263:4	242:18	235:22	thus 40:19
264:22 265:2	there's 39:25	268:25	233:5 237:5
265:19	55:18	they've 67:5	TIA 104:23
265:20	72:18 89:1	third 63:17	198:25
265:23 268:3	91:17	161:2 164:17	tie 8:22
268:4 268:10	104:1	167:9 167:22	tiers 277:15
270:15	110:9 113:25	183:16 224:2	til 206:7
270:16	114:6 114:15	245:20	206:9
270:18	114:20	thirds 226:17	Till 29:10
272:13	115:18	229:6	29:12 29:13
272:14	120:17 124:2	THOMAS 54:24	Tim 81:1 81:1
272:16	132:17	thorough	timely
273:19	137:11	51:17 146:21	13:18 67:15
273:21	139:19	147:8	timer 11:22
274:23	158:22 166:2	thoroughly	tiny 78:10
276:18	167:19	87:16 196:5	175:18
278:11	168:23 169:1	thousands	175:19
278:17	175:16 176:6	68:15	TLC 144:9
279:14	182:5 189:19	68:23 155:12	177:24 185:8
279:15 280:6	193:13	three-day	235:16 256:9
280:12	220:14 223:6	58:7	today 8:5
280:20	224:1	threshold	9:10 9:25
thanking	240:4 251:18	63:9 68:25	14:17 15:4
14:20	264:13	69:5 69:7	
thanks 32:2	264:23	69:11 70:4	
33:14 90:3	269:18 271:3		
206:2	274:14 276:3		

15:12	total 13:3	47:13	150:23
20:24	67:22	track 220:14	truly 81:15
29:22 30:2	totally 88:15	tracked 67:4	83:21 144:18
30:8 32:17	91:7	tracking	146:23
35:3 36:8	159:10 174:8	67:10	166:20
37:14 38:4	touch 58:23	Tracy 78:3	trust 51:10
45:21 50:8	59:1 59:3	80:12	trusted
50:10	92:21 94:3	trades 14:10	166:22
66:23	126:9 126:10	traditional	truth 146:17
67:14 72:6	134:24	15:23	try 37:16
78:19	157:10	tragic 86:5	115:23 119:4
83:15 121:13	157:12 158:1	train 234:19	144:22
122:3 122:21	158:2 179:13	trained	145:15 164:1
151:10 167:5	180:1	234:12	174:2
173:21 194:2	180:2 190:24	234:18	trying
206:3	190:25	trainer 89:20	41:22
214:6 227:13	199:16	training	72:22
280:13	199:18 200:4	27:21 58:7	77:18
today's	200:6	58:10	77:18 80:1
5:18 5:21	200:9 216:20	transit 23:14	114:17 122:1
9:16 33:5	222:13	transmission	137:24
36:2 36:11	222:15	220:21	162:21 189:6
toes 269:7	222:17	Transportatio	223:11
Tom 87:10	238:19	n 26:2	237:23
87:10	244:11	treat 93:20	276:20
Tommy 54:25	244:13	treating	tube 130:3
Tony 101:23	244:15	279:1	turf 272:19
101:23	263:10	tree 274:4	turn 149:12
123:19	towards	Trench 30:24	149:13
123:19	167:11	trenches	191:14
123:23	towel 130:10	262:3	205:25
tool 53:17	towns 86:18	tripping	turnover 32:5
54:14 154:22	Township	117:20 118:7	TUV 28:17
tools 56:12	86:16	Troy 262:1	two-thirds
82:2	toxic 146:15	true 46:18	92:15 226:11
topic 65:25	toxicity		229:24
97:2	175:21		two-tiered
184:20	toxins 75:14		277:19
249:16	traceability		

