

Statements12ItemA 2.Managementâ™s Discussion and Analysis of Financial Condition and Results of Operations23ItemA 3.Quantitative and Qualitative Disclosures About Market Risk31ItemA 4.Controls and Procedures31PART II. OTHER INFORMATION32ItemA 1.Legal Proceedings32ItemA 2.Unregistered Sales of Equity Securities and Use of Proceeds32ItemA 6.Exhibits33SIGNATURES34Table of ContentsPART I. FINANCIAL INFORMATIONCertain TermsAll references to â€œoptionsâ€ or â€œoptions contractsâ€ in the text of this document refer to options on futures contracts. Further information about CME Group and its products can be found at <http://www.cmegroup.com>. Information made available on our website does not constitute a part of this Quarterly Report on Form 10-Q. Information about Contract Volume and Average Rate per Contract All amounts regarding contract volume and average rate per contract are for CME Groupâ€™s listed futures and options on futures contracts unless otherwise noted. Trademark Information CME Group, the Globe logo, CME, Chicago Mercantile Exchange, Globex, and E-mini are trademarks of Chicago Mercantile Exchange Inc. CBOT and Chicago Board of Trade are trademarks of Board of Trade of the City of Chicago, Inc. NYMEX, New York Mercantile Exchange and ClearPort are trademarks of New York Mercantile Exchange, Inc. COMEX is a trademark of Commodity Exchange, Inc. BrokerTec is a trademark of BrokerTec Americas LLC and EBS is a trademark of EBS Group Limited. OSTTRA is a trademark of MarkitSERV Limited. Dow Jones, Dow Jones Industrial Average, S&P 500 and S&P are service and/or trademarks of Dow Jones Trademark Holdings LLC, Standard & Poor's Financial Services LLC and S&P Dow Jones Indices LLC, as the case may be, and have been licensed for use by Chicago Mercantile Exchange Inc. (CME). All other trademarks are the property of their respective owners. Forward-Looking Statements From time to time, in this Quarterly Report on Form 10-Q as well as in other written reports and verbal statements, we discuss our expectations regarding future performance. These forward-looking statements are identified by their use of terms and phrases such as â€œbelieve,â€ â€œanticipate,â€ â€œcould,â€ â€œestimate,â€ â€œintend,â€ â€œmay,â€ â€œplan,â€ â€œexpectâ€ and similar expressions, including references to assumptions. These forward-looking statements are based on currently available competitive, financial and economic data, current expectations, estimates, forecasts and projections about the industries in which we operate and management's beliefs and assumptions. These statements are not guarantees of future performance and involve risks, uncertainties and assumptions that are difficult to predict. Therefore, actual outcomes and results may differ materially from what is expressed or implied in any forward-looking statements. We want to caution you not to place undue reliance on any forward-looking statements. We undertake no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise. Among the factors that might affect our performance are: â€¢ increasing competition by foreign and domestic entities, including increased competition from new entrants into our markets and consolidation of existing entities; â€¢ our ability to keep pace with rapid technological developments, including our ability to complete the development, implementation and maintenance of the enhanced functionality required by our customers while maintaining reliability and ensuring that such technology is not vulnerable to security risks; â€¢ our ability to continue introducing competitive new products and services on a timely, cost-effective basis, including through our electronic trading capabilities, and our ability to maintain the competitiveness of our existing products and services; â€¢ our ability to adjust our fixed costs and expenses if our revenues decline; â€¢ our ability to maintain existing customers at substantially similar trading levels, develop strategic relationships