

**Report of the Committee on****Mining Facilities****Larry J. Moore, Chair**

FM Global, CO [I]

Rep. FM Global/FM Research

**J. Emmett Bevins**, Amerex Corporation, AL [M]  
**Dennis D. Brohmer**, Tyco Suppression Systems, WI [M]  
**Matthew J. Bujewski**, Marsh USA Inc., MO [I]  
**Michael C. Diliberto**, Diliberto & Associates, Inc., CA [SE]  
**Timothy J. Gierer**, Alltype Fire Protection Company, MO [IM]  
 Rep. National Assn. of Fire Equipment Distributors  
**Vincent A. Lupo**, Firemaster (Master Protection Corp.), CO [IM]  
**Bryan A. Lynch**, Kidde-Fenwal, Inc., MA [M]  
**Mario G. Orozco**, Zurich Services Corporation, IL [I]  
**Alex C. Smith**, National Institute for Occupational Safety & Health, PA [RT]  
**Barry A. Stewart**, Bechtel SAIC Company, LLC, NV [SE]  
**Brent Sullivan**, North American Coal Corporation, ND [U]  
**Pierre M. Tousignant**, Quebec Iron & Titanium Inc. (QIT), Canada [U]  
**Bruce Watzman**, National Mining Association, DC [U]  
**Robert A. Wessel**, Gypsum Association, DC [M]  
**William W. Wilson**, US Department of Labor, VA [E]

**Alternates**

**James J. (J.J.) Kenny**, Marsh Canada Ltd, Canada [I]  
 (Alt. to Matthew J. Bujewski)  
**David A. Pelton**, Tyco Suppression Systems, WI [M]  
 (Alt. to Dennis D. Brohmer)

Staff Liaison: **Richard P. Bielen**

**Committee Scope:** This Committee shall have primary responsibility for documents on safeguarding life and property against fire, explosion, and related hazards associated with underground and surface coal and metal and nonmetal mining facilities and equipment.

*This list represents the membership at the time the Committee was balloted on the text of this edition. Since that time, changes in the membership may have occurred. A key to classifications is found at the front of this book.*

The Committee on **Mining Facilities** is presenting two Reports for adoption, as follows:

**Report I** of this Report on Comments was prepared by the **Technical Committee on Mining Facilities**, and documents its action on the comments received on its Report on Proposals on NFPA 120, **Standard on Fire Protection for Self-Propelled and Mobile Surface Mining Equipment**, 2001 edition, as published in the Report on Proposals for the 2004 May Meeting.

NFPA 120 has been submitted to letter ballot of the **Technical Committee on Mining Facilities**, which consists of 16 voting members. The results of the balloting, after circulation of any negative votes, can be found in the report.

**Report II** of this Report on Comments was prepared by the **Technical Committee on Mining Facilities**, and documents its action on the comments received on its Report on Proposals on NFPA 122, **Standard for Fire Prevention and Control in Underground Metal and Nonmetal Mines**, 2000 edition, as published in the Report on Proposals for the 2004 May Meeting.

The title of NFPA 122 was changed to “Metal/Nonmetal Mining and Metal Mineral Processing Facilities” to more accurately reflect the scope of the standard.

NFPA 122 has been submitted to letter ballot of the **Technical Committee on Mining Facilities**, which consists of 16 voting members. The results of the balloting, after circulation of any negative votes, can be found in the report.

## NFPA 120

120-1 Log #CC1 **Final Action: Accept**  
( 3.3.8 Combustible Liquid )

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1

**Recommendation:** Revise 3.3.8 to read as follows:

**3.3.8\* Combustible Liquid.** Any liquid that has a closed-cup flash point at or above 100°F (37.8°C), as determined by the test procedures and apparatus set forth in 1.7.4. Combustible liquids are classified as Class II or Class III as follows: (1) Class II Liquid — any liquid that has a flash point at or above 100°F (37.8°C) and below 140°F (60°C); (2) Class IIIA — any liquid that has a flash point at or above 140°F (60°C), but below 200°F (93°C); (3) Class IIIB — any liquid that has a flash point at or above 200°F (93°C). A liquid that has a closed-cup flash point at or above 37.8°C (100°F).

**Substantiation:** Use the preferred definition from NFPA 30.

**Committee Meeting Action: Accept**

**Number Eligible to Vote:** 16

**Ballot Results:** Affirmative: 12

**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-2 Log #CC2 **Final Action: Accept**  
( 3.3.18 Fire-Resistant Construction (New) )

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1

**Recommendation:** Add new definition as follows:

**3.3.18 Fire-Resistant Enclosure.** An enclosure that is constructed of fire-resistant construction.

**Substantiation:** This term is used in the standard and needs to be differentiated from Fire-Resistant Construction.

**Committee Meeting Action: Accept**

**Number Eligible to Vote:** 16

**Ballot Results:** Affirmative: 12

**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-3 Log #CC3 **Final Action: Accept**  
( 3.3.21 Flammable Liquid )

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1

**Recommendation:** Revise 3.3.21 as follows:

**3.3.21\* Flammable Liquid.** Any liquid that has a closed-cup flash point below 100°F (37.8°C), as determined by the test procedures and apparatus set forth in 1.7.4. Flammable liquids are classified as Class I as follows: Class I Liquid — any liquid that has a closed-cup flash point below 100°F (37.8°C) and a Reid vapor pressure not exceeding 40 psia (2068.6 mm Hg) at 100°F (37.8°C), as determined by ASTM D 323, Standard Method of Test for Vapor Pressure of Petroleum Products (Reid Method). Class I liquids are further classified as follows: (1) Class IA liquids — those liquids that have flash points below 73°F (22.8°C) and boiling points below 100°F (37.8°C); (2) Class IB liquids — those liquids that have flash points below 73°F (22.8°C) and boiling points at or above 100°F (37.8°C); (3) Class IC liquids — those liquids that have flash points at or above 73°F (22.8°C), but below 100°F (37.8°C). A liquid that has a closed-cup flash point that is below 37.8°C (100°F) and a maximum vapor pressure of 2068 mm Hg (40 psia) at 37.8°C (100°F).