two-way 218:15 219:2 219:7 219:11 219:14 220:1 220:7 221:12 221:15 221:24 223:18 224:14 224:17 225:3 225:4 227:3 227:22	182:12 typos 80:10 80:21 <hr/> <hr/> U <hr/> U.S 61:21 63:25 64:1 70:5 70:13 71:4 72:2 76:8 82:21 139:17 U.S.-based 46:16 ubiquitous 170:24 UL 102:12 169:14 210:2 ultimate 151:24 ultimately 75:8 97:7 150:17 252:15 unable 142:21 195:5 unacceptable 110:13 122:5 unaware 70:15 unbalance 117:16 uncertain 270:25 unchanged 220:17 underground 97:20 112:1 undermine	82:23 underneath 160:11 undersized 113:11 understand 61:13 73:12 81:14 84:25 91:11 259:17 259:21 understandabi lity 124:18 understandabl y 209:11 understanding 46:22 52:20 71:9 81:18 understood 119:1 undetected 172:21 undisclosed 68:7 undue 271:11 unfairly 40:20 unfiltered 91:4 unforeseen 177:13 unfortunately 68:1 80:13 91:19 163:18 168:7	UNIDENTIFIED 5:6 15:11 17:9 17:22 18:17 20:5 20:25 21:14 22:4 22:20 24:6 24:21 25:14 26:1 26:13 27:18 28:16 29:12 30:1 40:3 61:1 61:2 92:7 92:10 93:7 93:13 93:22 95:25 125:10 125:14 128:16 137:16 157:3 159:2 179:10 180:6 182:15 190:3 193:16 199:7 199:11 208:13 217:16 222:25 223:20 223:25 225:23 226:16 227:5 227:8 228:2 229:3 229:7 232:6 235:11 240:7 245:19 251:17 265:1 Uniformity
type 34:21 63:12 68:17 71:16 81:20 87:14 92:23 92:24 94:1 125:18 134:3 148:14 168:24 190:9 190:11 212:22 277:22			
types 106:17 121:18 121:19 121:20 121:23 134:1			
typical 63:13 71:17 166:8			
typically 7:22 35:17 119:9 252:2 261:14 269:1			
typo 182:10			

52:18	universities	209:3	198:7 198:10
unintended	81:13	209:7 220:12	198:15
81:25	university	232:23 234:4	users 58:15
103:9	91:9	248:21 254:2	62:5
104:1	unknown	264:4	102:19
105:7 110:16	274:21	279:7 279:11	194:10
246:13 247:1	unless	upsized	194:14
Union 72:15	177:3 209:23	108:17	usually 55:21
80:5 197:14	unlimited	URD 105:7	118:24
unique 15:20	271:21	urge 62:8	271:22
unit 39:2	unmarketable	63:5 64:12	Utah 68:4
45:13	64:7	69:20	utilize
46:15 47:3	unnecessary	72:10 87:5	8:17 62:24
47:4 47:9	76:1	91:25 99:6	106:2
47:21 54:5	unsubstantiat	105:9 107:11	161:9
55:12	ed 272:10	128:20 134:7	162:3 183:23
55:19 56:1	untold 86:4	145:20 147:7	utilized
58:8	untrained	150:2 151:19	44:24 47:19
United	168:17	152:3	utilizing
50:17	update 273:25	173:2 177:19	47:1 161:4
50:21 70:2	updated 14:14	179:1	183:19
72:14 80:4	86:23	198:9	utmost 215:10
132:24	updates 85:5	199:2 210:12	_____
231:24	upgrade	214:16	V
232:12	108:24	214:16	_____
236:15 239:8	114:22	221:13	vacated 82:23
units 38:5	114:24	225:14	validity 49:9
38:12	uphold	228:11	valuable
38:16	39:20 104:17	228:21 233:1	77:15
38:17	upholds 153:1	237:6	value 53:15
38:22 39:6	upon 7:6 7:14	238:2 243:20	54:6 166:1
41:13 43:2	8:10 9:19	247:16 253:2	177:3
43:15	32:16	usable 123:8	vapor 26:19
43:20	32:21 35:7	USDA 64:6	vapors 21:9
44:25 45:9	134:3	76:9 76:12	28:25
45:17	178:6 188:13	91:9	variability
47:19 48:9	195:8	user 47:23	52:4
48:16 274:15		57:25 195:16	variables
unity 52:12		195:25	
		197:22 198:4	

