



National Fire Protection Association

1 Batterymarch Park, Quincy, MA 02169-7471
Phone: 617-770-3000 • Fax: 617-770-0700 • www.nfpa.org

**TECHNICAL COMMITTEE ON MINING FACILITIES
NFPA 120 and NFPA 122 Pre-Draft Meeting Agenda
March 17-19, 2020 8AM-5PM EST
Doubletree by Hilton Montreal
1255 Jeanne Mance Street, Montreal, Quebec, Canada**

Note: Continental breakfast will be available in the meeting room starting at 7:30 each day, and lunch will be provided each day.

1. Welcome. Mario Orozco, Chair
2. Introductions and Update of Committee Roster. (Attachment A)
3. Approval of Meeting Minutes from March 19-20, 2019. (Attachment B)
4. Staff updates. Laura Moreno, NFPA Staff
 - a) Committee membership update.
 - b) Fall 2022 revision cycle schedule. (Attachment C)
 - c) Overview of NFPA Process.
5. Task Group Reports.
 - a) Fire protection of conveyors and evaluation of existing suppression systems. Matthew Bujewski (chair), Steve Sheldon, Chris Yoder, Robert Taylor
 - b) Concentrator safety. Matthew Paine (chair), Erick Mondragon, Steve Behrens, Larry Moore
6. Other Topics for Consideration.
 - Battery Fire Suppression for Mobile Equipment – NFPA 120/122
 - Fire suppression systems as a whole
 - Fire suppression materials- wet chem vs dry chem systems
 - Autonomous Equipment – NFPA 120/122
 - Fire Suppression on mining equipment and hose quality/distribution hoses – NFPA 120/122

If time permits, the committee will review the rest of the topics in this prioritized order:

- Ventilation - NFPA 120/122
- Hosing on Vehicles

ATTACHMENT A

Address List No Phone

02/12/2020
Guy R. Colonna
MIN-AAA

Mining Facilities

| | | | |
|---|--|---|--|
| Mario G. Orozco Chair Zurich Insurance 1721 Poplar Place Schaumburg, IL 60172 | I 1/10/2002 MIN-AAA | David G. Aden Principal State of Alaska Department of Public Safety Division of Fire & Life Safety 1979 Peger Road Fairbanks, AK 99709 | E 3/1/2011 MIN-AAA |
| Steven M. Behrens Principal AXA XL Risk Consulting/ Global Asset Protection Services, LLC 100 Constitution Plaza Hartford, CT 06103 | I 11/2/2006 MIN-AAA | Michael Breneman Principal Peabody Energy 701 Market Street St Louis, MO 63101 | U 08/17/2017 MIN-AAA |
| Matthew J. Bujewski Principal TUV SUD Global Risk Consultants 9650 Mill Hill Lane St. Louis, MO 63127 | I 12/06/2019 MIN-AAA | John D. Campbell Principal Global Fire Protection Group, LLC 732 Spring Crest Court Fenton, MO 63026-3920 Hidrosistemas Baja | M 04/04/2017 MIN-AAA |
| Joseph J. Chrobak, Sr. Principal William Penn Fire Company 23 Blue Ridge Drive Levittown, PA 19057 | E 11/30/2016 MIN-AAA | Jack Douglas Conaway Principal Arch Coal, Inc. One CityPlace Drive, Suite 300 St. Louis, MO 63141 Alternate: Eric Metheny | U 3/4/2009 MIN-AAA |
| Brian Corcoran Principal Wolverine Fire Protection 2910 S Highland Drive, Suite G Las Vegas, NV 89109 | IM 04/08/2015 MIN-AAA | Paolo De Rosa Principal Marsh Canada 120 Bremner Boulevard, Suite 800 Toronto, ON M5S0A8 Canada | I 08/17/2018 MIN-AAA |
| Rickard P. Hansen Principal Malmfaltens Brandkonsult Taljstensvagen 7 Nykoping, S 61167 Sweden | SE 08/03/2016 MIN-AAA | Jason Wallace Jeffe Principal Murray Energy Corporation 543 Potomac Drive Washington, PA 15301 | U 08/17/2018 MIN-AAA |
| L. Harvey Kirk, III Principal US Department of Labor Mine Safety & Health Administration 1100 Wilson Blvd., Room 2446 Arlington, VA 22209-3939 Alternate: Charles Barton | E 3/15/2007 MIN-AAA | James M. Kohl Principal Cintas Fire Protection 621B Industrial Park Road Carbondale, IL 62901 National Association of Fire Equipment Distributors | IM 10/28/2008 MIN-AAA |