**Substantiation:** Use the preferred definition from NFPA 30.

**Committee Meeting Action: Accept**

**Number Eligible to Vote:** 16

**Ballot Results:** Affirmative: 12

**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-4 Log #CC4 **Final Action: Accept**  
( 3.3.33 Mobile )

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1

**Recommendation:** Delete 3.3.33:

**3.3.33 Mobile.** Any equipment in use without its own motive power train and normally moved by self-propelled equipment.

**Substantiation:** Definition is redundant.

**Committee Meeting Action: Accept**

**Number Eligible to Vote:** 16

**Ballot Results:** Affirmative: 12

**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-5 Log #CC5 **Final Action: Accept**  
( 3.3.36 Noncombustible Material )

**Submitter:** Technical Committee on Mining Facilities

**Comment on Proposal No:** 120-1

**Recommendation:** Delete 3.3.36:

**3.3.36 Noncombustible Material.** A material that will continue to serve its intended function for 1 hour when subjected to a fire test incorporating an ASTM E119-88 time/temperature heat input or equivalent.

**Substantiation:** This definition conflicts with the definition of non-combustible.

**Committee Meeting Action: Accept**

**Number Eligible to Vote:** 16

**Ballot Results:** Affirmative: 12

**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-6 Log #CC6 **Final Action: Accept**  
( 3.3.45 Return Airway. TBD )

**Submitter:** Technical Committee on Mining Facilities

**Comment on Proposal No:** 120-1

**Recommendation:** Delete 3.3.45:

**3.3.45 Return Airway.** TBD

**Substantiation:** This definition is understood by the users and AHJ's.

**Committee Meeting Action: Accept**

**Number Eligible to Vote:** 16

**Ballot Results:** Affirmative: 11 Abstain: 1

**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

**Explanation of Abstention:**

STEWART: TBD should be defined by the committee or use the dictionary term.

120-7 Log #CC7 **Final Action: Accept**  
( Chapter 4 )

**Submitter:** Technical Committee on Mining Facilities

**Comment on Proposal No:** 120-1

**Recommendation:** Revise the title as shown:

Chapter 4 8 Storage and Use of Compressed Gases, Flammable and Combustible Liquids and Gases

**Substantiation:** Chapter 4 (new Chapter 8) also includes compressed gases.

**Committee Meeting Action: Accept**

**Number Eligible to Vote:** 16

**Ballot Results:** Affirmative: 12

**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-8 Log #CC8 **Final Action: Accept**  
( Chapter 4 )

**Submitter:** Technical Committee on Mining Facilities

**Comment on Proposal No:** 120-1

**Recommendation:** This chapter will be moved to Chapter 8 and renumbered. The existing Chapter 8 will be Chapter 9, existing Chapter 9 will be 10, existing Chapter 7 will be 6, existing Chapter 6 will be 5, existing Chapter 5 will be 4.

**Substantiation:** The new reordering of the standard flows better and is consistent with mining operations.

**Committee Meeting Action: Accept**

**Number Eligible to Vote:** 16

**Ballot Results:** Affirmative: 12

**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-9 Log #CC9 **Final Action: Accept**  
( 4.1.1.9 )

**Submitter:** Technical Committee on Mining Facilities

**Comment on Proposal No:** 120-1

**Recommendation:** Move Section 4.1.1.9 to Section 4.1.2.3 and renumber existing 4.1.2.3 as 4.1.2.4.

**Substantiation:** This section was moved as electrical cutting should be under fire prevention.

**Committee Meeting Action: Accept**

**Number Eligible to Vote:** 16

**Ballot Results:** Affirmative: 12

**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-10 Log #CC10  
(4.1.2.4(1)) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 4.1.2.4(1) to read:  
 (1) The immediate area shall be cleaned and ~~cleared of combustible material and, if underground then~~ wetted down with water or coated with rock dust.  
**Substantiation:** Wetting down is not practical in all cases.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-11 Log #CC11  
(4.1.2.6) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 4.1.2.6 as follows:  
 4.1.2.6 Where welding or cutting with an arc or flame is performed where combustible materials are present and cannot be removed or protected from ignition sources, a person ~~fire watch equipped with extinguishing devices shall be stationed provided, to guard against fire due to sparks.~~  
**Substantiation:** Sections 4.1.2.9, 4.1.2.10 and 4.1.2.11 were moved to 4.1.2.6 to make the chapter read better. 4.1.2.6 was modified to require a fire watch and not list the responsibilities and new text includes material from 4.1.2.9 through 4.1.2.11.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-12 Log #CC12  
(4.1.2.9, 4.1.2.10, 4.1.2.11) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Move 4.1.2.9, 4.1.2.10, and 4.1.2.11 to Section 4.1.2.6.  
**Substantiation:** This makes the chapter flow and read better.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-13 Log #CC13  
(4.1.5.7) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 4.1.5.7 as follows:  
 4.1.5.7 Outside storage areas shall be kept clear of dry vegetation and combustible materials for a minimum distance of ~~15~~ 25 ft.  
**Substantiation:** 25 feet coordinates with MSHA requirements.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-14 Log #CC14  
(4.3) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 4.3 as follows:  
 4.3 Flammable and Combustible Liquid Storage Tanks on the Surface. Flammable and combustible liquids shall be stored and handled in accordance with NFPA 30, Flammable and Combustible Liquids Code.  
**Substantiation:** The reference to NFPA 30 is redundant.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-15 Log #CC15  
(4.3.1.2) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 4.3.1.2 as follows:  
 4.3.1.2\* The tank shall have ~~be~~ be ~~approved~~ approved ~~listed for its use, from Underwriters Laboratories or the American Petroleum Institute.~~  
**Substantiation:** Listed is a defined term which is not associated with any particular authority.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-16 Log #CC16  
(4.3.3.3.2) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 4.3.3.3.2 as follows:  
 4.3.3.3.2 The relief ~~can~~ shall be in the form of relief valve or a weak roof-to-shell seam.  
**Substantiation:** This is a mandatory requirement.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-17 Log #CC17  
(4.3.3.4) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Change the reference from 5.3.3.3 to 4.3.3.3.  
**Substantiation:** Editorial.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-18 Log #CC18  
(4.3.5.1, 4.3.5.2, 4.3.5.3) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** In 4.3.5.1, 4.3.5.2 and 4.3.5.3 change “Belowground” to “Buried”. The section should read as follows:  
 4.3.5.1 ~~Belowground~~ Buried tanks with flammable liquids shall have a leak detection program in effect.  
 4.3.5.2 Accurate inventory records of ~~belowground~~ buried tanks with flammable liquids shall be maintained.  
 4.3.5.3 ~~Belowground~~ Buried tanks shall be equipped with an overfill alarm interlocked to shut off the feed when the tank is 95 percent full and to alarm at 90 percent.  
**Substantiation:** The term buried is more correct.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-19 Log #CC19  
(4.4.1) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 4.4.1 as follows:  
 4.4.1 The storage, use, and handling of flammable and combustible liquids in surface buildings shall conform with NFPA 30, Flammable and Combustible Liquids Code, except Sections ~~2-8~~ 4.6.7, 4.7.6.7, and 5.5.7.5, and Chapters ~~1-6, 7, and 9~~ 1, 2, and 3.  
**Substantiation:** Updated references.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