195:14	258:21	90:21	37:6 37:14
275:17	vertical	visual	37:19
various 38:13	106:5 130:3	161:1	37:21
101:14	vertically	161:5 161:21	37:21
vary 86:1	271:22	164:13	37:22
varying 81:19	vessels 30:16	166:25 167:8	48:14
Vaughn 31:10	via 104:23	167:10 168:9	58:13
Vegas 31:10	198:25	169:18	58:19
vehicle 90:18	vicinity	172:17	58:20
velocities	160:8	176:20	58:23
102:13	Victaulic	183:15	58:23
velocity	245:1 245:16	183:20	58:24 59:2
116:8 116:11	245:23	184:10	59:4 59:6
116:20	view 6:2	185:24	63:5 64:12
ventilated	208:21 267:3	186:21	69:20
91:7	viewed 41:1	187:22 188:1	72:10 77:5
ventilation	views 11:9	188:2 188:12	80:8 80:22
90:10 163:22	Vince 127:7	visually	82:25 87:5
vents 82:4	Vincent 127:9	167:21	92:15
Venus 70:15	128:4 130:19	174:20	92:16
verbal 34:8	130:21	177:15	92:19
167:15	134:14	178:20	92:20
verbiage	134:17	voice 15:20	92:21
158:3	violate	voltage	93:14
verifiable	155:17	113:23	93:14
104:20	violating 5:6	117:16	93:16
verification	152:13	volume 212:2	93:19
176:20	Virginia 15:6	voluntary	93:25 94:2
verified	17:24	74:13 84:23	94:4 98:14
174:20 176:3	25:15 30:10	volunteer	99:7 104:7
verify 9:11	virtually	51:2	107:11
36:24 177:15	151:17	volunteers	107:20
version 65:17	187:25	14:12	114:18 125:1
versus	visible	vote 8:5 8:21	125:2 125:17
44:13	13:6 34:11	8:22 9:24	125:18 126:2
57:13 258:21	visit 6:4	12:1 12:1	126:3
		12:3 13:2	126:7 126:12
		35:3 36:23	126:16 134:7
		37:1 37:2	134:19
			134:21
			134:24 135:3
			135:7 141:11

142:4	222:13	279:16	36:9 36:10
147:7	222:13	279:17	36:12
150:2 157:11	222:14	279:20	36:16
157:15	222:16	279:20	36:17
157:16	225:14	279:21	36:20 37:5
157:20 158:1	225:25 226:1	279:23	37:7 37:8
158:6	226:4	voted 32:16	37:14
158:8 161:16	226:4	43:23 44:6	37:18
162:5 171:24	226:6	46:10 55:4	37:20 59:5
177:19	226:8 226:15	78:13	78:19
179:16	228:11	78:15	79:22 93:1
179:21 180:1	228:21	87:17	93:2 93:18
180:1	229:10	108:1 144:13	93:21 94:5
180:2	229:11	229:23	94:6
180:5	229:16	234:13	105:10
180:8	229:18	236:19 249:4	125:22
184:4 184:19	229:21 236:4	277:4	126:13
190:9 190:12	238:15	votes 7:24	126:15 135:4
190:18	238:16	8:11 9:10	135:5 157:17
190:24	238:19	11:11 13:3	157:19 158:2
190:25	238:19	34:22	158:7 179:13
199:13	238:20	35:22 37:9	179:17
199:14	238:22	37:23	179:18 180:9
199:15	242:19	65:22	180:12
199:17	243:20 244:7	65:22	180:13
199:19	244:8 244:11	97:11	180:14
199:23	244:11	97:12 216:25	190:13
199:25 200:1	244:12	217:2 222:18	190:14 191:4
200:4	244:14	226:10	191:5 199:20
200:4	244:18	238:24	199:21
200:5	250:12	244:16	200:11
200:8 200:10	250:16	250:21	200:12
200:13	250:16	263:14 277:5	214:17
216:16	250:17	279:25	222:19
216:17	250:19	voting 8:1	222:21 239:1
216:20	250:19 255:2	8:3 8:12	250:24
216:20	256:18 263:5	8:13 8:16	263:16 280:4
216:21	263:6 263:10	8:17 8:19	Voting's
216:23	263:10	8:25 9:1 9:3	244:19 280:5
216:24 217:3	263:11	9:8 9:16	Vries 133:21
221:13 222:9	263:12	9:18 34:25	
222:10	270:14		