and attract new customers; â€¢ our ability to expand and globally offer our products and services; â€¢ changes in regulations, including the impact of any changes in laws or government policies with respect to our products or services or our industry, such as any changes to regulations and policies that require increased financial and operational resources from us or our customers; â€¢ the costs associated with protecting our intellectual property rights and our ability to operate our business without violating the intellectual property rights of others; â€¢ decreases in revenue from our market data as a result of decreased demand or changes to regulations in various jurisdictions; â€¢ changes in our rate per contract due to shifts in the mix of the products traded, the trading venue and the mix of customers (whether the customer receives member or non-member fees or participates in one of our various incentive programs) and the impact of our tiered pricing structure; â€¢ the ability of our credit and liquidity risk management practices to adequately protect us from the credit risks of clearing members and other counterparties, and to satisfy the margin and liquidity requirements associated with the BrokerTec matched principal business; 3Table of Contentsâ€¢ the ability of our compliance and risk management programs to effectively monitor and manage our risks, including our ability to prevent errors and misconduct and protect our infrastructure against security breaches and misappropriation of our intellectual property assets; â€¢ our dependence on third-party providers and exposure to risk through third parties, including risks related to the performance, reliability and security of technology used by our third-party providers and third-party providers that our clients rely on; â€¢ volatility in commodity, equity and fixed income prices, and price volatility of financial benchmarks and instruments such as interest rates, equity indices, fixed income instruments and foreign exchange rates; â€¢ economic, social, political and market conditions, including the volatility of the capital and credit markets and the impact of economic conditions on the trading activity of our current and potential customers; â€¢ our ability to accommodate increases in contract volume and order messaging traffic and to implement enhancements without failure or degradation of the performance of our trading and clearing systems; â€¢ our ability to execute our growth strategy and maintain our growth effectively; â€¢ our ability to manage the risks, control the costs and achieve the synergies associated with our strategy for acquisitions, investments and alliances, including those associated with the performance of our joint ventures with S&P Dow Jones (S&P Dow Jones Indices LLC) in index services and in trade processing/post trade services (OSTTRA), our primary business and distribution partnersâ€™ actions and our partnership with Google Cloud; â€¢ variances in earnings on cash accounts and collateral that our clearing house holds for its clients; â€¢ impact of CME Group pricing and incentive changes; â€¢ impact of aggregation services and internalization on trade flow and volumes; â€¢ any negative financial impacts from changes to the terms of intellectual property and index rights; â€¢ our ability to continue to generate funds and/or manage our indebtedness to allow us to continue to invest in our business; â€¢ industry, channel partner and customer consolidation and/or concentration; â€¢ decreases in trading and clearing activity; â€¢ the imposition of a transaction tax or user fee on futures and options transactions and/or repeal of the 60/40 tax treatment of such transactions; â€¢ increases in effective tax rates, borrowing costs or changes in tax policy; â€¢ our ability to maintain our brand and reputation; and â€¢ the unfavorable resolution of material legal proceedings. For a detailed discussion of these and other factors that might affect our performance, see ItemA 1A. of our Annual Report on Form 10-K for the year ended December 31, 2023, filed with the Securities and Exchange Commission on February 28, 2024 and ItemA 1A. in Part II of this Quarterly Report on Form 10-Q.4Table of ContentsITEM 1.FINANCIAL STATEMENTSCME GROUP INC. AND SUBSIDIARIESCONSOLIDATED BALANCE SHEET (in thousands) as of December 31, 2023 and for the years ended December 31, 2022 and 2021.