|   |                             |   |                             |
|---|-----------------------------|---|-----------------------------|
| 120-20 Log #CC20<br>(4.5.2.1)   | <b>Final Action: Accept</b> | 120-25 Log #CC25<br>(4.5.4.2)   | <b>Final Action: Accept</b> |
| <b>Submitter:</b> Technical Committee on Mining Facilities<br><b>Comment on Proposal No:</b> 120-1<br><b>Recommendation:</b> In 4.5.2.1 change “3.8 L” to “18.9 L”.<br><b>Substantiation:</b> Editorial.<br><b>Committee Meeting Action: Accept</b><br><b>Number Eligible to Vote:</b> 16<br><b>Ballot Results:</b> Affirmative: 12<br><b>Vote Not Returned:</b> 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN   |                             | <b>Submitter:</b> Technical Committee on Mining Facilities<br><b>Comment on Proposal No:</b> 120-1<br><b>Recommendation:</b> Revise 4.5.4.2 to read as follows:<br><b>4.5.4.2</b> Transferring flammable liquids by means of <u>an electric pump or</u> pressurizing a container with air shall be prohibited.<br><b>Substantiation:</b> Electric pumps are not allowed to transfer flammable liquids because of the potential ignition source.<br><b>Committee Meeting Action: Accept</b><br><b>Number Eligible to Vote:</b> 16<br><b>Ballot Results:</b> Affirmative: 11 Negative: 1<br><b>Vote Not Returned:</b> 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN<br><b>Explanation of Negative:</b><br>WATZMAN: We are concerned that the recommendation will negatively impact an operator’s ability to remove flammable liquids stored in underground tanks where the liquid is used for surface applications. We are not aware of alternative methods to dispense the liquid without the use of an electric pump and, as such, must recommend against adoption of this recommendation. |                             |
| 120-21 Log #CC21<br>(4.5.3.1)   | <b>Final Action: Accept</b> | 120-26 Log #CC26<br>(4.5.4.4)   | <b>Final Action: Accept</b> |
| <b>Submitter:</b> Technical Committee on Mining Facilities<br><b>Comment on Proposal No:</b> 120-1<br><b>Recommendation:</b> Revise 4.5.3.1 to read as follows:<br><b>4.5.3.1</b> Flammable liquids shall be stored in one of the following:<br>(1) <u>Noncombustible Listed or approved noncombustible storage cabinets</u><br>(2) <u>Cabinets meeting the requirements specified in Section 4.3 of NFPA 30, Flammable and Combustible Liquids Code</u><br>(3) <u>An enclosure of fire resistive construction</u> Areas specifically designed and constructed for such storage<br><b>Substantiation:</b> Sections 4.5.3.1.1 and 4.5.3.1.2 were combined in this section. The cabinets need to be listed or approved and the enclosure needs to be noncombustible construction and not just a designated area.<br><b>Committee Meeting Action: Accept</b><br><b>Number Eligible to Vote:</b> 16<br><b>Ballot Results:</b> Affirmative: 12<br><b>Vote Not Returned:</b> 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN |                             | <b>Submitter:</b> Technical Committee on Mining Facilities<br><b>Comment on Proposal No:</b> 120-1<br><b>Recommendation:</b> Delete 4.5.4.4.<br><b>Substantiation:</b> Electric pumps are an ignition source and not allowed.<br><b>Committee Meeting Action: Accept</b><br><b>Number Eligible to Vote:</b> 16<br><b>Ballot Results:</b> Affirmative: 11 Negative: 1<br><b>Vote Not Returned:</b> 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN<br><b>Explanation of Negative:</b><br>WATZMAN: See my Explanation of Negative Vote on Comment 120-25 (Log #CC25).  |                             |
| 120-22 Log #CC22<br>(4.5.3.1.1, 4.5.3.1.2)  | <b>Final Action: Accept</b> | 120-27 Log #CC27<br>(4.5.4.5)   | <b>Final Action: Accept</b> |
| <b>Submitter:</b> Technical Committee on Mining Facilities<br><b>Comment on Proposal No:</b> 120-1<br><b>Recommendation:</b> Delete Sections 4.5.3.1.1 and 4.5.3.1.2.<br><b>Substantiation:</b> These sections were incorporated into Section 4.5.3.1.<br><b>Committee Meeting Action: Accept</b><br><b>Number Eligible to Vote:</b> 16<br><b>Ballot Results:</b> Affirmative: 12<br><b>Vote Not Returned:</b> 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN   |                             | <b>Submitter:</b> Technical Committee on Mining Facilities<br><b>Comment on Proposal No:</b> 120-1<br><b>Recommendation:</b> Delete 4.5.4.5.<br><b>Substantiation:</b> Safety cans are already required which contain these features.<br><b>Committee Meeting Action: Accept</b><br><b>Number Eligible to Vote:</b> 16<br><b>Ballot Results:</b> Affirmative: 12<br><b>Vote Not Returned:</b> 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN  |                             |
| 120-23 Log #CC23<br>(4.5.3.3)   | <b>Final Action: Accept</b> | 120-28 Log #CC28<br>(4.6.1.2)   | <b>Final Action: Accept</b> |
| <b>Submitter:</b> Technical Committee on Mining Facilities<br><b>Comment on Proposal No:</b> 120-1<br><b>Recommendation:</b> Change “7.6 L” to “227 L”.<br><b>Substantiation:</b> Editorial.<br><b>Committee Meeting Action: Accept</b><br><b>Number Eligible to Vote:</b> 16<br><b>Ballot Results:</b> Affirmative: 12<br><b>Vote Not Returned:</b> 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN   |                             | <b>Submitter:</b> Technical Committee on Mining Facilities<br><b>Comment on Proposal No:</b> 120-1<br><b>Recommendation:</b> Revise 4.6.1.2 as follows:<br><b>4.6.1.2</b> Combustible liquids in approved tanks or containers meeting the following requirements <del>shall not require any special consideration and are exempt from the requirements for storage areas:</del><br>(1) Class II combustible liquids stored in containers meeting the requirements of this chapter and not exceeding 227 L (60 gal)<br>(2) Class III combustible liquids stored in containers or approved tanks as specified in this chapter and not exceeding 2498 L (660 gal)<br><b>Substantiation:</b> Wording not needed.<br><b>Committee Meeting Action: Accept</b><br><b>Number Eligible to Vote:</b> 16<br><b>Ballot Results:</b> Affirmative: 12<br><b>Vote Not Returned:</b> 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN   |                             |
| 120-24 Log #CC24<br>(4.5.4.1)   | <b>Final Action: Accept</b> | 120-29 Log #CC29<br>(4.6.5.2.9)   | <b>Final Action: Accept</b> |
| <b>Submitter:</b> Technical Committee on Mining Facilities<br><b>Comment on Proposal No:</b> 120-1<br><b>Recommendation:</b> Revise 4.5.4.1 as follows:<br><b>4.5.4.1</b> Flammable liquids shall be drawn from or transferred into containers <del>within a storage area</del> using only the following methods:<br>(1) From safety cans<br>(2) From a container by means of a device that draws through an opening in the top of the container<br>(3) By gravity through a listed or approved self-closing valve or self-closing faucet<br><b>Substantiation:</b> There may be other areas where flammable liquids are transferred.<br><b>Committee Meeting Action: Accept</b><br><b>Number Eligible to Vote:</b> 16<br><b>Ballot Results:</b> Affirmative: 12<br><b>Vote Not Returned:</b> 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN  |                             | <b>Submitter:</b> Technical Committee on Mining Facilities<br><b>Comment on Proposal No:</b> 120-1<br><b>Recommendation:</b> Revise 4.6.5.2.9 as follows:<br><b>4.6.5.2.9</b> The storage area enclosure shall be vented directly to the return <u>or the surface</u> .<br><b>Substantiation:</b> This provides an alternative for venting.<br><b>Committee Meeting Action: Accept</b><br><b>Number Eligible to Vote:</b> 16<br><b>Ballot Results:</b> Affirmative: 12<br><b>Vote Not Returned:</b> 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN  |                             |