133:22	watched 170:9	103:7 272:17	100:11 126:1
<hr/>	water 21:18	ways 155:13	135:23 136:2
<hr/> W <hr/>	21:22	155:21	192:1 199:25
wait 91:17	26:18 28:8	166:11	206:7 213:10
247:14 270:5	29:3 63:23	167:17	216:16
waiting 92:14	64:21	weaknesses	229:20
waive 83:18	65:10 70:9	50:18	238:15
wake 210:3	70:18 71:4	weaponizing	242:23
wall 164:5	71:7 71:25	40:23	244:18
265:15	72:1 74:25	weather 81:19	249:25
265:17	75:1 75:6	web 79:1	250:12
267:14	75:7 75:9	190:2	250:22 262:7
268:20	75:13	website	262:10 263:5
271:15 275:5	75:16	5:13 5:22	276:12
walls	75:19	136:21	279:15 280:4
132:20 176:4	87:20 91:4	week 107:25	well-being
271:23	96:24	144:13	75:23
war 272:19	97:24 106:17	175:17 273:7	well-
warranted	112:5	weeks 67:18	meaning 78:4
49:5	112:6	weigh 278:18	well-
warrants	112:8	weighed 11:14	regulated
120:17	114:4 115:12	278:20	170:9
Warren	115:16	weight 71:21	well-
24:19	115:22	Welch-White	substantiate
24:20	121:24	70:15 70:19	d 120:14
24:21 25:9	174:17	welcome 13:21	Wentworth
washing 169:6	248:11	17:19 32:8	150:9
Washington	248:18	32:13 33:9	Wentworth-
22:6 170:3	water-based	93:24	Douglass
wasn't	19:10	136:5 206:16	186:8
20:23	20:10 28:5	welfare 66:21	we're 19:14
78:14	31:16	66:24	37:10
80:13	waterways	77:24 83:5	37:16
80:20	63:22	84:4	42:18 66:9
143:2 272:3	Watson 38:8	we'll 45:24	73:18
waste 26:4	38:10	46:1 58:19	73:19
26:5 70:9	43:11	61:5 93:12	83:14 89:4
	43:13 57:7		92:14
	58:18		92:18 103:11
	Wayne 27:19		106:4 106:10