issued and outstanding as of September 30, 2024 and December 31, 2023[†] [‡] Additional paid-in capital \$22,375.3 [†] \$22,334.7 [‡] Retained earnings \$5,848.2 [†] \$4,455.2 [‡] Accumulated other comprehensive income (loss) \$(10.9) [†] \$(55.6) [‡] Total CME Group Shareholders' Equity \$28,216.2 [†] \$26,737.9 [‡] Total Liabilities and Equity \$137,795.1 [†] \$129,706.1 [‡] [‡] See accompanying notes to unaudited consolidated financial statements. 5 Table of Contents CME GROUP INC. AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF INCOME (dollars in millions, except per share data; shares in thousands) (unaudited) [†] Quarter Ended Nine Months Ended [‡] September 30, September 30, 2024 2023 2024 2023 Revenues \$1,297.1 [†] \$1,085.5 [‡] \$3,755.9 [†] \$3,404.0 [‡] Market data and information services \$178.2 [†] \$167.6 [‡] \$528.6 [†] \$496.5 [‡] Other \$109.1 [†] \$84.7 [‡] \$320.3 [†] \$239.1 [‡] Total fees \$1,297.1 [†] \$1,085.5 [‡] \$3,755.9 [†] \$3,404.0 [‡] Market data and information services \$178.2 [†] \$167.6 [‡] \$528.6 [†] \$496.5 [‡] Other \$109.1 [†] \$84.7 [‡] \$320.3 [†] \$239.1 [‡] Total

Revenues 1,584.4^A 1,337.8^A 4,604.8^A 4,139.6^A Expenses Compensation and benefits 218.8^A 205.5^A 629.5^A 615.7^A Technology 66.6^A 55.6^A 190.1^A 160.2^A Professional fees and outside services 31.0^A 32.2^A 98.8^A 108.3^A Amortization of purchased intangibles 55.7^A 52.7^A 166.4^A 171.0^A Depreciation and amortization 28.2^A 31.1^A 87.0^A 95.3^A Licensing and other fee agreements 97.6^A 79.5^A 271.4^A 242.4^A Other 62.3^A 56.5^A 177.2^A 174.2^A Total Expenses 560.2^A 517.6^A 1,620.4^A 1,567.1^A Operating Income 1,024.2^A 820.2^A 2,984.4^A 2,572.5^A Non-Operating Income (Expense) Investment income 1,026.8^A 1,272.5^A 3,142.6^A 4,198.4^A Interest and other borrowing costs (40.2)^(39.6) (120.2)^(119.7) Equity in net earnings of unconsolidated subsidiaries 86.1^A 76.8^A 259.7^A 230.1^A Other non-operating income (expense) (920.0)^(1,155.6) (2,821.7)^(3,733.7) Total Non-Operating Income (Expense) 152.7^A 154.1^A 460.4^A 575.1^A Income before Income Taxes 1,176.9^A 974.3^A 3,444.8^A 3,147.6^A Income tax provision 264.1^A 224.1^A 793.6^A 673.0^A Net Income \$912.8^A \$750.2^A \$2,651.2^A \$2,411.6^A Net Income Attributable to Common Stockholders of GMPC 912.8^A 750.2^A 2,651.2^A 2,411.6^A Preferred Stockholders 0^A 0^A 0^A 0^A Non-controlling Interests 0^A 0^A 0^A 0^A

Common Shareholders of CME Group⁹ \$901.3⁸ \$740.8⁸ \$2,617.8⁸ \$2,381.3⁸ Earnings per Share Attributable to Common Shareholders of CME Group:Basic\$2.51⁸ \$2.06⁸ \$7.29⁸ \$6.63⁸ Diluted\$2.50⁸ 2.06⁸ 7.27⁸ 6.62⁸ Weighted Average Number of Common Shares:Basic359,400⁸ 359,020⁸ 359,329⁸ 358,965⁸ Diluted359,989⁸ 359,619⁸ 359,899⁸ 359,448⁸ See accompanying notes to unaudited consolidated financial statements.6Table of ContentsCME GROUP INC. AND SUBSIDIARIESCONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME(in millions)(unaudited)Quarter EndedNine Months EndedSeptember 30,September 30,2024202320242023Net income\$912.8⁸ \$750.2⁸ \$2,651.2⁸ \$2,411.6⁸ Other comprehensive income (loss), net of tax:Investment securities:Net unrealized holding gains (losses) arising during the period0.6⁸ (0.4)⁸ 0.6⁸ (0.1)⁸ Income tax benefit (expense)(0.2)⁸ 0.1⁸ (0.2)⁸ Δ Investment securities, net0.4⁸ (0.3)⁸ 0.4⁸ (0.1)⁸ Defined benefit plans:Net change in defined benefit plans arising during the period0.4⁸ Δ Δ (5.9)⁸ (3.5)Amortization of net actuarial (gains) losses included in compensation and benefits expense0.1⁸ 0.1⁸ 0.1⁸ Income tax benefit (expense) Δ Δ (0.1)⁸ 1.5⁸ 0.8⁸ Defined benefit plans, net0.1⁸ Δ Δ (4.3)⁸ (2.6)Derivative investments:Reclassification of net unrealized (gains) losses to interest expense and other non-operating income (expense)(0.9)⁸ (0.8)⁸ (2.7)⁸ (2.7)⁸ Income tax benefit (expense)0.3⁸ 0.2⁸ 0.7⁸ 0.7⁸ Derivative investments, net(0.6)⁸ (0.6)⁸ (2.0)⁸ (2.0)⁸ Foreign currency translation:Foreign currency translation adjustments88.4⁸ (16.2)⁸ 54.8⁸ 20.7⁸ Income tax benefit (expense)(4.2)⁸ Δ (4.2)⁸ Δ Foreign currency translation, net84.2⁸ (16.2)⁸ 50.6⁸ 20.7⁸ Other comprehensive income (loss), net of