120-30 Log #CC30  
(4.6.5.2.13) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete 4.6.5.2.13.  
**Substantiation:** This is redundant with 4.6.5.2.9.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-31 Log #CC31  
(4.6.5.2.16) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 4.6.5.2.16 as follows:  
4.6.5.2.16 The aggregate quantity of Class II and Class III combustible liquids in a fixed combustible liquid storage area shall not exceed 3785 ~~18,925~~ L (5400 gal), of which Class II shall not exceed 3785 L (1000 gal).  
**Substantiation:** This correlates with the definition.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-32 Log #CC32  
(4.6.6) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 4.6.6 as follows:  
4.6.6 **Fixed Storage Areas for Class III Combustible Liquids.** Class III combustible liquids shall be stored in fire-resistive containers within an enclosure of fire-resistant construction, ivc enclosure and in fire-resistive containers.  
**Substantiation:** Editorially reversed the order of fire-resistant containers and enclosures.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-33 Log #CC33  
(4.6.7.1) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 4.6.7.1 as follows:  
4.6.7.1 Where combustible liquids are stored on mobile equipment such as mobile service trucks, the equipment shall be parked at a fixed location or a location that meets the requirements of 4.6.4 ~~a portable combustible liquid storage area~~ when not in use.  
**Substantiation:** Section 4.6.4 specifies the requirements.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-34 Log #CC34  
(5.2.2.1) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 5.2.2.1 as follows:  
5.2.2.1 The methane monitors shall be ~~arranged to~~ alarm at 1 percent concentration and be interlocked to shut down the machine at a 2 percent concentration of methane.  
**Substantiation:** Editorial.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-35 Log #CC35  
(5.3.2.2.11.1) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise to read as follows:  
5.3.2.2.11.1 The alarm system shall be inspected weekly, and a functional test of the complete system shall be made ~~annually~~ every 6 months.  
**Substantiation:** This change to 6 months coordinates with other standards.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-36 Log #CC36  
(5.3.2.3.3) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise to read as follows:  
5.3.2.3.3 At least every ~~6~~ 12 months, all fire detection systems, including alarms, shutdowns, and other associated equipment, shall be maintained and tested in accordance with the manufacturer's or designer's instruction manual.  
**Substantiation:** This change to 6 months coordinates with other standards.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-37 Log #CC37  
(5.3.4.3.1.1, 5.3.4.3.1.2) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Reverse the order of existing 5.3.4.3.1.1 and 5.3.4.3.1.2 as follows:  
5.3.4.3.1.1 Portable foam generators, fire hose, foam concentrate, and emergency fire fighting materials in accordance with 5.3.4.5 shall be accessible within 60 minutes of fire notification.  
5.3.4.3.1.2 Portable foam-generating devices and associated equipment shall be listed or approved for that purpose.  
**Substantiation:** Rewording flows and reads better.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-38 Log #CC38  
(5.3.4.6.3) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise as follows:  
All persons who ~~might be expected to~~ inspect, test, operate, or maintain fire suppression systems shall be trained in the functions they are to perform.  
**Substantiation:** Not all employees will inspect test systems.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 11 Abstain: 1  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN  
**Explanation of Abstention:**  
LUPU: Does not address who should train persons performing inspections. At a minimum the system manufacturer or his representative should train the trainer.