106:15	277:24	101:22 103:4	29:11 29:12
108:23	Western	104:12	Williams
109:14 111:5	145:25 172:6	107:15 108:6	170:3 170:3
111:21 112:3	187:10	109:15 113:2	willing 87:23
119:4 119:16	Weston 17:7	115:4	198:11
126:23 127:5	17:7 17:9	117:4 118:16	willingness
132:2 134:19	17:16	121:13	198:25
135:11	we've 67:6	122:13	Wills 113:4
135:21 139:2	111:1 111:20	124:12 125:5	113:4
142:7 143:18	145:8 145:14	129:16 132:5	Wilson 38:6
145:17	145:16	133:5 133:20	38:10
149:14	155:14	142:10	wind 53:25
151:20	171:20	150:12	window 119:4
155:16	174:14 175:8	150:14	windows 25:18
159:12 162:8	176:2	150:19	136:9
164:21 175:2	176:3	150:23 152:6	177:3 181:6
175:25 176:9	178:2 185:12	162:10 168:2	winner 17:20
182:22	190:4 231:19	169:5	Winter 30:4
182:24 185:1	247:3 258:19	185:4	wiped 103:13
185:21	262:4	197:9 213:13	wipes 187:25
185:22	whatever	221:4	wire 111:18
185:23	121:14	223:8	112:20
186:18 187:6	132:20 278:4	235:8	117:23
189:6 193:21	Where 's	243:1	168:17
193:23 194:1	159:25	250:3	wires 175:24
206:8	WHEREUPON	255:9 257:17	Wisconsin
206:8	127:1 206:12	261:7	121:17
207:2	280:24	263:1 268:8	wish 51:23
224:2	wherewithal	whole 47:4	58:24 59:2
225:5 225:18	258:13	47:21 246:25	92:22
225:25 226:4	whether 10:17	whomever	92:24
226:21	12:9 39:12	147:4 255:25	93:25 94:2
229:11	42:8 46:3	who's	126:7 199:15
231:20 246:9	48:20 49:4	143:12	199:17 200:5
257:5	50:3 53:3	156:18 211:1	200:8 216:21
257:6	54:22 56:2	259:8 259:9	216:23
258:9	66:12 71:4	whose 78:22	222:14
261:7	83:3 84:15	wider 269:23	
268:5 272:21	89:15 100:14	William	
272:22		15:5 29:10	
274:18			
274:21			

222:16 226:6	49:21	42:15	org/72next
226:8 229:16	65:24	worn 90:23	224:7
229:18	71:23	worried 123:5	www.NFPA.
238:20	81:11	worse 105:7	org/regs
238:22	81:14	164:18	5:13 5:23
244:12	81:19 87:4	worthy 17:4	www.NFPA.
244:14	87:22	Wright 31:20	org2024tech.
250:17	88:17 107:18	write 87:23	session 6:4
250:19	110:4	writing 16:13	<hr/>
263:11	145:3 155:20	43:22	Y
263:12	169:24	43:23	<hr/>
279:21	170:12	48:12 208:24	Yanagisawa
279:23	176:17 189:6	written 44:21	195:4
withdraw	191:23	122:21	year's 14:1
200:25	192:14	wrong 107:7	32:14 39:9
201:19	198:11	114:20	Yep 169:10
201:21 233:5	198:25	224:23	yeses 59:8
withdrawal	228:10	www.NFPA.	yesterday
202:19 203:5	234:20	org/13next	91:16
203:18 204:6	234:22 271:6	231:12	yet 9:8 36:11
204:19 264:4	worked 139:23	www.NFPA.	76:1 77:2
264:8	197:18	org/150next	154:15
withdrawing	workers 146:1	60:9	168:18
237:5 246:23	172:7 187:13	www.NFPA.	168:21
withdrawn	231:25	org/1970next	169:11
263:22 264:1	232:12	193:3	169:12
withdrew	236:15 239:8	www.NFPA.	215:24 223:9
246:22	working 16:11	org/2024tech	226:21 275:8
witnessed	36:10	session	Yorktown
68:10	36:24	9:4 36:6	30:10
wondering	57:10	www.NFPA.	you'll 34:7
162:16	61:10	org/318next	168:15
wood 21:7	74:23 79:8	127:25	yourself 5:15
88:25 89:25	84:6 84:10	www.NFPA.	10:20
worded 236:2	201:17	org/318next	youth 31:4
wording 45:18	249:13	127:25	31:5
196:10	world 87:20	www.NFPA.	you've
work 16:5	167:2	org/318next	120:4 175:25
47:17	274:8 274:21	www.NFPA.	186:16
	worldwide		

<p style="text-align: center;"><u>Z</u></p> <p>Zeedyk 148:23 148:24 175:5 175:6</p> <p>zero 111:4 113:14 167:7 171:11</p> <p>zones 106:5</p>			
---	--	--	--