

**FIFTEENTH AMENDED AND RESTATED BYLAWS  
OF  
CME GROUP INC.**

**Approved as of February 5, 2020**

**ARTICLE I  
SHAREHOLDERS' MEETINGS**

***Section 1.1 Annual Meetings.***

(a) The annual meetings of shareholders shall be held on such date, at such time and at such place, either within or without the state of Delaware, as shall be designated from time to time by the Board of Directors and stated in the notice of the meeting.

(b) Nominations of persons for election to the Board of Directors as Equity Directors (as defined in the Certificate of Incorporation) may be made at an annual meeting of shareholders only (i) by or at the direction of the Board of Directors, (ii) by any shareholder of the Corporation who (1) was a shareholder of record at the time of giving of notice provided for in this Section 1.1 and at the time of the annual meeting, (2) is entitled to vote at the meeting and (3) complies with all of the procedures set forth in this Section 1.1 as to such nomination, or (iii) by any Eligible Shareholder (as defined in Section 1.13(d) of these Bylaws) who complies with all of the procedures set forth in Section 1.13 of these Bylaws as to such nomination. Clauses (ii) and (iii) of the immediately preceding sentence shall be the exclusive means for a shareholder to make nominations before an annual meeting of shareholders.

(c) The proposal of business to be considered by the shareholders (other than nominations of persons for election to the Board of Directors as (x) Equity Directors, which may be made only in accordance with the provisions of Section 1.1(b) and (y) Class B Directors (as defined in the Certificate of Incorporation), which may be made only in accordance with the provisions of Article IV) may be made at an annual meeting of shareholders only (i) pursuant to the Corporation's notice of meeting, (ii) by or at the direction of the Board of Directors or (iii) by any shareholder of the Corporation who (1) was a shareholder of record at the time of giving of notice provided for in this Section 1.1 and at the time of the annual meeting, (2) is entitled to vote at the meeting and (3) complies with all of the procedures set forth in this Section 1.1 as to such business. Clause (iii) of the immediately preceding sentence shall be the exclusive means for a shareholder to submit business other than nominations (other than matters brought under Rule 14a-8 under the Securities Exchange Act of 1934, as amended (the "**Exchange Act**"), and included in the Corporation's notice of meeting) before an annual meeting of shareholders.

(d) In addition to any other applicable requirements, for any Equity Director nominations or any other business to be properly brought before an annual meeting by a shareholder pursuant to clause (ii) of Section 1.1(b) of these Bylaws or clause (iii) of Section 1.1(c) of these Bylaws, the shareholder must have given timely notice thereof in proper written form to the Secretary and such other business must otherwise be a proper matter for shareholder action. To be timely, such shareholder's notice shall be delivered to the Secretary at the principal executive offices of the Corporation not earlier than the open of business on the 120th day and not later than the close of business on the 90th day prior to the first anniversary of the preceding year's annual meeting; provided, however, that in the event that the date of the annual meeting is more than 30 days before or more than 60 days after such anniversary date, notice by the shareholder to be timely must be so delivered not earlier than the open of business on the 120th day prior to the date of such annual meeting and not later than the close

of business on the later of the 90th day prior to the date of such annual meeting or, if the first public announcement of the date of such annual meeting is less than 100 days prior to the date of such annual meeting, the 10th day following the day on which public announcement of the date of such meeting is first made by the Corporation. In no event shall any adjournment or postponement of an annual meeting or the announcement thereof commence a new time period (or extend any time period) for the giving of a shareholder's notice as described above.

(e) To be in proper written form, a shareholder's notice to the Secretary given pursuant to this Section 1.1 must: (i) set forth, as to the shareholder giving the notice and the beneficial owner, if any, on whose behalf the nomination or proposal is made, (1) the name and address of such person (including, if applicable, the name and address of such person as they appear on the Corporation's books), (2) (A) the class or series and number of shares of the Corporation which are, directly or indirectly, owned beneficially and of record by such person, or any affiliates of such person, (B) any option, warrant, convertible security, stock appreciation right, or similar right with an exercise or conversion privilege or a settlement payment or mechanism at a price related to any class or series of shares of the Corporation or with a value derived in whole or in part from the value of any class or series of shares of the Corporation, whether or not such instrument or right shall be subject to settlement in the underlying class or series of capital stock of the Corporation or otherwise (a "**Derivative Instrument**") directly or indirectly owned beneficially by such person and any other direct or indirect opportunity to profit or share in any profit derived from any increase or decrease in the value of shares of the Corporation, (C) any proxy, contract, arrangement, understanding or relationship pursuant to which such person has a right to vote any shares of any security of the Corporation, (D) any short interest in any security of the Corporation (for purposes of these Bylaws, a person shall be deemed to have a short interest in a security if such person directly or indirectly, through any contract, arrangement, understanding, relationship or otherwise, has the opportunity to profit or share in any profit derived from any decrease in the value of the subject security), (E) any rights to dividends on the shares of the Corporation owned beneficially by such person that are separated or separable from the underlying shares of the Corporation, (F) any proportionate interest in shares of the Corporation or Derivative Instruments held, directly or indirectly, by a general or limited partnership in which such person is a general partner or, directly or indirectly, beneficially owns an interest in a general partner and (G) any performance-related fees (other than an asset-based fee) that such person is entitled to based on any increase or decrease in the value of shares of the Corporation or Derivative Instruments, if any, as of the date of such notice, including without limitation any such interests held by members of such person's immediate family sharing the same household, and (3) any other information relating to such person, if any, that would be required to be disclosed in a proxy statement or other filings required to be made in connection with solicitations of proxies for, as applicable, the proposal and/or the election of directors in a contested election pursuant to Section 14 of the Exchange Act and the rules and regulations promulgated thereunder; (ii) if the notice relates to any business other than a nomination of one or more Equity Directors that the shareholder proposes to bring before the meeting, set forth (1) a brief description of the business desired to be brought before the meeting, the reasons for conducting such business at the meeting and any material interest in such business of such shareholder and the beneficial owner, if any, on whose behalf the proposal is made, and (2) a description of all agreements, arrangements and understandings between such shareholder and beneficial owner, if any, and any other person or persons (including their names) in connection with the proposal of such business by such shareholder; (iii) set forth, as to each person, if any, whom the shareholder proposes to nominate for election or reelection to the Board of Directors (1) all information relating to such person that would be required to be disclosed in a proxy statement or other filings required to be made in connection with solicitations of proxies for the election of directors in a contested

election pursuant to Section 14 of the Exchange Act and the rules and regulations promulgated thereunder (including such person's written consent to being named in the proxy statement as a nominee and to serving as a Director if elected) and (2) a description of all direct and indirect compensation and other material monetary agreements, arrangements and understandings during the past three years, and any other material relationships, between or among such shareholder and the beneficial owner, if any, on whose behalf the nomination is made, and their respective affiliates and associates, or others acting in concert therewith, on the one hand, and each proposed nominee, and his or her respective affiliates and associates, or others acting in concert therewith, on the other hand, including, without limitation all information that would be required to be disclosed pursuant to Item 404 promulgated under Regulation S-K if the shareholder making the nomination and any beneficial owner on whose behalf the nomination is made, if any, or any affiliate or associate thereof or person acting in concert therewith, were the "registrant" for purposes of such rule and the nominee were a director or executive officer of such registrant; (iv) with respect to each nominee for election or reelection to the Board of Directors, include a completed and signed questionnaire, representation and agreement required by Section 1.3 of these Bylaws; (v) include a representation that the proponent (or a qualified representative thereof) will appear in person at the meeting to present such nomination or propose such business; and (vi) include a statement as to whether the proponent intends to deliver a proxy statement and/or form of proxy to holders of at least the percentage of the Corporation's outstanding shares required to elect its nominee(s) or approve the proposal, as applicable, and/or otherwise to solicit proxies from shareholders in support of the nominee(s) or the proposal.

(f) In addition to the information required pursuant to Section 1.1(e) or any other provision of these Bylaws, the Corporation may require any proposed nominee to furnish any other information (i) that may reasonably be requested by the Corporation to determine whether the nominee would be independent under the rules and listing standards of the securities exchanges upon which the stock of the Corporation is listed or traded, any applicable rules of the Securities and Exchange Commission or any publicly disclosed standards used by the Board of Directors in determining and disclosing the independence of the Corporation's Directors (collectively, the "**Independence Standards**"), (ii) that could be material to a reasonable shareholder's understanding of the independence, or lack thereof, of such nominee or (iii) that may reasonably be requested by the Corporation to determine the eligibility of such nominee to serve as a Director of the Corporation.

(g) Any person providing any information to the Corporation pursuant to this Section 1.1 shall further update and supplement such information, if necessary, so that all such information shall be true and correct as of the record date for the annual meeting, and such update and supplement shall be delivered to the Secretary at the principal executive offices of the Corporation not later than 10 days following the record date.

(h) Only such persons who are nominated in accordance with the provisions of Section 1.1(b) or Section 1.2(b) of these Bylaws and any applicable procedures set forth in Section 1.1, Section 1.2 or Section 1.13 of these Bylaws shall be eligible to serve as an Equity Director, and only such business shall be conducted at a meeting of shareholders as shall have been brought before the meeting in accordance with the provisions of Section 1.1(c) or Section 1.2(a) of these Bylaws and any applicable procedures set forth in this Section 1.1. Except as otherwise provided by law, the Certificate of Incorporation or these Bylaws, the chairman of the meeting shall have the power and duty to determine whether a nomination or any business proposed to be brought before the meeting was made or proposed, as the case may be, in accordance with the such provisions and procedures and, if any proposed

nomination or business is not in compliance therewith, to declare that such defective nomination or proposal shall be disregarded, notwithstanding that proxies in respect of such vote may have been received by the Corporation. For the avoidance of doubt, if the shareholder providing notice of a nomination or other business proposed to be brought before the meeting and/or any of such shareholder's nominees breaches any of its agreements or representations or fails to comply with any of its obligations under this Section 1.1 or Section 1.2 of these Bylaws, as determined by the Board of Directors or the chairman of the meeting, then such nomination or business shall be deemed not to have been made or proposed, as the case may be, in accordance with the applicable procedures set forth in this Section 1.1 or Section 1.2 of these Bylaws, and such defective nomination or proposal shall be disregarded, notwithstanding that proxies in respect of such vote may have been received by the Corporation.