120-39 Log #CC39  
(6.3.5.3.4) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise as follows:  
6.3.5.3.4 ~~Dragline L~~ube oil rooms shall have automatic door closers or shall have the door interlocked to shut upon actuation of the fire suppression system.  
**Substantiation:** There are other means of closing the door.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-40 Log #CC40  
(6.3.5.6.1) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise as follows:  
**6.3.5.6.1** Minimum 100-lb ABC-type extinguishers shall be accessible to persons on the main deck of the shovel or dragline.  
**Substantiation:** Shovels are not configured adequately to have a 100-lb ABC type extinguisher.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-41 Log #CC41  
(6.3.6.1) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise as follows:  
**6.3.6.1\*** An automatic dry-chemical fire suppression shall be provided over the hydraulic pumps and engine compartment.  
**Substantiation:** There are other types of extinguishing systems.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-42 Log #CC42  
(6.3.6.1.1) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete old 6.3.6.1.1 and replace with new 6.3.6.1.1 as follows:  
**6.3.6.1.1\*** For hydraulic systems above 150 gal in the lines, a dual agent system shall be provided.  
**Substantiation:** There are other types of activation methods and dual agent use is an alternative suppression method in some cases.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-43 Log #CC43  
(6.3.7.3.1) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 6.3.7.3.1 as follows:  
**6.3.7.3.1** Dozers, endloaders, drills, and Hhaul trucks over 85 tons capacity shall have a fixed fire suppression system protecting the engine compartment and hydraulic pump and other hazard areas.  
**Substantiation:** Not all types of equipment need to be protected by a fire suppression system.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-44 Log #CC44  
(6.3.7.3.1.1) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Add new 6.3.7.3.1.1 as follows:  
**6.3.7.3.1.1\*** Other large mining equipment such as but not limited to dozers, endloaders, drills, graders and scrapers shall have a fixed fire suppression system protecting the engine compartment and hydraulic pump and other hazard areas.  
**Substantiation:** There are other large pieces of equipment that need to be protected with a fixed suppression system.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-45 Log #CC46  
(6.3.7.3.2(1)) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 6.3.7.3.2(1) as follows:  
 (1) The fire suppression system shall be listed or approved for the purpose.  
**Substantiation:** The language is more universal.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-46 Log #CC47  
(8.4.3) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 8.4.3 as follows:  
**8.4.3** For warehouse areas Other than shops, the quantity of combustible liquids outside of a flammable liquids storage cabinet or room constructed in accordance with NFPA 30, shall not exceed 120 gal.  
**Substantiation:** This restriction applies to more than just warehouses.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-47 Log #CC48  
(9.1.1(2)) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise 9.1.1(2) to read as follows:  
 (2) Motion-sensing Slip switches shall be provided to detect a slipping or jammed belt and shall be interlocked to shut off driving power when the belt stops or slows down by more than 20 percent of its normal speed.  
**Substantiation:** New terminology is used by the industry.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-48 Log #CC49  
(9.3.2, 9.3.3) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Reverse the order of 9.3.2 and 9.3.3 as follows:  
**9.3.2~~3~~** Equipment shall be interlocked to de-energize upon a 2 percent concentration of methane.  
**9.3.3** Portable methane detectors are an acceptable alternative to fixed detectors, provided a reading is taken once per shift.  
**Substantiation:** Allows portable methane detectors to be used in lieu of a fixed detector.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-49 Log #CC50  
(9.4.6.1) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise to read as follows:  
**9.4.6.1** Deluge water spray systems, foam systems, or closed-head sprinkler systems, or dry chemical systems automatically actuated by rise in temperature shall be installed at main and secondary belt conveyor drives.  
**Substantiation:** Dry chemical systems are a valid technology.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-50 Log #CC51  
(9.4.6.2) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Add a new 9.4.6.2 and renumber:  
**9.4.6.2** Fire suppression systems shall extend to the belt drive, hydraulic take-up unit electrical controls, discharge roller, drive motors, gear reducing unit, and conveyor belt to a distance of 50 ft on the downwind side.  
**Substantiation:** Fire suppression is needed to protect some of the high risk ignition points.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-51 Log #CC52  
(9.4.6.2) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise existing 9.4.6.2 and delete existing 9.4.6.3 as follows:  
**9.4.6.2** Piping for the deluge, foam, or closed-head sprinkler system shall be metal and ~~UL~~ listed for sprinkler applications.  
**Substantiation:** The reference to a specific testing laboratory is too restrictive.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-52 Log #CC53  
(9.4.6.13(1)) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise to read as follows:  
**9.4.6.13** Sprinkler systems shall meet the following:  
 (1) The sprinklers shall be installed in accordance with NFPA 13, Standard for the Installation of Sprinkler Systems, as far as practicable, and shall have components that have been listed by ~~Underwriters Laboratories Inc. or Factory Mutual Research Corporation.~~  
**Substantiation:** The standard should not state any specific testing laboratories.  
**Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-53 Log #CC54  
(9.4.7.5) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Change the reference in 9.4.7.5 from “9.4.3.4” to “9.4.7.4”.  
**Substantiation:** Editorial.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-54 Log #CC55  
(9.5.2.9) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise as follows:  
**9.5.2.9** ~~Deluge water spray systems, foam systems, closed-head sprinkler systems or dry chemical systems automatically actuated by rise in temperature shall be installed over the belt drive areas on top of a silo.~~  
 Fire protection shall be provided over the belt drive areas on top of a silo.  
**Substantiation:** The revised requirement specifies specific suppression systems.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-55 Log #CC56  
(11.2.2) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise as follows:  
**11.2.2 Fire-fighting Team.** ~~Underground~~ Mines shall have a fire-fighting team trained in basic fire-fighting techniques — for example, hose streams and foam generation.  
**Substantiation:** Underground is redundant.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 11 Abstain: 1  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN  
**Explanation of Abstention:**  
 WATZMAN: The recommendation includes examples of training for certain fire fighting techniques. The examples are not inclusive of all training necessary and the two examples cited are not in use at all facilities. We recommend that the examples be stricken from the recommendation as they confuse rather than clarify the intent of the recommendation.