Address List No Phone

02/12/2020
Guy R. Colonna
MIN-AAA

Mining Facilities

| | | | |
|--|--|--|--|
| Scott Matthews Principal AFEX Fire Suppression Systems 5808 Lease Lane Raleigh, NC 27617 | M 04/03/2019 MIN-AAA | Erick Mondragon Principal Swiss Reinsurance Company (Swiss Re) 1450 Brickell Avenue, Suite 1750 Miami, FL 33131 | I 08/03/2016 MIN-AAA |
| Matthew Paine Principal FM Global 1151 Boston-Providence Turnpike Norwood, MA 02062-9102 Alternate: Larry J. Moore | I 04/11/2018 MIN-AAA | Kendall A. Pate Principal Amerex Corporation 7595 Gadsden Highway PO Box 81 Trussville, AL 35173-0081 Alternate: Jacob Johnsey | M 8/9/2011 MIN-AAA |
| Chad L Ryczek Principal Johnson Controls 2700 Industrial Parkway South Marinette, WI 54143 Alternate: Dennis M. Phillips | M 12/07/2018 MIN-AAA | Michael Schmeida Principal Gypsum Association 3730 Sharon-Copley Road Medina, OH 44256-9778 Alternate: Timothy Earl | U 12/08/2015 MIN-AAA |
| Steven A. Sheldon Principal Fisher Engineering, Inc. 3707 East Southern Avenue Mesa, AZ 85206 | SE 08/09/2012 MIN-AAA | Robert D. Taylor Principal PRB Coal Users Group 4294 Martha Court Newburgh, IN 47630-0002 | U 12/06/2017 MIN-AAA |
| Spencer Thompson Principal North American Coal 11700 Nw 101 Road, Suite 19 Medley, FL 33178 | U 08/17/2017 MIN-AAA | William B. Till, Jr. Principal Bernie Till & Associates LLC 197 Till Hill Road Orangeburg, SC 29115-8744 | SE 12/08/2015 MIN-AAA |
| Pierre M. Tousignant Principal Sherritt Metals 1768 Chemin Des Patriotes Sainte-Victoire, QC J0G 1T0 Canada | U 04/11/2018 MIN-AAA | Daniel P. Wake Principal Victaulic Company of America 4901 Kesslersville Road PO Box 31 Easton, PA 18040-6714 National Fire Sprinkler Association Alternate: Tracy Bollig | M 08/11/2014 MIN-AAA |
| Chris Yoder Principal Pillar Innovations 32 Corporate Drive Grantsville, MD 21536-1259 | M 03/07/2013 MIN-AAA | Liming Yuan Principal National Institute for Occupational Safety & Health 626 Cochrans Mill Road Pittsburgh, PA 15236 National Institute for Occupational Safety & Health | RT 08/03/2016 MIN-AAA |

Address List No Phone

02/12/2020
Guy R. Colonna
MIN-AAA

Mining Facilities

| | | | |
|--|---------------------|--|---------------------|
| Charles Barton | E 04/04/2017 | Tracy Bollig | M 08/17/2018 |
| Alternate US Department of Labor Mine Safety & Health Administration 201 S. 12th Street Suite 401 Arlington, VA 22202 Principal: L. Harvey Kirk, III | MIN-AAA | Alternate American Fire Sprinkler Corporation 6750 West 47th Terrace Mission, KS 66203 National Fire Sprinkler Association Principal: Daniel P. Wake | MIN-AAA |
| Timothy Earl | U 08/17/2017 | Jacob Johnsey | M 12/06/2019 |
| Alternate GBH International 6862 Shallowford Way Portage, MI 49024 Gypsum Association Principal: Michael Schmeida | MIN-AAA | Alternate Amerex Corporation 7595 Gadsden Highway Trussville, AL 35173 Principal: Kendall A. Pate | MIN-AAA |
| Eric Metheny | U 10/23/2013 | Larry J. Moore | I 1/1/1988 |
| Alternate Arch Coal Sentinel Complex 21550 Barbour County Highway Philippi, WV 26416 Principal: Jack Douglas Conaway | MIN-AAA | Alternate FM Global 11628 Ranch Elsie Road Golden, CO 80403 Principal: Matthew Paine | MIN-AAA |
| Dennis M. Phillips | M 10/18/2011 | Guy R. Colonna | 01/22/2020 |
| Alternate Johnson Controls 1700 Valleyview Drive Mount Juliet, TN 37122 Principal: Chad L Ryczek | MIN-AAA | Staff Liaison National Fire Protection Association One Batterymarch Park Quincy, MA 02169-7471 | MIN-AAA |