(i) For purposes of this Section 1.1 and Section 1.2 of these Bylaws, "public announcement" shall mean disclosure in a press release reported by a national news service or in a document publicly filed by the Corporation with the Securities and Exchange Commission pursuant to Section 13, 14 or 15(d) of the Exchange Act and the rules and regulations promulgated thereunder.

(j) Notwithstanding the other provisions of Section 1.1, Section 1.2 and Section 1.13 of these Bylaws, a shareholder shall also comply with all applicable requirements of the Exchange Act and the rules and regulations thereunder with respect to the matters set forth in Section 1.1, Section 1.2 and Section 1.13 of these Bylaws; provided, however, that any references in Section 1.1, Section 1.2 and Section 1.13 of these Bylaws to the Exchange Act or the rules and regulations promulgated thereunder are not intended to and shall not limit the requirements applicable to nominations or proposals as to any other business to be considered pursuant to Section 1.1, Section 1.2 and Section 1.13 of these Bylaws. Nothing in these Bylaws shall be deemed to affect any rights (i) of shareholders to request inclusion of proposals in the Corporation's proxy statement pursuant to Rule 14a-8 under the Exchange Act or (ii) of the holders of any series of Preferred Stock if and to the extent provided for under law, the Certificate of Incorporation or these Bylaws.

### ***Section 1.2 Special Meetings.***

(a) Special meetings of shareholders for any purpose or purposes may be called at any time only by the Chairman of the Board or by a majority of the total number of authorized Directors. Only such business shall be conducted at a special meeting of shareholders as shall have been brought before the meeting pursuant to the Corporation's notice of meeting.

(b) Nominations of persons for election to the Board of Directors as Equity Directors may be made at a special meeting of shareholders at which Directors are to be elected pursuant to the Corporation's notice of meeting (i) by or at the direction of the Board of Directors or (ii) provided that the Board of Directors has determined that Directors shall be elected at such meeting, by any shareholder of the Corporation who (1) is a shareholder of record at the time of giving of notice provided for in this Section 1.2 and at the time of the special meeting, (2) is entitled to vote at the meeting and (3) complies with all of the procedures set forth in this Section 1.2 as to such nomination. In the event the Corporation calls a special meeting of shareholders for the purpose of electing one or more Equity Directors to the Board of Directors, any such shareholder may nominate a person or persons (as the case may be) for election to such position(s) as specified in the Corporation's notice of meeting.

(c) In addition to any other applicable requirements, for any Equity Director nominations to be properly brought before a special meeting by a shareholder pursuant to clause (ii) of Section 1.2(b) of these Bylaws, the shareholder must have given timely notice thereof in proper written form to the Secretary. To be timely, such shareholder's notice shall be delivered to the Secretary at the principal executive offices of the Corporation not earlier than the open of business on the 120th day prior to the date of such special meeting and not later than the close of business on the later of the 90th day prior to the date of such special meeting or, if the first public announcement of the date of such special meeting is less than 100 days prior to the date of such special meeting, the 10th day following the day on which public announcement is first made of the date of the special meeting and of the nominees proposed by the Board of Directors to be elected at such meeting. In no event shall any adjournment or postponement of a special meeting or the announcement thereof commence a new time period (or extend any time period) for the giving of a shareholder's notice as described above.

(d) To be in proper written form, a shareholder's notice to the Secretary given pursuant to this Section 1.2 must set forth or be accompanied by the information, representations, agreements and other documents that are required to be set forth in or included with a shareholder's notice of a nomination given pursuant to Section 1.1 of these Bylaws (including the completed and signed questionnaire, representation and agreement required by Section 1.3 of these Bylaws).

(e) In addition to the information required pursuant to Section 1.2(d) or any other provision of these Bylaws, the Corporation may require any proposed nominee to furnish any other information (i) that may reasonably be requested by the Corporation to determine whether the nominee would be independent under the Independence Standards, (ii) that could be material to a reasonable shareholder's understanding of the independence, or lack thereof, of such nominee or (iii) that may reasonably be requested by the Corporation to determine the eligibility of such nominee to serve as a Director of the Corporation.

(f) Any person providing any information to the Corporation pursuant to this Section 1.2 shall further update and supplement such information, if necessary, so that all such information shall be true and correct as of the record date for the special meeting, and such update and supplement shall be delivered to the Secretary at the principal executive offices of the Corporation not later than 10 days following the record date.

**Section 1.3 Submission of Questionnaire, Representation and Agreement.** To be eligible to be a nominee for election or reelection as a Director of the Corporation, a person must deliver (in accordance with the time periods prescribed for delivery of notice under Section 1.1, Section 1.2 or Section 1.13 of these Bylaws, as applicable) to the Secretary at the principal executive offices of the Corporation a written questionnaire with respect to the background and qualification of such person and the background of any other person or entity on whose behalf the nomination is being made (which questionnaire shall be provided by the Secretary upon written request) and a written representation and agreement (in the form provided by the Secretary upon written request) that such person (a) is not and will not become a party to (i) any agreement, arrangement or understanding with, and has not given any commitment or assurance to, any person or entity as to how such person, if elected as a Director of the Corporation, will act or vote on any issue or question (a "**Voting Commitment**") that has not been disclosed to the Corporation in such representation and agreement or (ii) any Voting Commitment that could limit or interfere with such person's ability to comply, if elected as a Director of the Corporation, with such person's fiduciary duties under applicable law, (b) is not and will not become a party to any agreement, arrangement or understanding with any person

or entity other than the Corporation with respect to any direct or indirect compensation, reimbursement or indemnification in connection with such person's nomination, candidacy, service or action as a Director that has not been disclosed to the Corporation in such representation and agreement, (c) in such person's individual capacity and on behalf of any person or entity on whose behalf the nomination is being made, would be in compliance, if elected as a Director of the Corporation, and will comply with all applicable publicly disclosed corporate governance, conflict of interest, confidentiality and stock ownership and trading policies and guidelines of the Corporation, (d) is not a Disqualified Person, as defined in Section 2.1 of these Bylaws and (e) will make such other acknowledgments, enter into such agreements and provide such information as the Board of Directors requires of all the Corporation's Directors.

**Section 1.4 Notice of Meetings.** A written notice of each annual or special meeting of shareholders shall be given stating the place, date and time of the meeting, and, in the case of a special meeting, the purpose or purposes for which the meeting is called. Unless otherwise provided by law, the Certificate of Incorporation or these Bylaws, such notice of meeting shall be given not less than 10 nor more than 60 days before the date of the meeting to each shareholder of record entitled to vote at such meeting. If mailed, such notice shall be deemed to be given when deposited in the mail, postage prepaid, directed to the shareholder at such shareholder's address as it appears on the records of the Corporation. An affidavit of the Secretary or an Assistant Secretary or of the transfer agent of the Corporation that the notice has been given shall, in the absence of fraud, be prima facie evidence of the facts stated therein.

**Section 1.5 Adjournments.** Any annual or special meeting of shareholders may be adjourned from time to time to reconvene at the same or some other place, and notice need not be given of any such adjourned meeting if the date, time and place thereof are announced at the meeting at which the adjournment is taken. At the adjourned meeting any business may be transacted which might have been transacted at the original meeting. If the adjournment is for more than 30 days, or if after the adjournment a new record date is fixed for the adjourned meeting, a notice of the adjourned meeting shall be given to each shareholder of record entitled to vote at the adjourned meeting in accordance with Section 1.4 of these Bylaws.

**Section 1.6 Quorum.** Except as otherwise provided by law, the Certificate of Incorporation or these Bylaws, the presence in person or by proxy of the holders of stock having not less than one-third of the votes which could be cast by the holders of all outstanding stock entitled to vote at the meeting shall constitute a quorum at each meeting of shareholders. In the absence of a quorum, then either (i) the chairman of the meeting or (ii) the shareholders may, by the affirmative vote of the holders of stock having a majority of the votes which could be cast by all such holders, adjourn the meeting from time to time in the manner provided in Section 1.5 of these Bylaws until a quorum is present. If a quorum is present when a meeting is convened, the subsequent withdrawal of shareholders, even though less than a quorum remains, shall not affect the ability of the remaining shareholders lawfully to transact business.

**Section 1.7 Organization.** Meetings of shareholders shall be presided over by the Chairman of the Board or the Chief Executive Officer (in that order), or in their absence, inability or unwillingness, by a chairman designated by the Board of Directors, or in the absence of such designation, by a chairman chosen at the meeting. The Secretary shall act as secretary of the meeting, but in his or her absence, the chairman of the meeting may appoint any person to act as secretary of the meeting. The chairman of any meeting of the shareholders shall determine

the order of business and the procedure at the meeting, including such regulation of the manner of voting and the conduct of business.

### ***Section 1.8 Voting.***

(a) The shareholders entitled to vote at any meeting of shareholders shall be determined in accordance with the provisions of Section 1.11 of these Bylaws, subject to the provisions of Sections 217 and 218 of the Delaware General Corporation Law (relating to voting rights of fiduciaries, pledgors and joint owners of stock and to voting trusts and other voting agreements).

(b) Except as may be otherwise provided in the Certificate of Incorporation or in these Bylaws, or as may be otherwise required by applicable law: (i) in all matters other than the election of Directors, the affirmative vote of the holders of shares representing a majority of the votes present in person or represented by proxy at the meeting and entitled to vote on the subject matter shall be the act of the shareholders; (ii) each Equity Director shall be elected to the Board of Directors if the votes cast for such nominee's election exceed the votes cast against such nominee's election; provided, however, that the Equity Directors shall be elected by a plurality of the votes cast at any meeting of shareholders for which the Secretary of the Corporation determines that the number of nominees for election as Equity Directors exceeds the number of Equity Directors to be elected as of the date that is ten days prior to the scheduled mailing date of the proxy statement for such meeting; (iii) each Class B Director shall be elected by a plurality of the votes cast at any meeting of shareholders; and (iv) where a separate vote by a class or series is required, other than with respect to the election of Directors, the affirmative vote of the holders of shares of such class or series representing a majority of the votes present in person or represented by proxy at the meeting shall be the act of such class or series.

(c) Voting at meetings of shareholders need not be by written ballot and need not be conducted by inspectors of election unless so required by Section 1.10 of these Bylaws or so determined by the holders of stock having a majority of the votes which could be cast by the holders of all outstanding stock entitled to vote which are present in person or represented by proxy at such meeting.