120-56 Log #CC57  
(A.1.1, A.1.1.1) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete A.1.1 and A.1.1.1.  
**Substantiation:** The information is outdated.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-57 Log #CC58  
(A.1.1.1) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Add new A.1.1.1 as follows:  
 In developing this document, the data available in NIOSH Information Circular XXXX, “Analysis of Mine Fires For All Underground and Surface Coal Mining Categories: 1990 – 1999,” was examined. Table A.1.1.1 shows the number of fires for underground coal mines, surface fires at underground coal mines, fires for surface coal mines, and fires at coal preparation plants, as well as the number of fire injuries and coal reduction for the time period from 1990 to 1999.

| Description  | Year      |           |           |           |           | Total  |
|--|-----------|-----------|-----------|-----------|-----------|--------|
|  | 1990-1991 | 1992-1993 | 1994-1995 | 1996-1997 | 1998-1999 |        |
| No. of fires <sup>1</sup>                          |           |           |           |           |           |        |
| Underground Coal Mines                             | 25        | 18        | 23        | 6         | 15        | 87     |
| Surface at Underground Coal Mines                  | 17        | 14        | 16        | 7         | 11        | 65     |
| Surface Coal Mines                                 | 67        | 37        | 47        | 40        | 24        | 215    |
| Coal Preparations Plants                           | 23        | 22        | 18        | 8         | 20        | 91     |
| Total  | 132       | 91        | 104       | 61        | 70        | 458    |
| Number of Fire Injuries <sup>1</sup>               | 59        | 29        | 39        | 19        | 18        | 164    |
| Coal Production <sup>2</sup> , 10 <sup>6</sup> st. | 2,004     | 1,928     | 2,059     | 2,155     | 2,218     | 10,364 |

<sup>1</sup>Derived from MSHA "Fire Accident Abstract" and "Fire Accident Report" publications.  
<sup>2</sup>Derived from MSHA "Injury Experience in Coal Mining" publications.

Analysis of the data shows a general decrease in the number of fires over the 10 year period, particularly from 1996 to 1999, while coal production increased slightly. The largest number of fires over the 10 year period, as well as for each 2 year time period, occurred at surface coal mines. There were 164 injuries due to fire during this period, with the number decreasing significantly over the last 4 year period. There were 2 fatalities in 1991.  
**Substantiation:** The information is more current.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-58 Log #CC59 **Final Action: Accept**  
 ( A.1.3.2, A.1.3 )

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Change A.1.3.2 to A.1.3.  
**A.1.3.2** Because of the uniqueness of coal mining, provisions in this standard can differ from commonly accepted fire protection standards and guides for other types of occupancies.  
**Substantiation:** Editorial.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-59 Log #CC60 **Final Action: Accept**  
 ( A.3.3.8, A.3.3.21 )

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete A.3.3.8 and A.3.3.21.  
**Substantiation:** The committee used the preferred definitions from NFPA 30.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-60 Log #CC61 **Final Action: Accept**  
 ( A.4.1.2.4 )

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
 Change "A.4.1.2.4" to "A.4.1.2.5".  
**A.4.1.2.5** If the coal is susceptible to spontaneous combustion, water should not be used to wet down the area. Rock dust should be used.  
**Substantiation:** Editorial.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-61 Log #CC62 **Final Action: Accept**  
 ( A.4.6.5 )

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Add new A.4.6.5 as follows:  
**A.4.6.5** The principal Class II combustible liquid used in a coal mine is diesel fuel.  
**Substantiation:** Diesel fuel is the most common Class II combustible used in mines.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-62 Log #CC63 **Final Action: Accept**  
 ( A.5.3.2.1.4 )

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise as follows:  
**A.5.3.2.1.4** Electrical equipment classified as "permissible" or "intrinsically safe" is certified as meeting the requirements of 30 CFR, Part 18, Chapter 1.  
**Substantiation:** Specific reference is not needed.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-63 Log #CC65 **Final Action: Accept**  
 ( A.5.3.2.2 )