- Case studies involving losses at plants/processing facilities and dollar figures involved with losses
- NFPA 122- Emergency Response plans
- Fire suppression/sprinkler systems/belt quality, section 14 of NFPA 120/122
- Update of references
- NIOSH specifications referenced - NIOSH 120 and 122
- NFPA 120 A.1.1.1 update fire data
- New annex - possible case study on mining and mine processing incidents
- Concentrator safety (TG Matt Paine)
- Belt Drive Sprinklers- 120
- Loading of mine products for shipping/transportation purposes
- Dated terminology/specifications throughout NFPA 120 and 122
- New member education - possible info submitted via another venue?
- Concentrator fires/fire history
- NFPA 122- Use of concentrators/safety parameters
- Grades of Coal
- Outreach on a global platform - possible info submitted via another avenue?
- Plastics usage in mine processing operations

7. New Business.

8. Next Meeting.

9. Adjourn.

AGENDA
ATTACHMENT B



NATIONAL FIRE PROTECTION ASSOCIATION

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

**Technical Committee on Mining Facilities
NFPA 120/122
Second Draft Meeting Minutes (F2019)
Courtyard San Antonio Riverwalk
207 N. St. Mary's Street
San Antonio, TX
March 19-20, 2019**

Attendance

Chair

Mario Orozco, Zurich Insurance

Principals

Steven Behrens, Global Asset Protection Services, LLC

Matthew Bujewski, MJB Risk Consulting

John Campbell, Hidrosistemas Baja

Paolo De Rosa, Marsh Canada

Jason Jeffe, Murray Energy Corporation

James Kohl, National Association of Fire Equipment

Erick Mondragon, Swiss Reinsurance Company

Matthew Paine, FM Global

Chad Ryczek, Johnson Controls

Steven Sheldon, Fisher Engineering, Inc.

Robert Taylor, PRB Coal Users' Group

William "Bernie" Till, Bernie Till and Associates, LLC

Pierre Tousignant, Sherritt Metals

Chris Yoder, Pillar Innovations

Liming Yuan, National Institute for Occupational Safety and Health

Voting Alternate

Kendall Pate, Amerex Corporation

Alternates

Tracy Bollig, American Fire Sprinkler Corporation

Eric Metheny, Arch Coal

Guests

Jacob Johnsey, Amerex Corporation

Scott Matthews, AFEX

Tom Peck, Peabody Energy



NATIONAL FIRE PROTECTION ASSOCIATION

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

NFPA

Debra Gursha, Staff Liaison, National Fire Protection Association

AGENDA

1. **Call to Order.** Mario Orozco, Chair, called the meeting to order at 8:00 AM, Central Time, on March 19, 2019.
2. **Introductions.** Mario Orozco made the introductions.
3. **Approval of Meeting Minutes.** NFPA 120/122 1st draft meeting minutes dated March 20-21, 2018 were approved as written.
4. **Staff Update.** Debra Gursha, the new staff liaison for NFPA 120/122, provided an overview of the NFPA process and the F2019 revision cycle schedule.
5. **Task Group Reports.** The technical committee reviewed the work completed by the three task groups established at the first draft meeting. These were as follows:

Spirals
NFPA 30 references
Ignition sources

These task groups were thanked for their work and disbanded by the chair.

6. **Review of Committee Inputs and Creation of Second Revisions.**

The technical committee reviewed five committee inputs that were created for NFPA 120 and two committee inputs that were created for NFPA 122. The technical committee created second revisions as appropriate.

Information on these motions will be available in the second draft report.

There were no public comments submitted for NFPA 120 or 122.

7. **New Business.**

Next Revision Cycle-The technical committee expressed that both NFPA 120 and 122 needed updating to reflect current processing methods for the mining industry. The technical committee requested that NFPA 120 and 122 be placed on a three year revision cycle in order



NATIONAL FIRE PROTECTION ASSOCIATION

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

to revise and expand language to both standards. D. Gursha offered to draft a memo and forward it to the Standards Administration with this request.