(d) Stock of the Corporation belonging to the Corporation, or to another Corporation, a majority of the shares entitled to vote in the election of Directors of which are held by the Corporation, shall not be voted at any meeting of shareholders and shall not be counted in the total number of outstanding shares for the purpose of determining whether a quorum is present. Nothing in this Section 1.8 shall limit the right of the Corporation to vote shares of stock of the Corporation held by it in a fiduciary capacity.

### ***Section 1.9 Proxies.***

(a) Each shareholder entitled to vote at a meeting of shareholders may authorize another person or persons to act for such shareholder by proxy filed with the Secretary before or at the time of the meeting. No such proxy shall be voted or acted upon after three years from its date, unless the proxy provides for a longer period. A duly executed proxy shall be irrevocable if it states that it is irrevocable and if, and only as long as, it is coupled with an interest sufficient in law to support an irrevocable power. A shareholder may revoke any proxy which is not irrevocable by attending the meeting and voting in person or by filing with the

Secretary an instrument in writing revoking the proxy or another duly executed proxy bearing a later date.

(b) A shareholder may authorize another person or persons to act for such shareholder as proxy (i) by executing a writing authorizing such person or persons to act as such, which execution may be accomplished by such shareholder or such shareholder's authorized officer, Director, partner, employee or agent (or, if the stock is held in a trust or estate, by a trustee, executor or administrator thereof) signing such writing or causing his or her signature to be affixed to such writing by any reasonable means, including, but not limited to, facsimile signature, or (ii) by transmitting or authorizing the transmission of a telegram, cablegram or other means of electronic transmission (a "**Transmission**") to the person who will be the holder of the proxy or to a proxy solicitation firm, proxy support service organization or like agent duly authorized by the person who will be the holder of the proxy to receive such Transmission; provided that any such Transmission must either set forth or be submitted with information from which it can be determined that such Transmission was authorized by such shareholder.

(c) Any inspector or inspectors appointed pursuant to Section 1.10 of these Bylaws shall examine each Transmission to determine whether it is valid. If no inspector or inspectors are so appointed, the Secretary or such other person or persons as shall be appointed from time to time by the Board of Directors shall examine Transmissions to determine if they are valid. If it is determined a Transmission is valid, the person or persons making that determination shall specify the information upon which such person or persons relied. Any copy, facsimile telecommunication or other reliable reproduction of such a writing or Transmission may be substituted or used in lieu of the original writing or Transmission for any and all purposes for which the original writing or Transmission could be used; provided that such copy, facsimile telecommunication or other reproduction shall be a complete reproduction of the entire original writing or Transmission.

#### ***Section 1.10 Voting Procedures and Inspectors of Elections.***

(a) Unless otherwise provided in the Certificate of Incorporation or required by law, the following provisions of this Section 1.10 shall apply only if and when the Corporation has a class of voting stock that is (i) listed on a national securities exchange, (ii) authorized for quotation on an interdealer quotation system of a registered national securities association or (iii) held of record by more than 2,000 shareholders.

(b) The Corporation shall, in advance of any meeting of shareholders, appoint one or more inspectors of election (individually an "**inspector**," and collectively the "**inspectors**") to act at such meeting and make a written report thereof. The Board of Directors may designate one or more persons as alternate inspectors to replace any inspector who fails to act. If no inspector or alternate is able to act at such meeting, the chairman of the meeting shall appoint one or more inspectors to act at the meeting. Each inspector of election, before entering upon the discharge of his duties, shall take and sign an oath to execute faithfully the duties of inspector with strict impartiality and according to the best of his ability.

(c) The inspectors shall (i) ascertain the number of shares of stock of the Corporation outstanding and the voting power of each, (ii) determine the number of shares of stock of the Corporation present in person or by proxy at such meeting and the validity of proxies and ballots, (iii) count all votes and ballots, (iv) determine and retain for a reasonable period a record of the disposition of any challenges made to any determination by the inspectors



and (v) certify their determination of the number of such shares present in person or by proxy at such meeting and their count of all votes and ballots. The inspectors may appoint or retain other persons or entities to assist them in the performance of their duties.

(d) The date and time of the opening and the closing of the polls for each matter upon which the shareholders will vote at a meeting shall be announced at such meeting. No ballots, proxies or votes, nor any revocations thereof or changes thereto, shall be accepted by the inspectors after the closing of the polls unless the Court of Chancery of the State of Delaware upon application by any shareholder shall determine otherwise.

(e) In determining the validity and counting of proxies and ballots, the inspectors shall be limited to an examination of the proxies, any envelopes submitted with such proxies, any information referred to in Section 1.9(b) and Section 1.9(c) of these Bylaws, ballots and the regular books and records of the Corporation, except that the inspectors may consider other reliable information for the limited purpose of reconciling proxies and ballots submitted by or on behalf of banks, brokers, their nominees or similar persons which represent more votes than the holder of a proxy is authorized by a shareholder of record to cast or more votes than such shareholder holds of record. If the inspectors consider other reliable information for the limited purpose permitted herein, the inspectors, at the time they make their certification pursuant to Section 1.10(c) of these Bylaws, shall specify the precise information considered by them, including the person or persons from whom such information was obtained, when and the means by which such information was obtained and the basis for the inspectors' belief that such information is accurate and reliable.

#### ***Section 1.11 Fixing Date of Determination of Shareholders of Record.***

(a) In order that the Corporation may determine the shareholders entitled (i) to notice of or to vote at any meeting of shareholders or any adjournment thereof, (ii) to receive payment of any dividend or other distribution or allotment of any rights, (iii) to exercise any rights in respect of any change, conversion or exchange of stock or (iv) to take, receive or participate in any other action, the Board of Directors may fix a record date, which shall not be earlier than the date upon which the resolution fixing the record date is adopted by the Board of Directors and which (1) in the case of a determination of shareholders entitled to notice of or to vote at any meeting of shareholders or adjournment thereof, shall, unless otherwise required by law, be not more than 60 nor less than 10 days before the date of such meeting; and (2) in the case of any other action, shall be not more than 60 days before such action.

(b) If no record date is fixed, (i) the record date for determining shareholders entitled to notice of or to vote at a meeting of shareholders shall be at the close of business on the day next preceding the day on which notice is given, or, if notice is waived, at the close of business on the day next preceding the day on which the meeting is held; and (ii) the record date for determining shareholders for any other purpose shall be at the close of business on the day on which the Board of Directors adopts the resolution relating thereto.

(c) A determination of shareholders of record entitled to notice of or to vote at a meeting of shareholders shall apply to any adjournment of the meeting, but the Board of Directors may fix a new record date for the adjourned meeting.

***Section 1.12 List of Shareholders Entitled to Vote.*** The Secretary shall prepare, at least 10 days before every meeting of shareholders, a complete list of the shareholders entitled to vote at the meeting, arranged in alphabetical order, and showing the address and the number

of shares registered in the name of each shareholder. Such list shall be open to the examination of any shareholder, for any purpose germane to the meeting, during ordinary business hours, for a period of at least 10 days prior to the meeting, either at a place within the city where the meeting is to be held, which place shall be specified in the notice of meeting, or, if not so specified, at the place where the meeting is to be held. The list shall also be produced and kept at the time and place of the meeting during the whole time thereof and may be inspected by any shareholder who is present. The stock ledger shall be the only evidence as to who are the shareholders entitled to examine the stock ledger or to vote in person or by proxy at any meeting of shareholders.

### ***Section 1.13 Proxy Access for Director Nominations.***

(a) Whenever the Board of Directors solicits proxies with respect to the election of Equity Directors at an annual meeting of shareholders, subject to the provisions of this Section 1.13, the Corporation shall include in its proxy statement for such annual meeting, in addition to any persons nominated for election by or at the direction of the Board of Directors, the name, together with the Required Information (as defined below), of any person nominated for election to the Board of Directors as an Equity Director by an Eligible Shareholder pursuant to and in accordance with this Section 1.13 (a “**Shareholder Nominee**”). For purposes of this Section 1.13, the “**Required Information**” that the Corporation will include in its proxy statement is (i) the information provided to the Secretary concerning the Shareholder Nominee and the Eligible Shareholder that is required to be disclosed in the Corporation’s proxy statement pursuant to Section 14 of the Exchange Act and the rules and regulations promulgated thereunder and (ii) if the Eligible Shareholder so elects, a Supporting Statement (as defined in Section 1.13(h)). For the avoidance of doubt, nothing in this Section 1.13 shall limit the Corporation’s ability to solicit against any Shareholder Nominee or include in its proxy materials the Corporation’s own statements or other information relating to any Eligible Shareholder or Shareholder Nominee, including any information provided to the Corporation pursuant to this Section 1.13. Subject to the provisions of this Section 1.13, the name of any Shareholder Nominee included in the Corporation’s proxy statement for an annual meeting of shareholders shall also be set forth on the form of proxy distributed by the Corporation in connection with such annual meeting.

(b) In addition to any other applicable requirements, for a nomination to be made by an Eligible Shareholder pursuant to this Section 1.13, the Eligible Shareholder must have given timely notice thereof (a “**Notice of Proxy Access Nomination**”) in proper written form to the Secretary and must expressly request in the Notice of Proxy Access Nomination to have such nominee included in the Corporation’s proxy materials pursuant to this Section 1.13. To be timely, a Notice of Proxy Access Nomination shall be delivered to the Secretary at the principal executive offices of the Corporation not earlier than the open of business on the 150th day and not later than the close of business on the 120th day prior to the first anniversary of the date that the Corporation first distributed its proxy statement to shareholders for the preceding year’s annual meeting of shareholders. In no event shall any adjournment or postponement of an annual meeting or the announcement thereof commence a new time period (or extend any time period) for the giving of a Notice of Proxy Access Nomination as described above.