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete A.5.3.2.2.  
**Substantiation:** Heat detectors should be installed above the belt.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-64 Log #CC64 **Final Action: Accept**  
 ( A.5.3.2.2.1 )

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise as follows:  
**A.5.3.2.2.1** Based upon NIOSH Bureau of Mines Report of Investigation 9570, Hazards of Conveyor Belt Fires-1995 data, CO and smoke detectors provide a significant improvement over point type heat detectors in warning of a potential fire on conveyor belts.  
**Substantiation:** The information was corrected.  
**Committee Meeting Action:** Accept  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-65 Log #CC66  
( A.5.3.2.2.3 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Add new A.5.3.2.2.3 as follows:  
A.5.3.2.2.3 U.S. Bureau of Mines Report of Investigation 9380, Fire Detection for Conveyor Belt Entries-1991 provides information on smoke and CO sensor alarm levels and sensor spacing as a function of belt entry cross-sectional area and belt entry air velocity.  
**Substantiation:** This provides more information on conveyor belts.  
**Committee Meeting Action:** **Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-66 Log #CC67  
( A.5.3.3 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete A.5.3.3.  
**Substantiation:** The requirement allows for different systems to be used.  
**Committee Meeting Action:** **Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-67 Log #CC69  
( A.5.3.3.2(1) ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise A.5.3.3.2.1(1) as follows:  
A.5.3.3.2.1(1) Under Report No. H0122086, "Suppression of Fires on Underground Coal Mine Conveyor Belts," the Department of the Interior, U.S. Bureau of Mines (USBM) conducted a series of full-scale fire tests. These are the only tests known that used typical mine conveyor belting on typical mine-conveyor structures without a deck between the upper and lower strands of the belt.  
**Substantiation:** More detailed information was given for the test reports and its findings.  
**Committee Meeting Action:** **Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-68 Log #CC68  
( A.5.3.3.2.1(8) ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise as follows:  
(8) The initial investment is low.  
The major problem associated with automatic sprinkler systems in underground coal mines is the possibility of exposure to freezing conditions during cold weather. Another problem that can exist in very deep mines is that some of the listed components for automatic sprinkler systems might be unable to withstand the very high water pressure encountered (see U.S. Bureau of Mines Report of Investigation 9451, Effect of Pressure on Leakage of Automatic Sprinklers-1993). It is not uncommon to encounter pressures above a gauge pressure of 3448 kPa (500 psi). The committee recommends testing sprinkler system components under anticipated maximum pressures. If sprinkler components are found to be unable to withstand the maximum pressure of the water line, the use of pressure regulators might be necessary. Experience has shown that pressure regulators can require considerable maintenance. Also, if the pressure regulating valve should leak, it might be necessary to provide a small relief valve on the discharge side of the regulating valve to prevent overpressure.  
**Substantiation:** The reference to a specific test report was given for information.  
**Committee Meeting Action:** **Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-69 Log #CC70  
( A.5.3.3.3.1 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise A.5.3.3.1 as follows:  
A.5.3.3.3.1 Underground shaft mines that use diesel-powered equipment generally employ underground diesel fuel storage areas to facilitate equipment refueling. Adit-type mines in the western United States might initially locate diesel fuel storage and refueling facilities on the surface; however, as the active mine workings progress farther from the adit portal(s), these facilities will likely be moved underground.  
A common means of fire protection currently found in many underground diesel fuel storage areas is the use of fixed water sprinkler systems. ~~The federal Mine Safety and Health Administration (MSHA) currently approves such systems for this application.~~ However, it is felt that this situation represents a significant safety hazard. According to the NFPA Fire Protection Handbook, water sprinklers can be permitted to be used on diesel fuel for control but not for extinguishment.  
**Substantiation:** MSHA does not approve any systems.  
**Committee Meeting Action:** **Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-70 Log #CC71  
( A.5.3.3.3.2.8 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise as follows:  
A.5.3.3.3.2.8 Some automatic sprinklers might not withstand the water pressure that can be encountered in deep mines. Information on the effect of high water pressure on automatic sprinklers can be found in U.S. Bureau of Mines Report of Investigations 9451, "Effect of Pressure on Leakage of Automatic Sprinklers."  
Under U.S. Bureau of Mines Report of Investigation 9538, Performance of Automatic Sprinkler Systems for Extinguishing Incipient and Propagating Conveyor Belt Fires Under Ventilated Conditions, NIOSH conducted a series of full-scale fire tests under ventilated conditions of 1.1 (225) and 4.0 (800) m/s (ft/min) for fires up to 10.8 MW. The tests demonstrated that pendent and horizontal sidewall types were both able to extinguish incipient belt fires. Directional sprinklers showed a slightly improved performance in terms of maximum heat release rate at the lower airflow. Both pendent and horizontal sidewall sprinkler types were able to extinguish propagating fires. Horizontal sidewall sprinklers showed an increased effectiveness compared to the pendent sprinklers because of the increased upstream coverage area of the water discharge in terms of maximum heat release rate.  
**Substantiation:** More information was added on test results.  
**Committee Meeting Action:** **Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-71 Log #CC72  
( A.6.1 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete A.6.1.  
**Substantiation:** The information was outdated.  
**Committee Meeting Action:** **Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-72 Log #CC73  
( A.6.3.6.1 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete A.6.3.6.1.  
**Substantiation:** This information was moved to the body.  
**Committee Meeting Action:** **Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-73 Log #CC74  
( A.6.3.6.1.1 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Add new A.6.3.6.1.1 as follows:  
A.6.3.6.1.1 Equipment in this category is generally a vehicle weight of 200,000 lbs. or more and the size of a Hitachi 1800, Caterpillar 5230, Komatsu PC1000-6, Liebherr R984, DeMag H95 and Hitachi 1100.  
**Substantiation:** Helps define the equipment by stating specific models.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-74 Log #CC75  
( A.6.3.7 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete A.6.3.7 as follows:  
A.6.3.7 Sec Annex B.  
**Substantiation:** Annex B is being deleted.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-75 Log #CC45  
( A.6.3.7.3.1.1 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Add new A.6.3.7.3.1.1 as follows:  
A.6.3.7.3.1.1 Examples of large equipment are: track dozer of 300 h.p. or more or 70,000 lbs. weight or more (i.e. Caterpillar D8R), front end loader of 400 h.p. or more and vehicle weight 100,000 lbs (i.e. Caterpillar 988), wheel dozer of 300 h.p. or more and vehicle weight of 60,000 lbs. or more (i.e. Caterpillar 824G) grader of 275 h.p. or more and vehicle weight of 55,000 lbs. or more (i.e. Caterpillar 16H), scraper the pull type of 450 h.p. or more and vehicle weight of 98,000 lbs. or more (Caterpillar 631E), scraper push/pull twin engine of 450 h.p. and 490 h.p. or more and vehicle weight of 113,000 lbs. or more (i.e. Caterpillar 637E) and blast hole drill of 360 h.p. or more and weight of 68,000 lbs. or more (i.e. Ingersol-Rand DM-30).  
**Substantiation:** The annex gives examples of large equipment.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-76 Log #CC76  
( A.7.2.1.4.1 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise as follows:  
Electrical equipment classified as “permissible” is certified as meeting the requirements of Chapter I of 30 CFR 18.  
**Substantiation:** Specific reference is not needed.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-77 Log #CC77  
( A.7.2.2.1.2 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete A.7.2.2.1.2.  
**Substantiation:** This information is not needed any more.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-78 Log #CC78  
( A.7.4.1 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Change cross reference in text from, “Section 4.5” to “Section 7.3”.  
**Substantiation:** Editorial.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-79 Log #CC79  
( A.9.1.1 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Revise as follows:  
A.9.1.1 U.S. Mine Safety and Health Administration Standards found in 30 CFR for fire-retardant conveyor belt materials should be used as a guide. Fire-retardant belt materials will burn and, therefore, might require additional fire protection.  
**Substantiation:** The reference was needed.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-80 Log #CC80  
( A.9.4.7 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete A.9.4.7.  
**Substantiation:** The references are no longer needed.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-81 Log #CC81  
( A.9.4.7.7 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete A.9.4.7.7.  
**Substantiation:** Material is no longer needed.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-82 Log #CC82  
( Annex B ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete Annex B.  
**Substantiation:** A fire risk assessment is not used in NFPA 120.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-83 Log #CC83  
( C.1.2.1 ) **Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities  
**Comment on Proposal No:** 120-1  
**Recommendation:** Delete C.1.2.1.  
**Substantiation:** Reference was deleted.  
**Committee Meeting Action: Accept**  
**Number Eligible to Vote:** 16  
**Ballot Results:** Affirmative: 12  
**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-84 Log #CC84  
( C.1.2.7 )

**Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities

**Comment on Proposal No:** 120-1

**Recommendation:** Revise C.1.2.7 as follows:

**C.1.2.7 MSHA Publications.** National Mine Health and Safety Academy, Beaver, WV (email: [Library@MSHA.gov](mailto:Library@MSHA.gov)). Mine Safety and Health Administration, Bruceton Safety Technology Center, Cochran's Mill Road, P.O. Box 18233, Pittsburgh, PA 15236.

"The Health and Safety Implications of the Use of Diesel-Powered Equipment in Underground Mines," Report by Interagency Task Group prepared for MSHA, 1985.

~~"Mine Fires During 10-Year Period," Memorandum from Lisa A. Tessler to Steven J. Luzik, January 27, 1989.~~

**Substantiation:** Updated references.

**Committee Meeting Action:** Accept

**Number Eligible to Vote:** 16

**Ballot Results:** Affirmative: 12

**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-85 Log #CC85  
( C.1.2.11 )

**Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities

**Comment on Proposal No:** 120-1

**Recommendation:** Revise C.1.2.11 as follows:

**C.1.2.11 U.S. Government Publication.** U.S. Government Printing Office, Washington, DC 20402.

Title 30, Code of Federal Regulations, Part 18, Chapter 1; Part 18.65; Part 75.1107-13

**Substantiation:** Specific parts are not needed.

**Committee Meeting Action:** Accept

**Number Eligible to Vote:** 16

**Ballot Results:** Affirmative: 12

**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN

120-86 Log #CC86  
( C.2.2.5 )

**Final Action: Accept**

**Submitter:** Technical Committee on Mining Facilities

**Comment on Proposal No:** 120-1

**Recommendation:** Revise C.2.2.5 as follows:

**C.2.2.5 Former U.S. Department of Interior Bureau of Mines**

**Publications.** The following former Bureau of Mines reports and articles are available for Open File (OFR) inspection at the following locations: National Institute for Occupational Safety & Health (NIOSH) Facilities: P.O. Box 18070, Pittsburgh, PA 15326 and Spokane, WA; US Geological Survey, Reston, VA; and the National Mine Health and Safety Academy MSHA Technical Information Center and Library, Beaver, WV (email: [Library@MSHA.gov](mailto:Library@MSHA.gov)). They may also be obtained directly from the National Technical Information Service (NIST), 5285 Port Royal Road, Springfield, VA.

**Substantiation:** References were updated.

**Committee Meeting Action:** Accept

**Number Eligible to Vote:** 16

**Ballot Results:** Affirmative: 12

**Vote Not Returned:** 4 BEVINS, DILIBERTO, LYNCH, SULLIVAN