Pre-First Draft Meeting-In order to conduct a thorough evaluation of the language in NFPA 120 and 122, the technical committee expressed that a pre-first draft meeting was needed for the next revision cycle. Possible locations included Montreal, Phoenix or Denver.

Task Groups-During the next revision cycle, the technical committee recommended that the following task groups were needed:

Fire protection of conveyors and evaluation of existing suppression systems. Purpose: Investigate current language in NFPA 120 and 122 to determine if enhanced fire suppression is warranted. The committee members offering to assist are Matt Bujewski, Chair; Steve Sheldon; Chris Yoder; and Robert Taylor.

Concentrator Safety-Purpose: Investigate language in NFPA 122 to determine if additional safety practices are warranted in order to minimize loss potential. The committee members offering to assist are Matt Paine, Chair; Erick Mondragon; and Steve Behrens.

8. **Other Business.** The technical committee requested the contact information for the Fire Protection Research Foundation. The technical committee is planning to put a request in with the Fire Protection Research Foundation to study appropriate fire suppression for conveyor belts involved with mining operations. D. Gursha will follow up with this request.
9. **Adjournment.** The meeting was adjourned at 11:45 AM on March 20, 2019.

AGENDA
ATTACHMENT C

Fall 2022 Master Schedule

| Process Stage | Process Step | Dates for TC | Dates for TC with CC |
|---------------------------------------|--|--------------|----------------------|
| Public Input Stage (First Draft) | Public Input Closing Date* | 1/06/2021 | 1/06/2021 |
| | Final Date for TC First Draft Meeting | 6/16/2021 | 3/17/2021 |
| | Posting of First Draft and TC Ballot | 9/08/2021 | 6/09/2021 |
| | Final date for Receipt of TC First Draft ballot | 9/29/2021 | 6/30/2021 |
| | Final date for Receipt of TC First Draft ballot - recirc | 10/13/2021 | 7/07/2021 |
| | Posting of First Draft for CC Meeting | | 7/21/2021 |
| | Final date for CC First Draft Meeting | | 9/01/2021 |
| | Posting of First Draft and CC Ballot | | 9/22/2021 |
| | Final date for Receipt of CC First Draft ballot | | 10/13/2021 |
| | Final date for Receipt of CC First Draft ballot - recirc | | 10/20/2021 |
| | Post First Draft Report for Public Comment | 10/27/2021 | 10/27/2021 |
| Comment Stage (Second Draft) | Public Comment Closing Date* | 1/05/2022 | 1/05/2022 |
| | Notice Published on Consent Standards (Standards that received no Comments) Note: Date varies and determined via TC ballot. | | |
| | Appeal Closing Date for Consent Standards (Standards that received no Comments) | | |
| | Final date for TC Second Draft Meeting | 6/29/2022 | 3/30/2022 |
| | Posting of Second Draft and TC Ballot | 8/24/2022 | 5/11/2022 |
| | Final date for Receipt of TC Second Draft ballot | 9/14/2022 | 6/01/2022 |
| | Final date for receipt of TC Second Draft ballot - recirc | 9/21/2022 | 6/08/2022 |
| | Posting of Second Draft for CC Meeting | | 6/22/2022 |
| | Final date for CC Second Draft Meeting | | 8/03/2022 |
| | Posting of Second Draft for CC Ballot | | 8/24/2022 |
| | Final date for Receipt of CC Second Draft ballot | | 9/14/2022 |
| | Final date for Receipt of CC Second Draft ballot - recirc | | 9/21/2022 |
| | Post Second Draft Report for NITMAM Review | 10/05/2022 | 10/05/2022 |
| Tech Session Preparation (& Issuance) | Notice of Intent to Make a Motion (NITMAM) Closing Date | 11/02/2022 | 11/02/2022 |
| | Posting of Certified Amending Motions (CAMs) and Consent Standards | 12/14/2022 | 12/14/2022 |
| | Appeal Closing Date for Consent Standards | 12/29/2022 | 12/29/2022 |
| | SC Issuance Date for Consent Standards | 1/09/2023 | 1/09/2023 |
| Tech Session | Association Meeting for Standards with CAMs | | |
| Appeals and | Appeal Closing Date for Standards with CAMs | | |

| Issuance | SC Issuance Date for Standards with CAMs | | |
|----------|--|--|--|
|----------|--|--|--|

TC = Technical Committee or Panel
CC = Correlating Committee

As of 12/17/2019