(c) The maximum number of Shareholder Nominees nominated by all Eligible Shareholders that will be included in the Corporation’s proxy materials with respect to an annual meeting of shareholders shall not exceed the greater of (i) two or (ii) 20% of the number of Equity Directors in office as of the last day on which a Notice of Proxy Access Nomination may be delivered pursuant to and in accordance with this Section 1.13 (the “**Final**

**Proxy Access Nomination Date**) or, if such amount is not a whole number, the closest whole number below 20% (such greater number, as it may be adjusted pursuant to this Section 1.13(c), the **"Permitted Number"**). In the event that one or more vacancies on the Board of Directors occurs with respect to any Equity Directors for any reason after the Final Proxy Access Nomination Date but before the date of the annual meeting and the Board of Directors resolves to reduce the size of the Board of Directors in connection therewith, the Permitted Number shall be calculated based on the number of Equity Directors in office as so reduced. In addition, the Permitted Number shall be reduced by (i) the number of individuals who will be included in the Corporation's proxy materials as Equity Director nominees recommended by the Board of Directors pursuant to an agreement, arrangement or other understanding with a shareholder or group of shareholders (other than any such agreement, arrangement or understanding entered into in connection with an acquisition of stock from the Corporation by such shareholder or group of shareholders) and (ii) the number of Equity Directors in office as of the Final Proxy Access Nomination Date who were included in the Corporation's proxy materials as Shareholder Nominees for any of the two preceding annual meetings of shareholders (including any persons counted as Shareholder Nominees pursuant to the immediately succeeding sentence) and whose reelection at the upcoming annual meeting is being recommended by the Board of Directors. For purposes of determining when the Permitted Number has been reached, any individual nominated by an Eligible Shareholder for inclusion in the Corporation's proxy materials pursuant to this Section 1.13 whose nomination is subsequently withdrawn or whom the Board of Directors decides to nominate for election to the Board of Directors as an Equity Director shall be counted as one of the Shareholder Nominees. Any Eligible Shareholder submitting more than one Shareholder Nominee for inclusion in the Corporation's proxy materials pursuant to this Section 1.13 shall rank such Shareholder Nominees based on the order in which the Eligible Shareholder desires such Shareholder Nominees to be selected for inclusion in the Corporation's proxy materials in the event that the total number of Shareholder Nominees submitted by Eligible Shareholders pursuant to this Section 1.13 exceeds the Permitted Number. In the event that the number of Shareholder Nominees submitted by Eligible Shareholders pursuant to this Section 1.13 exceeds the Permitted Number, the highest ranking Shareholder Nominee who meets the requirements of this Section 1.13 from each Eligible Shareholder will be selected for inclusion in the Corporation's proxy materials until the Permitted Number is reached, going in order of the amount (largest to smallest) of shares of Common Stock each Eligible Shareholder disclosed as Owned in its Notice of Proxy Access Nomination. If the Permitted Number is not reached after the highest ranking Shareholder Nominee who meets the requirements of this Section 1.13 from each Eligible Shareholder has been selected, then the next highest ranking Shareholder Nominee who meets the requirements of this Section 1.13 from each Eligible Shareholder will be selected for inclusion in the Corporation's proxy materials, and this process will continue as many times as necessary, following the same order each time, until the Permitted Number is reached. Notwithstanding anything to the contrary contained in this Section 1.13, the Corporation shall not be required to include any Shareholder Nominees in its proxy materials pursuant to this Section 1.13 for any meeting of shareholders for which the Secretary receives a notice (whether or not subsequently withdrawn) that a shareholder intends to nominate one or more persons for election to the Board of Directors pursuant to clause (ii) of Section 1.1(b) of these Bylaws.

(d) An **"Eligible Shareholder"** is a shareholder or group of no more than 20 shareholders (counting as one shareholder, for this purpose, any two or more funds that are part of the same Qualifying Fund Group (as defined below)) that (i) has Owned (as defined in Section 1.13(e)) continuously for at least three years (the **"Minimum Holding Period"**) a number of shares of Common Stock (as defined in the Certificate of Incorporation) that

represents at least three percent of the outstanding shares of Common Stock as of the date the Notice of Proxy Access Nomination is received at the principal executive offices of the Corporation in accordance with this Section 1.13 (the “**Required Shares**”), (ii) continues to Own the Required Shares through the date of the annual meeting and (iii) meets all other requirements of this Section 1.13. A “**Qualifying Fund Group**” means two or more funds that are (i) under common management and investment control, (ii) under common management and funded primarily by the same employer or (iii) a “group of investment companies” as such term is defined in Section 12(d)(1)(G)(ii) of the Investment Corporation Act of 1940, as amended. Whenever the Eligible Shareholder consists of a group of shareholders (including a group of funds that are part of the same Qualifying Fund Group), (i) each provision in this Section 1.13 that requires the Eligible Shareholder to provide any written statements, representations, undertakings, agreements or other instruments or to meet any other conditions shall be deemed to require each shareholder (including each individual fund) that is a member of such group to provide such statements, representations, undertakings, agreements or other instruments and to meet such other conditions (except that the members of such group may aggregate the shares that each member has Owned continuously for the Minimum Holding Period in order to meet the three percent Ownership requirement of the “Required Shares” definition) and (ii) a breach of any obligation, agreement or representation under this Section 1.13 by any member of such group shall be deemed a breach by the Eligible Shareholder. No shareholder may be a member of more than one group of shareholders constituting an Eligible Shareholder with respect to any annual meeting.

(e) For purposes of this Section 1.13, a shareholder shall be deemed to “Own” only those outstanding shares of Common Stock as to which the shareholder possesses both (i) the full voting and investment rights pertaining to the shares and (ii) the full economic interest in (including the opportunity for profit from and risk of loss on) such shares; provided that the number of shares calculated in accordance with clauses (i) and (ii) shall not include any shares (1) sold by such shareholder or any of its affiliates in any transaction that has not been settled or closed, (2) borrowed by such shareholder or any of its affiliates for any purposes or purchased by such shareholder or any of its affiliates pursuant to an agreement to resell, or (3) subject to any option, warrant, forward contract, swap, contract of sale, or other derivative or similar instrument or agreement entered into by such shareholder or any of its affiliates, whether any such instrument or agreement is to be settled with shares or with cash based on the notional amount or value of shares of outstanding Common Stock, in any such case which instrument or agreement has, or is intended to have, the purpose or effect of (A) reducing in any manner, to any extent or at any time in the future, such shareholder’s or its affiliates’ full right to vote or direct the voting of any such shares and/or (B) hedging, offsetting or altering to any degree any gain or loss realized or realizable from maintaining the full economic ownership of such shares by such shareholder or affiliate. A shareholder shall “Own” shares held in the name of a nominee or other intermediary so long as the shareholder retains the right to instruct how the shares are voted with respect to the election of Equity Directors and possesses the full economic interest in the shares. A shareholder’s Ownership of shares shall be deemed to continue during any period in which (i) the shareholder has loaned such shares, provided that the shareholder has the power to recall such loaned shares on five Business Days’ notice and includes in the Notice of Proxy Access Nomination an agreement that it (1) will promptly recall such loaned shares upon being notified that any of its Shareholder Nominees will be included in the Corporation’s proxy materials and (2) will continue to hold such recalled shares through the date of the annual meeting or (ii) the shareholder has delegated any voting power by means of a proxy, power of attorney or other instrument or arrangement which is revocable at any time by the shareholder. The terms “Owned,” “Owning” and other variations of the word “Own” shall have correlative meanings. Whether outstanding shares of Common Stock are “Owned” for

these purposes shall be decided by the Board of Directors. As used in these Bylaws, the term "Business Day" means any calendar day, except a Saturday, Sunday or other day on which commercial banks are required or authorized by law to be closed in the City of Chicago, Illinois.

(f) To be in proper written form, a Notice of Proxy Access Nomination must set forth or be accompanied by the following:

(i) a statement by the Eligible Shareholder (1) setting forth and certifying as to the number of shares it Owns and has Owned continuously for the Minimum Holding Period, (2) agreeing to continue to Own the Required Shares through the date of annual meeting and (3) indicating whether it intends to continue to own the Required Shares for at least one year following the annual meeting;

(ii) one or more written statements from the record holder of the Required Shares (and from each intermediary through which the Required Shares are or have been held during the Minimum Holding Period) verifying that, as of a date within seven calendar days prior to the date the Notice of Proxy Access Nomination is delivered to the Secretary at the principal executive offices of the Corporation, the Eligible Shareholder Owns, and has Owned continuously for the Minimum Holding Period, the Required Shares, and the Eligible Shareholder's agreement to provide, within 10 days following the record date for the annual meeting, one or more written statements from the record holder and such intermediaries verifying the Eligible Shareholder's continuous Ownership of the Required Shares through the record date;

(iii) a copy of the Schedule 14N that has been or is concurrently being filed with the Securities and Exchange Commission as required by Rule 14a-18 under the Exchange Act;

(iv) the information, representations, agreements and other documents that are required to be set forth in or included with a shareholder's notice of a nomination given pursuant to Section 1.1 of these Bylaws (including the completed and signed questionnaire, representation and agreement required by Section 1.3 of these Bylaws);

(v) a representation that the Eligible Shareholder (1) acquired the Required Shares in the ordinary course of business and not with the intent to change or influence control of the Corporation, and does not presently have such intent, (2) has not nominated and will not nominate for election to the Board of Directors as an Equity Director at the annual meeting any person other than the Shareholder Nominee(s) it is nominating pursuant to this Section 1.13, (3) has not engaged and will not engage in, and has not and will not be a "participant" in another person's, "solicitation" within the meaning of Rule 14a-1(l) under the Exchange Act in support of the election of any individual as an Equity Director at the annual meeting other than its Shareholder Nominee(s) or a nominee of the Board of Directors, (4) has not distributed and will not distribute to any shareholder of the Corporation any form of proxy for the annual meeting other than the form distributed by the Corporation, (5) has complied and will comply with all laws, rules and regulations applicable to solicitations and the use, if any, of soliciting material in connection with the annual meeting and (6) has provided and will provide facts, statements and other information in all communications with the Corporation and its shareholders that are or will be true and correct in all material respects and do not and will not omit to state a material fact necessary in order to make the statements made, in light of the circumstances under which they were made, not misleading;

(vi) an undertaking that the Eligible Shareholder agrees to (1) assume all liability stemming from any legal or regulatory violation arising out of the Eligible Shareholder's communications with the shareholders of the Corporation or out of the information that the Eligible Shareholder provided to the Corporation, (2) indemnify and hold harmless the Corporation and each of its Directors, officers and employees individually against any liability, loss or damages in connection with any threatened or pending action, suit or proceeding, whether legal, administrative or investigative, against the Corporation or any of its Directors, officers or employees arising out of any nomination submitted by the Eligible Shareholder pursuant to this Section 1.13 or any solicitation or other activity in connection therewith and (3) file with the Securities and Exchange Commission any solicitation or other communication with the shareholders of the Corporation relating to the meeting at which its Shareholder Nominee(s) will be nominated, regardless of whether any such filing is required under Regulation 14A of the Exchange Act or whether any exemption from filing is available for such solicitation or other communication under Regulation 14A of the Exchange Act;

(vii) in the case of a nomination by an Eligible Shareholder consisting of a group of shareholders, the designation by all group members of one member of the group that is authorized to receive communications, notices and inquiries from the Corporation and to act on behalf of all members of the group with respect to all matters relating to the nomination under this Section 1.13 (including withdrawal of the nomination); and

(viii) in the case of a nomination by an Eligible Shareholder consisting of a group of shareholders in which two or more funds are intended to be treated as one shareholder for purposes of qualifying as an Eligible Shareholder, documentation reasonably satisfactory to the Corporation that demonstrates that the funds are part of the same Qualifying Fund Group.

(g) In addition to the information required or requested pursuant to Section 1.13(f) or any other provision of these Bylaws, (i) the Corporation may require any proposed Shareholder Nominee to furnish any other information (1) that may reasonably be requested by the Corporation to determine whether the Shareholder Nominee would be independent under the Independence Standards, (2) that could be material to a reasonable shareholder's understanding of the independence, or lack thereof, of such Shareholder Nominee or (3) that may reasonably be requested by the Corporation to determine the eligibility of such Shareholder Nominee to be included in the Corporation's proxy materials pursuant to this Section 1.13 or to serve as a Director of the Corporation, and (ii) the Corporation may require the Eligible Shareholder to furnish any other information that may reasonably be requested by the Corporation to verify the Eligible Shareholder's continuous Ownership of the Required Shares for the Minimum Holding Period and through the date of the annual meeting.

(h) The Eligible Shareholder may, at its option, provide to the Secretary, at the time the Notice of Proxy Access Nomination is provided, a written statement, not to exceed 500 words, in support of its Shareholder Nominee(s)' candidacy (a "**Supporting Statement**"). Only one Supporting Statement may be submitted by an Eligible Shareholder (including any group of shareholders together constituting an Eligible Shareholder) in support of its Shareholder Nominee(s). Notwithstanding anything to the contrary contained in this Section 1.13, the Corporation may omit from its proxy materials any information or Supporting Statement (or portion thereof) that it, in good faith, believes would violate any applicable law, rule or regulation.

(i) In the event that any information or communications provided by an Eligible Shareholder or a Shareholder Nominee to the Corporation or its shareholders is not, when provided, or thereafter ceases to be true and correct in all material respects or omits to state a material fact necessary to make the statements made, in light of the circumstances under which they were made, not misleading, such Eligible Shareholder or Shareholder Nominee, as the case may be, shall promptly notify the Secretary of any such defect and of the information that is required to correct any such defect. Without limiting the foregoing, an Eligible Shareholder shall provide immediate notice to the Corporation if the Eligible Shareholder ceases to Own any of the Required Shares prior to the date of the annual meeting. In addition, any person providing any information to the Corporation pursuant to this Section 1.13 shall further update and supplement such information, if necessary, so that all such information shall be true and correct as of the record date for the annual meeting, and such update and supplement shall be delivered to the Secretary at the principal executive offices of the Corporation not later than 10 days following the record date. For the avoidance of doubt, no notification, update or supplement provided pursuant to this Section 1.13(i) or otherwise shall be deemed to cure any defect in any previously provided information or communications or limit the remedies available to the Corporation relating to any such defect (including the right to omit a Shareholder Nominee from its proxy materials pursuant to this Section 1.13).

(j) Notwithstanding anything to the contrary contained in this Section 1.13, the Corporation shall not be required to include in its proxy materials, pursuant to this Section 1.13, any Shareholder Nominee (i) who would not be an independent Director under the Independence Standards, (ii) who is a Disqualified Person or whose election as a member of the Board of Directors would otherwise cause the Corporation to be in violation of these Bylaws, the Certificate of Incorporation, the rules and listing standards of the securities exchanges upon which the stock of the Corporation is listed or traded, or any applicable law, rule or regulation, (iii) who is or has been, within the past three years, an officer or director of a competitor, as defined in Section 8 of the Clayton Antitrust Act of 1914, (iv) who is a named subject of a pending criminal proceeding (excluding traffic violations and other minor offenses) or has been convicted in such a criminal proceeding within the past 10 years, (v) who is subject to any order of the type specified in Rule 506(d) of Regulation D promulgated under the Securities Act of 1933, as amended, or (vi) who shall have provided any information to the Corporation or its shareholders that was untrue in any material respect or that omitted to state a material fact necessary to make the statements made, in light of the circumstances in which they were made, not misleading.

(k) Notwithstanding anything to the contrary contained in these Bylaws, if (i) a Shareholder Nominee and/or the applicable Eligible Shareholder breaches any of its agreements or representations or fails to comply with any of its obligations under this Section 1.13 or (ii) a Shareholder Nominee otherwise becomes ineligible for inclusion in the Corporation's proxy materials pursuant to this Section 1.13, or dies, becomes disabled or otherwise becomes ineligible or unavailable for election at the annual meeting, in each case as determined by the Board of Directors or the chairman of the meeting, (1) the Corporation may omit or, to the extent feasible, remove the information concerning such Shareholder Nominee and the related Supporting Statement from its proxy materials and/or otherwise communicate to its shareholders that such Shareholder Nominee will not be eligible for election at the annual meeting, (2) the Corporation shall not be required to include in its proxy materials any successor or replacement nominee proposed by the applicable Eligible Shareholder or any other Eligible Shareholder and (3) the chairman of the meeting shall declare such nomination to be invalid and such nomination shall be disregarded, notwithstanding that proxies in respect of such vote may have been received by the Corporation.

(l) Any Shareholder Nominee who is included in the Corporation's proxy materials for a particular annual meeting of shareholders but either (i) withdraws from or becomes ineligible or unavailable for election at the annual meeting, or (ii) does not receive at least 25% of the votes cast in favor of such Shareholder Nominee's election, will be ineligible to be a Shareholder Nominee pursuant to this Section 1.13 for the next two annual meetings of shareholders. For the avoidance of doubt, the immediately preceding sentence shall not prevent any shareholder from nominating any person to the Board of Directors pursuant to clause (ii) of Section 1.1(b) of these Bylaws.

(m) This Section 1.13 provides the exclusive method for a shareholder to include nominees for election to the Board of Directors as Equity Directors in the Corporation's proxy materials. For the avoidance of doubt, nothing in this Section 1.13 shall affect the rights of holders of shares Class B-1 Common Stock, Class B-2 Common Stock or Class B-3 Common Stock as set forth in Article IV of these Bylaws.

## **ARTICLE II BOARD OF DIRECTORS**

**Section 2.1 Number; Qualifications.** The Board of Directors shall consist of the number of Directors as provided in the Certificate of Incorporation, and no person shall serve as a Director unless he or she (a) meets the requirements, if any, provided in the Certificate of Incorporation for service on the Board of Directors and (b) is not a Disqualified Person. A "**Disqualified Person**" is any person who (i) if elected, intends to resign as a Director of the Corporation prior to the end of the full term for which he or she is standing for election, (ii) is or has been subject to any statutory disqualification under Section 3(a)(39) of the Exchange Act or Sections 8a(2)-(4) of the Commodity Exchange Act, (iii) is or has been subject to disqualification under 17 CFR § 1.63 or (iv) otherwise would be ineligible to serve on the governing boards of Chicago Mercantile Exchange Inc. ("**CME**"), Board of Trade of the City of Chicago, Inc. ("**CBOT**"), New York Mercantile Exchange, Inc. ("**NYMEX**") or Commodity Exchange, Inc. ("**COMEX**") under their respective rulebooks, as in effect from time to time.

### **Section 2.2 Election; Resignation; Vacancies.**

(a) Subject to the provisions of the Certificate of Incorporation, at each annual meeting of shareholders, the shareholders shall elect, pursuant to the terms of the Certificate of Incorporation, the successors to the Directors whose terms expire at that meeting, and each Director shall hold office until the annual meeting at which such Director's term expires and the election and qualification of his or her successor, or until his or her earlier death, resignation or removal. Any Director may resign at any time by giving written notice to the Chairman of the Board, if any, the Chief Executive Officer or the Secretary. Unless otherwise stated in a notice of resignation, it shall take effect when received by the officer to whom it is directed, without any need for its acceptance.

(b) Only persons who are nominated in accordance with the provisions of Section 1.1(b) or Section 1.2(b) of these Bylaws and any applicable procedures set forth in Section 1.1, Section 1.2 or Section 1.13 these Bylaws shall be eligible for election as Equity Directors (as defined in the Certificate of Incorporation).



(c) Nominees for election as Class B-1 Directors, Class B-2 Directors and Class B-3 Directors (as such terms are defined in the Certificate of Incorporation) shall be selected as provided in Article IV of these Bylaws.

(d) A vacancy, howsoever occurring, in a directorship shall be filled in the manner specified in the Certificate of Incorporation.

**Section 2.3 Regular Meetings.** Regular meetings of the Board of Directors may be held without call or notice at such times and at such places, within or without the state of Delaware, as shall be fixed by resolution of the Board of Directors.

**Section 2.4 Special Meetings.** Special meetings of the Board of Directors may be called by the Chairman of the Board, the Chief Executive Officer, the Lead Director or a majority of the members of the Board of Directors then in office and may be held at any time, date or place, within or without the State of Delaware, as the person or persons calling the meeting shall fix. Notice of the time and place of special meetings shall be delivered personally, by telephone or by electronic transmission to each Director or sent by first-class mail or telegram, charges prepaid, addressed to each Director at that Director's address as it is shown on the records of the Corporation. If the notice is mailed, it shall be deposited in the United States mail at least four days before the time of the holding of the meeting. If the notice is delivered personally, by telephone, by electronic transmission or by telegram, it shall be delivered personally or by telephone or to the telegraph company at least 48 hours before the time of the holding of the meeting. Any oral notice given personally or by telephone may be communicated either to the Director or to a person at the office of the Director who the person giving the notice has reason to believe will promptly communicate it to the Director. The notice need not specify the purpose or the place of the meeting, if the meeting is to be held at the principal executive office of the Corporation.

**Section 2.5 Organization.** Meetings of the Board of Directors shall be presided over by the Chairman of the Board, the Chief Executive Officer or the Lead Director (in that order), or in their absence, inability or unwillingness, by a chairman chosen at the meeting. The Secretary shall act as secretary of the meeting, but in his or her absence the chairman of the meeting may appoint any person to act as secretary of the meeting. A majority of the Directors present at a meeting, whether or not they constitute a quorum, may adjourn such meeting to any other date, time or place without notice other than announcement at the meeting.

**Section 2.6 Quorum; Vote Required for Action.**

(a) At all meetings of the Board of Directors, a majority of the whole Board of Directors shall constitute a quorum for the transaction of business. Unless the Certificate of Incorporation or these Bylaws otherwise provide, the vote of a majority of the Directors present at a meeting at which a quorum is present shall be the act of the Board of Directors. A meeting at which a quorum is initially present may continue to transact business notwithstanding the withdrawal of Directors, if any action taken is approved by at least a majority of the required quorum for that meeting.

(b) If a quorum is not present at any meeting of the Board of Directors, then the Directors present thereat may adjourn the meeting from time to time, without notice other than announcement at the meeting, until a quorum is present.

(c) Whenever notice is required to be given under any provision of the General Corporation Law of Delaware, the Certificate of Incorporation or these Bylaws, a written waiver thereof, signed by the person entitled to notice, whether before or after the time stated therein, shall be deemed equivalent to notice. Attendance of a person at a meeting shall constitute a waiver of notice of such meeting, except when the person attends a meeting for the express purpose of objecting, at the beginning of the meeting, to the transaction of any business because the meeting is not lawfully called or convened. Neither the business to be transacted at, nor the purpose of, any regular or special meeting of the Directors, or members of a committee of Directors, need be specified in any written waiver of notice unless so required by the Certificate of Incorporation or these Bylaws.

**Section 2.7 Telephonic Meetings.** Directors, or any committee of Directors designated by the Board of Directors, may participate in a meeting of the Board of Directors or such committee by means of conference telephone or similar communications equipment by means of which all persons participating in the meeting can hear each other, and participation in a meeting pursuant to this Section 2.7 shall constitute presence in person at such meeting.

**Section 2.8 Informal Action by Directors.** Unless otherwise restricted by the Certificate of Incorporation or these Bylaws, any action required or permitted to be taken at any meeting of the Board of Directors or of any committee thereof, may be taken without a meeting if all members of the Board of Directors or such committee, as the case may be, consent thereto in writing (which may be in counterparts), and the written consent or consents are filed with the minutes of proceedings of the Board of Directors or such committee.

**Section 2.9 Reliance Upon Records.** Every Director, and every member of any committee of the Board of Directors, shall, in the performance of his or her duties, be fully protected in relying in good faith upon the records of the Corporation and upon such information, opinions, reports or statements presented to the Corporation by any of its officers or employees, or committees of the Board of Directors, or by any other person as to matters the Director or member reasonably believes are within such other person's professional or expert competence and who has been selected with reasonable care by or on behalf of the Corporation, including, but not limited to, such records, information, opinions, reports or statements as to the value and amount of the assets, liabilities and/or net profits of the Corporation, or any other facts pertinent to the existence and amount of surplus or other funds from which dividends might properly be declared and paid, or with which the Corporation's capital stock might properly be purchased or redeemed.

**Section 2.10 Interested Directors.** No contract or transaction between the Corporation and one or more of its Directors or officers, or between the Corporation and any other corporation, partnership, association or other organization in which one or more of its Directors or officers are Directors or officers, or have a financial interest, shall be void or voidable solely for this reason, or solely because the Director or officer is present at or participates in the meeting of the Board of Directors or committee thereof which authorizes the contract or transaction, or solely because such person's or their votes are counted for such purpose if (i) the material facts as to such person's or their relationship or interest and as to the contract or transaction are disclosed or are known to the Board of Directors or the committee, and the Board of Directors or committee in good faith authorizes the contract or transaction by the affirmative votes of a majority of the disinterested Directors, even though the disinterested Directors be less than a quorum; or (ii) the material facts as to such person's or their relationship or interest and as to the contract or transaction are disclosed or are known to the shareholders entitled to vote thereon, and the contract or transaction is specifically approved in

good faith by vote of the shareholders; or (iii) the contract or transaction is fair as to the Corporation as of the time it is authorized, approved or ratified, by the Board of Directors, a committee thereof or the shareholders. Common or interested Directors may be counted in determining the presence of a quorum at a meeting of the Board of Directors or of a committee which authorizes the contract or transaction.

**Section 2.11 Compensation.** Unless otherwise restricted by the Certificate of Incorporation, the Board of Directors shall have the authority to fix the compensation of Directors. The Directors shall be paid their reasonable expenses, if any, of attendance at each meeting of the Board of Directors or a committee thereof and may be paid a fixed sum for attendance at each such meeting and an annual retainer or salary for services as a Director or committee member. No such payment shall preclude any Director from serving the Corporation in any other capacity and receiving compensation therefor.

**Section 2.12 Presumption of Assent.** Unless otherwise provided by the laws of the State of Delaware, a Director who is present at a meeting of the Board of Directors or of a committee thereof at which action is taken on any matter shall be presumed to have assented to the action taken unless his or her dissent shall be entered in the minutes of such meeting or unless he or she shall file his or her written dissent to such action with the person acting as secretary of such meeting before the adjournment thereof or shall forward such dissent by registered mail to the Secretary immediately after the adjournment of such meeting. Such right to dissent shall not apply to a Director who voted in favor of such action.

### **ARTICLE III COMMITTEES OF THE BOARD OF DIRECTORS**

**Section 3.1 Committees.** The Board of Directors shall have an Executive Committee, an Audit Committee, a Compensation Committee, a Nominating and Governance Committee and any additional committees it may designate from time to time by resolution passed by a majority of the whole Board of Directors, with each committee to consist of one or more of the Directors of the Corporation.

**Section 3.2 Executive Committee.** The Executive Committee shall consist of such number of Directors as may be elected from time to time by the Board. Whenever the Board is not in session, and subject to the provisions of applicable law, the Certificate of Incorporation or these Bylaws, the Executive Committee shall have and exercise the authority of the Board in the management of the Corporation. A majority of the Executive Committee shall constitute a quorum necessary to transact business.

**Section 3.3 Audit Committee.** The Audit Committee shall consist of such number of Directors (none of whom shall be an employee of the Corporation) as may be elected from time to time by the Board and who shall meet independence requirements of the applicable listing standards. The Board of Directors shall adopt a charter setting forth the responsibilities of the Audit Committee. A majority of the Audit Committee shall constitute a quorum necessary to transact business.

**Section 3.4 Compensation Committee.** The Compensation Committee shall consist of such number of Directors (none of whom shall be an employee of the Corporation) as may be elected from time to time by the Board and who shall meet independence requirements of the applicable listing standards. The Compensation Committee shall oversee the compensation and

benefits of the employees and management of the Corporation. A majority of the Compensation Committee shall constitute a quorum necessary to transact business.

**Section 3.5 Nominating and Governance Committee.** The Nominating and Governance Committee shall consist of such number of Directors as may be determined from time to time by the Board and who shall meet independence requirements of the applicable listing standards. The Nominating and Governance Committee shall review the qualifications of potential candidates for the Equity Directors and shall propose nominees for the Equity Directors who are nominated by the Board. After the 2020 annual meeting of the shareholders of the Corporation (the “2020 Annual Meeting”), the Nominating and Governance Committee shall also review the qualifications of potential candidates for Class B Directors and shall propose nominees for Class B Directors. In making their nominations, the Nominating and Governance Committee and the Board of Directors shall take into consideration applicable board of directors composition requirements of the Commodity Futures Trading Commission. Notwithstanding the foregoing, the Nominating and Governance Committee shall include the Chairman and Chief Executive Officer as a nominee for Equity Director. The Nominating and Governance Committee shall also oversee the Corporation’s policies, procedures and practices in the area of corporate governance, including its Corporate Governance Principles. A majority of the Nominating and Governance Committee shall constitute a quorum necessary to transact business.

**Section 3.6 Committee Governance.** The Board may designate one or more Directors as alternate members of any committee, who may replace any absent or disqualified member at any meeting of the committee. In the absence or disqualification of a member of a committee, the member or members thereof present at any meeting and not disqualified from voting, whether or not such member or members constitute a quorum, may unanimously appoint another member of the Board to act at the meeting in the place of any such absent or disqualified member. Subject to the provisions of law, any such committee, to the extent provided in the resolution of the Board or in these Bylaws, shall have and may exercise all the powers and authority of the Board in the management of the business and affairs of the Corporation. Each committee shall keep regular minutes of its meetings and report the same to the Board of Directors when required. Each committee may adopt rules for its governance not inconsistent with the provisions of these Bylaws.

## ARTICLE IV CLASS B NOMINATIONS

**Section 4.1 Class B Nominating Committees.** At each annual meeting of shareholders prior to the 2020 Annual Meeting, the holders of shares of Class B-1 Common Stock; Class B-2 Common Stock; and Class B-3 Common Stock, shall each elect a nominating committee for their respective class (each, a “Class B Nominating Committee”). Each Class B Nominating Committee shall be composed of five members. This Section 4.1 shall expire and be of no further effect immediately prior to the 2020 Annual Meeting.

**Section 4.2 Director Nominations.** Each Class B Nominating Committee shall be responsible for assessing the qualifications of candidates to serve as Directors to be elected by the applicable class. Not less than 90 days but not more than 120 days prior to an annual meeting of shareholders at which a Class B-1 Director, a Class B-2 Director or a Class B-3 Director is to be elected, the applicable Class B Nominating Committee(s) shall select nominees for election to such directorship. Such Class B Nominating Committee(s) shall select, subject to

the provisions of the Certificate of Incorporation, up to two nominees for each directorship to be filled by the applicable class of Class B Common Stock at such meeting. In addition to such nominee(s), the nominations in the proxy statement mailed to shareholders in conjunction with the annual meeting of shareholders shall include, as part of or in addition to such nominee(s), (i) any nominee who is nominated by the holders of at least 100 shares of Class B-1 Common Stock, in the case of the Class B Nominating Committee representing such class, (ii) any nominee who is nominated by the holders of at least 100 shares of Class B-2 Common Stock, in the case of the Class B Nominating Committee representing such class, and (iii) any nominee who is nominated by the holders of at least 150 shares of Class B-3 Common Stock, in the case of the Class B Nominating Committee representing such class; provided, however, in the case of any such nominations, the nomination is submitted in writing and accompanied by a description of the proposed nominee's qualifications and other relevant biographical information and evidence of the consent of the proposed nominee and is submitted to the Corporate Secretary no later than ten days from the date of the announcement of the Class B nominees. All nominees shall meet the requirements, if any, in the Certificate of Incorporation, in these Bylaws or in the rulebook of CME for service on the Board of Directors. No nominee shall be a candidate for more than one directorship. If a nominee withdraws, dies, becomes incapacitated or disqualified to serve, the applicable Class B Nominating Committee shall, as quickly as practicable, submit a new nominee to the Chairman of the Board. Each Class B Nominating Committee shall submit its nominee(s) in writing to the Chairman of the Board. Such writing shall set forth as to each nominee for election or reelection as a Director: (1) the name, age, business address and residence address of such person, (2) the principal occupation or employment of such person, (3) the class and number of shares of stock of the Corporation which are owned (or, under the rules of the Corporation, would be recognized as a permitted transferee), and (4) such person's written consent to serving as a Director if elected. A nominee may be disqualified if the nominee does not abide by the proxy rules and regulations under Section 14(a) of the Securities Exchange Act of 1934 and the rules established by the Corporation. This Section 4.2 shall expire and be of no further effect upon the conclusion of the 2020 Annual Meeting.

**Section 4.3 Director Nominations.** After the 2020 Annual Meeting, not less than 90 days but not more than 120 days prior to an annual meeting of shareholders at which a Class B-1 Director, a Class B-2 Director or a Class B-3 Director is to be elected by the applicable class, the Nominating and Governance Committee shall select nominees for election to such directorship who are eligible to serve as directors for each such class. The Nominating and Governance Committee shall select, subject to the provisions of the Certificate of Incorporation, up to two nominees for each directorship to be filled by the applicable class of Class B Common Stock at such meeting. In addition to such nominee(s), the nominations in the proxy statement mailed to shareholders in conjunction with the annual meeting of shareholders shall include, as part of or in addition to such nominee(s), (i) any nominee for a Class B-1 Director who is nominated by the holders of at least 100 shares of Class B-1 Common Stock, (ii) any nominee for a Class B-2 Director who is nominated by the holders of at least 100 shares of Class B-2 Common Stock, and (iii) any nominee for a Class B-3 Director who is nominated by the holders of at least 150 shares of Class B-3 Common Stock; provided, however, in the case of any such nominations, the nomination is submitted in writing and accompanied by a description of the proposed nominee's qualifications and other relevant biographical information and evidence of the consent of the proposed nominee and is submitted to the Corporate Secretary no later than 10 Business Days from the date of the Corporation's announcement of the Class B nominees. All nominees shall meet the requirements, if any, in the Certificate of Incorporation, in these Bylaws or in the rulebook of CME for service on the Board of Directors. No nominee shall be a candidate for more than one directorship. If a nominee selected by the Nominating and

Governance Committee withdraws, dies, becomes incapacitated or disqualified to serve, the Nominating and Governance Committee shall, as quickly as practicable, submit a new nominee to the Board. A nominee may be disqualified if the nominee does not abide by the proxy rules and regulations under Section 14(a) of the Securities Exchange Act of 1934 and the rules established by the Corporation. This Section 4.3 shall become effective upon the conclusion of, and be effective from and after, the 2020 Annual Meeting.

## **ARTICLE V BOARD OFFICERS; EXECUTIVE OFFICERS**

**Section 5.1 Board Officers; Executive Officers; Election; Qualification; Term of Office.** The Board of Directors shall elect from among its members a Chairman of the Board. The Board of Directors shall also elect a Chief Executive Officer, a President, a Secretary and such other additional executive officers with such titles as the Board of Directors shall determine. The Board of Directors shall also have the authority to elect a Lead Director with the responsibilities set forth in the Corporation's Corporate Governance Principles. Any number of offices may be held by the same person. Each Board officer and executive officer of the Corporation shall hold office until his or her successor is elected and qualified or until his or her earlier death, resignation or removal.

**Section 5.2 Resignation; Removal; Vacancies.** Any Board officer or executive officer of the Corporation may resign at any time by giving written notice to the Chairman of the Board, the Chief Executive Officer or the Secretary. Unless otherwise stated in a notice of resignation, it shall take effect when received by the Board officer or executive officer to whom it is directed, without any need for its acceptance. Any resignation is without prejudice to the rights, if any, of the Corporation under any contract to which such officer is a party. The Board of Directors may remove any Board officer or executive officer with or without cause at any time by an affirmative vote of the majority of the Board of Directors, but such removal shall be without prejudice to the contractual rights, if any, of such officer with the Corporation. A vacancy occurring in any Board or executive office of the Corporation may be filled for the unexpired portion of the term thereof by the Board of Directors at any regular or special meeting.

**Section 5.3 Powers and Duties of Board Officers and Executive Officers.** The Board officers and executive officers of the Corporation shall have such powers and duties in the management of the Corporation as may be prescribed by the Board of Directors and, to the extent not so provided, as generally pertain to their respective offices, subject to the control of the Board of Directors. The Board of Directors may require any officer, agent or employee to give security for the faithful performance of his or her duties.

## **ARTICLE VI STOCK CERTIFICATES AND TRANSFERS**

**Section 6.1 Certificates; Uncertificated Shares.** The shares of the Corporation's stock shall be represented either by book entries on the Corporation's books, if authorized by the Board of Directors, or by certificates signed by, or in the name of the Corporation by its Chairman of the Board, a Vice Chairman of the Board, its Chief Executive Officer, its President or a Managing Director, and may be countersigned by its Secretary or an Assistant Secretary, certifying the number of shares owned by such shareholder in the Corporation. Any of or all the signatures on a certificate may be facsimile. In case any officer, transfer agent, or registrar who

has signed or whose facsimile signature has been placed upon a certificate shall have ceased to be such officer, transfer agent or registrar before such certificate is issued, it may be issued by the Corporation with the same effect as if such officer, transfer agent or registrar continued to be such at the date of issue. Upon the request of the registered owner of uncertificated shares, the Chief Executive Officer or his designee shall send to the registered owner a certificate representing such shares.

In the case of uncertificated shares, within a reasonable time after the issuance or transfer thereof, the Chief Executive Officer or his designee shall send to the registered owner of shares of Common Stock of the Corporation a written notice containing (i) (A) a full statement of the designations, relative rights, preferences and limitations of the shares of the class and series issued or transferred, so far as the same have been determined and the authority of the Board of Directors to divide the shares into classes or series and to determine and change the relative rights, preferences and limitations of any class or series; or (B) a declaration that the Corporation will furnish to the shareholder, upon request and without charge, a statement containing the information described in the preceding clause (A); (ii) a statement that the Corporation is organized under the laws of the State of Delaware; (iii) the name of the person to whom the uncertificated shares have been issued or transferred; (iv) the number and class of shares, and the designation of the series, if any, to which such notice applies; and (v) any restrictions on transfer of the shares, in accordance with Section 202 of the Delaware General Corporation Law. The notice referred to in the preceding sentence shall also contain the following statement: "This notice is merely a record of the rights of the addressee as of the time of its issuance. Delivery of this statement, of itself, confers no rights on the recipient. This notice is neither a negotiable instrument nor a security."

***Section 6.2 Lost, Stolen or Destroyed Certificates; Issuance of New Certificates.***

The Corporation may issue a new certificate for stock in the place of any certificate theretofore issued by it, alleged to have been lost, stolen or destroyed, and the Corporation may require the owner of the lost, stolen or destroyed certificate, or such shareholder's legal representative, to indemnify the Corporation and/or to give the Corporation a bond sufficient to indemnify it against any claim that may be made against it on account of the alleged loss, theft or destruction of any such certificate or the issuance of such new certificate.

***Section 6.3 Transfers of Stock.*** Upon surrender to the Corporation or the transfer agent of the Corporation of a certificate for stock of the Corporation duly endorsed or accompanied by proper evidence of succession, assignment or authority to transfer or, if the relevant stock certificate is claimed to have been lost, stolen or destroyed, upon compliance with the provisions of Section 6.2 of these Bylaws, and upon payment of applicable taxes with respect to such transfer, and in compliance with the transfer restrictions applicable to such shares under the Certificate of Incorporation, these Bylaws or rules of the Corporation and any other applicable transfer restrictions of which the Corporation shall have notice, the Corporation shall issue a new certificate or certificates for such stock to the person entitled thereto, cancel the old certificate and record the transaction upon its books. Transfers of stock shall be made only on the books of the Corporation by the registered holder thereof or by such holder's attorney or successor duly authorized as evidenced by documents filed with the Secretary. Whenever any transfer of stock shall be made for collateral security, and not absolutely, it shall be so expressed in the entry of transfer if, when the certificate or certificates representing such stock are presented to the Corporation for transfer, both the transferor and transferee request the Corporation to do so.

**Section 6.4 Transfers of Uncertificated Stock.** Except as otherwise required by law, uncertificated shares of the Corporation's stock shall be transferable in the manner prescribed in these Bylaws. Transfers of uncertificated stock shall be made on the books of the Corporation only by the person then registered on the books of the Corporation as the owner of such shares or by such person's attorney lawfully constituted in writing and written instruction to the Corporation containing the following information: (i) the class of shares, and the designation of the series, if any, to which such notice applies; (ii) the number of shares transferred; and (iii) the name, address and taxpayer identification number, if any, of the party to whom the shares have been transferred and who, as a result of such transfer, is to become the new registered owner of the shares. No transfer of uncertificated stock shall be valid as against the Corporation for any purpose until it shall have been entered in the stock records of the Corporation by an entry showing from and to whom transferred.

**Section 6.5 Special Designation on Certificates.** The designations, preferences and relative, participating, optional or other special rights of each class of stock or series thereof and the qualifications, limitations or restrictions of such preferences and/or rights shall be set forth in full or summarized on the face or back of the certificate that the Corporation shall issue to represent such class or series of stock; provided, however, that, except as otherwise provided in Section 202 of the General Corporation Law of Delaware, in lieu of the foregoing requirements there may be set forth on the face or back of the certificate that the Corporation shall issue to represent such class or series of stock a statement that the Corporation will furnish without charge to each shareholder who so requests the powers, designations, preferences, and the relative, participating, optional or other special rights of each class of stock, or series thereof, and the qualifications limitations or restrictions of such preferences and/or rights.

**Section 6.6 Stock Transfer Agreements.** Subject to the provisions of the Certificate of Incorporation, the Corporation shall have power to enter into and perform any agreement with any number of shareholders of any one or more classes, or series thereof, of stock of the Corporation to restrict the transfer of such shares owned by such shareholders in any manner not prohibited by the General Corporation Law of Delaware.

**Section 6.7 Registered Shareholders.** The Corporation shall be entitled to recognize the exclusive right of a person registered on its books as the owner of shares to receive dividends and to vote as such owner, shall be entitled to hold liable for calls and assessments the person registered on its books as the owner of shares, and shall not be bound to recognize any equitable or other claim to or interest in such share or shares on the part of another person, whether or not it shall have express or other notice thereof, except as otherwise provided by the laws of Delaware.

**Section 6.8 Other Regulations.** The issue, transfer, conversion and registration of stock certificates shall be governed by such other regulations as the Board of Directors may establish.

## ARTICLE VII NOTICES

**Section 7.1 Manner of Notice.** Except as otherwise provided by law, the Certificate of Incorporation or these Bylaws, whenever notice is required to be given to any shareholder, Director or member of any committee of the Board of Directors, such notice may be given by



personal delivery or by depositing it, in a sealed envelope, in the United States mails, first class, postage prepaid, addressed, or by transmitting it via telecopier, to such shareholder, Director or member, either at the address of such shareholder, Director or member as it appears on the records of the Corporation or, in the case of such a Director or member, at his or her business address; and such notice shall be deemed to be given at the time when it is thus personally delivered, deposited or transmitted, as the case may be. Such requirement for notice shall also be deemed satisfied, except in the case of shareholder meetings, if actual notice is received orally or by other writing by the person entitled thereto as far in advance of the event with respect to which notice is being given as the minimum notice period required by law or these Bylaws.

### ***Section 7.2 Dispensation with Notice.***

(a) Whenever notice is required to be given by law, the Certificate of Incorporation or these Bylaws to any shareholder to whom (i) notice of two consecutive annual meetings of shareholders, and all notices of meetings of shareholders or (ii) all, and at least two, payments (if sent by first class mail) of dividends or interest on securities of the Corporation during a 12-month period, have been mailed addressed to such shareholder at the address of such shareholder as shown on the records of the Corporation and have been returned undeliverable, the giving of such notice to such shareholder shall not be required. Any action or meeting which shall be taken or held without notice to such shareholder shall have the same force and effect as if such notice had been duly given. If any such shareholder shall deliver to the Corporation a written notice setting forth the then current address of such shareholder, the requirement that notice be given to such shareholder shall be reinstated.

(b) Whenever notice is required to be given by law, the Certificate of Incorporation or these Bylaws to any person with whom communication is unlawful, the giving of such notice to such person shall not be required, and there shall be no duty to apply to any governmental authority or agency for a license or permit to give such notice to such person. Any action or meeting which shall be taken or held without notice to any such person with whom communication is unlawful shall have the same force and effect as if such notice had been duly given.

***Section 7.3 Waiver of Notice.*** Any written waiver of notice, signed by the person entitled to notice, whether before or after the time stated therein, shall be deemed equivalent to notice. Attendance of a person at a meeting shall constitute a waiver of notice of such meeting, except when the person attends a meeting for the express purpose of objecting, at the beginning of the meeting, to the transaction of any business because the meeting is not lawfully called or convened. Neither the business to be transacted at, nor the purpose of any regular or special meeting of the shareholders, Directors, or members of a committee of Directors need be specified in any written waiver of notice.

## **ARTICLE VIII INDEMNIFICATION**

***Section 8.1 Right to Indemnification.*** In addition and subject to the indemnification provisions contained in the Certificate of Incorporation, and subject to applicable law, the following Sections of this Article VIII shall apply with respect to any person subject to the indemnification provisions of the Corporation. For purposes of the right to indemnification granted under the Certificate of Incorporation and these Bylaws, the term "officer" shall be as

defined in Rule 16a-1(f) promulgated under the Exchange Act, as determined by the Board of Directors or a committee thereof.

**Section 8.2 Prepayment of Expenses.** The Corporation may pay or reimburse the reasonable expenses incurred in defending any proceeding in advance of its final disposition if the Corporation has received in advance an undertaking by the person receiving such payment or reimbursement to repay all amounts advanced if it should be ultimately determined that he or she is not entitled to be indemnified under this Article VIII or otherwise. The Corporation may require security for any such undertaking.

**Section 8.3 Claims.** If a claim for indemnification or payment of expenses under this Article VII is not paid in full within 60 days after a written claim therefor has been received by the Corporation, the claimant may file suit to recover the unpaid amount of such claim and, if successful in whole or in part, shall be entitled to be paid the expense of prosecuting such claim. In any such action the Corporation shall have the burden of proving that the claimant was not entitled to the requested indemnification or payment of expenses under applicable law.

**Section 8.4 Non-Exclusivity of Rights.** The rights conferred on any person by this Article VIII shall not be exclusive of any other rights which such person may have or hereafter acquire under any statute, provision of the Certificate of Incorporation, these Bylaws, agreement, vote of shareholders or disinterested Directors or otherwise.

**Section 8.5 Other Indemnification.** The Corporation's obligation, if any, to indemnify any person who was or is serving at its request as a Director, officer, employee, partner or agent of another corporation, partnership, joint venture or other enterprise shall be reduced by any amount such person may collect as indemnification from such other corporation, partnership, joint venture or other enterprise.

**Section 8.6 Amendment or Repeal.** Any repeal or modification of the foregoing provisions of this Article VIII shall not adversely affect any right or protection hereunder of any person in respect of any act or omission occurring prior to the time of such repeal or modification.

## ARTICLE IX FORUM FOR ADJUDICATION OF CERTAIN DISPUTES

**Section 9.1 Forum for Adjudication of Certain Disputes.** Unless the Corporation consents in writing to the selection of an alternative forum (an "**Alternative Forum Consent**"), the Court of Chancery of the State of Delaware shall be the sole and exclusive forum for (i) any derivative action or proceeding brought on behalf of the Corporation, (ii) any action asserting a claim of breach of a fiduciary duty owed by any Director, officer, shareholder, employee or agent of the Corporation to the Corporation or the Corporation's shareholders, (iii) any action asserting a claim against the Corporation or any Director, officer, shareholder, employee or agent of the Corporation arising out of or relating to any provision of the General Corporation Law of Delaware or the Certificate of Incorporation or these Bylaws, or (iv) any action asserting a claim against the Corporation or any Director, officer, shareholder, employee or agent of the Corporation governed by the internal affairs doctrine of the State of Delaware; provided, however, that, in the event that the Court of Chancery of the State of Delaware lacks subject matter jurisdiction over any such action or proceeding described in clauses (i) through (iv), the sole and exclusive forum for such action or proceeding shall be another state or federal court

located within the State of Delaware, in each such case, unless the Court of Chancery (or such other state or federal court located within the State of Delaware, as applicable) has dismissed a prior action by the same plaintiff asserting the same claims because such court lacked personal jurisdiction over an indispensable party named as a defendant therein. Failure to enforce the foregoing provisions would cause the Corporation irreparable harm and the Corporation shall be entitled to equitable relief, including injunctive relief and specific performance, to enforce the foregoing provisions. The existence of any prior Alternative Forum Consent shall not act as a waiver of the Corporation's ongoing consent right as set forth above in this Section 9.1 with respect to any current or future actions or claims. For the avoidance of doubt, this Section 9.1 does not supersede any of the rules of any of the Corporation's exchanges or the bylaws or charters of any of the Corporation's subsidiaries, including, but not limited to, with respect to the jurisdiction and venue provisions of such rules, bylaws or charters applicable to claims brought by members of such exchanges or shareholders of such subsidiaries.

## **ARTICLE X GENERAL**

**Section 10.1 Form of Records.** Any records maintained by the Corporation in the regular course of its business, including its stock ledger, books of account, and minute books, may be kept on, or be in the form of, magnetic tape, diskette, photographs, microphotographs, or any other information storage device, provided that the records so kept can be converted into clearly legible form within a reasonable time. The Corporation shall so convert any records so kept upon the request of any person entitled to inspect the same.

**Section 10.2 Execution of Corporate Contracts and Instruments.** The Board of Directors, except as otherwise provided in these Bylaws, may authorize any officer or officers, or agent or agents, to enter into any contract or execute any instrument in the name of and on behalf of the Corporation; such authority may be general or confined to specific instances. Unless so authorized or ratified by the Board of Directors or within the agency power of an officer, no officer, agent or employee shall have any power or authority to bind the Corporation by any contract or engagement or to pledge its credit or to render it liable for any purpose or for any amount.

**Section 10.3 Severability.** If any provision of these Bylaws shall be held to be invalid, illegal, unenforceable or in conflict with the provisions of the Corporation's Certificate of Incorporation, then such provision shall nonetheless be enforced to the maximum extent possible consistent with such holding and the remaining provisions of these Bylaws (including without limitation, all portions of any Section of these Bylaws containing any such provision held to be invalid, illegal, unenforceable or in conflict with the Certificate of Incorporation, that are not themselves invalid, illegal, unenforceable or in conflict with the Certificate of Incorporation) shall remain in full force and effect.

**Section 10.4 Construction; Definitions.** Unless the context requires otherwise, the general provisions, rules of construction, and definitions in the General Corporation Law of Delaware shall govern the construction of these Bylaws. Without limiting the generality of this provision, the singular number includes the plural, the plural number includes the singular, and the term "person" includes both a corporation and a natural person.

**Section 10.5 Dividends.** The Board of Directors, subject to any restrictions contained in the General Corporation Law of Delaware or the Certificate of Incorporation, may declare and

pay dividends upon the shares of its capital stock. Dividends may be paid only in cash or in property. The Board of Directors may set apart out of any of the funds of the Corporation available for dividends a reserve or reserves for any proper purpose and may abolish any such reserve. Such purposes shall include, but not be limited to, equalizing dividends, repairing or maintaining any property of the Corporation, and meeting contingencies.

**Section 10.6 Notice and Consent.** Any person or entity owning, purchasing, or otherwise acquiring any interest in shares of capital stock of the Corporation shall be deemed to have notice of and consented to the provisions of these Bylaws, including, but not limited to, Article IX.