GROUP INC. AND SUBSIDIARIESCONSOLIDATED STATEMENTS OF EQUITY(dollars in millions, except per share data; shares in thousands)(unaudited)Â Nine Months Ended, September 30, 2024Preferred Stock (Shares)Class ACommonStock(Shares)Class BCommonStock(Shares)Preferred Stock, CommonStock andAdditionalPaid-inCapitalRetainedEarningsAccumulatedOtherComprehensiveIncome (Loss)Total CME Group Shareholdersâ€™ EquityBalance at DecemberÂ 31, 2023,584Â 359,231Â 3Â \$22,338.3A \$4,455.2Â \$(55.6)\$26,737.9A Net income2,651.2Â 2,651.2A Other comprehensive income (loss)44.7Â 44.7Â Dividends on common and preferred stock of \$3.45 per share(1,258.2)(1,258.2)Vesting of issued restricted Class A common stock289Â (29.5)(29.5)Shares issued to Board of Directors19Â 3.7Â 3.7Â Shares issued under Employee Stock Purchase Plan20Â 4.0Â 4.0Â Stock-based compensation62.4Â 62.4Â Balance at September 30, 20244,584Â 359,559Â 3Â \$22,378.9A \$5,848.2A \$(10.9)\$28,216.2A Quarter Ended, September 30, 2024Preferred Stock (Shares)Class ACommonStock(Shares)Class BCommonStock(Shares)Preferred Stock, CommonStock andAdditionalPaid-inCapitalRetainedEarningsAccumulatedOtherComprehensiveIncome (Loss)Total CME Group Shareholdersâ€™ EquityBalance at June 30, 20244,584Â 359,361Â 3Â \$22,375.7Â \$5,355.1Â \$(95.0)\$27,635.8A Net income912.8Â 912.8Â Other comprehensive income (loss)84.1Â 84.1Â Dividends on common and preferred stock of \$1.15 per share(419.7)(419.7)Vesting of issued restricted Class A common stock198Â (17.1)(17.1)Stock-based compensation20.3Â 20.3Â Balance at September 30, 20244,584Â 359,559Â 3Â \$22,378.9A \$5,848.2A \$(10.9)\$28,216.2A See accompanying notes to unaudited consolidated financial statements.8Table of ContentsCME GROUP INC. AND SUBSIDIARIESCONSOLIDATED STATEMENTS OF EQUITY (continued)(dollars in millions, except per share data; shares in thousands)(unaudited)Â Nine Months Ended, September 30, 2023Preferred Stock (Shares)Class ACommonStock(Shares)Class BCommonStock(Shares)CommonStock andAdditionalPaid-inCapitalRetainedEarningsAccumulatedOtherComprehensiveIncome (Loss)Total CME Group Shareholdersâ€™ EquityBalance at December 31, 2022,584Â 358,929Â 3Â \$22,265.2A \$4,746.8Â \$(133.3)\$26,878.7Â Net income2,411.6Â 2,411.6Â Other comprehensive income (loss)16.0Â 16.0Â Dividends on common stock of \$3.30 per share(1,202.2)(1,202.2)Vesting of issued restricted Class A common stock219Â (18.5)(18.5)Shares issued to Board of Directors20Â 3.6Â 3.6Â Shares issued under Employee Stock Purchase Plan21Â 3.8Â 3.8Â Stock-based compensation58.6Â 58.6Â Balance at September 30, 2023,584Â 359,189Â 3Â \$22,312.7Â \$5,956.2Â \$(117.3)\$28,151.6Â Quarter Ended, September 30, 2023Preferred Stock (Shares)Class ACommonStock(Shares)Class BCommonStock(Shares)Preferred Stock, CommonStock andAdditionalPaid-inCapitalRetainedEarningsAccumulatedOtherComprehensiveIncome (Loss)Total CME Group Shareholdersâ€™ EquityBalance at June 30, 2023,584Â 358,978Â 3Â \$22,311.2Â \$5,606.8Â \$(100.2)\$27,817.8Â Net income750.2Â 750.2Â Other comprehensive income (loss)17.1Â (17.1)Dividends on common and preferred stock of \$1.10 per share(400.8)(400.8)Vesting of issued restricted Class A common stock211Â (17.4)(17.4)Shares issued to Board of Directorsâ€™ A â€™ A â€™ A Shares issued under Employee Stock Purchase Planâ€™ A â€™ A â€™ A Stock-based compensation18.9Â 18.9Â Balance at September 30, 2023,584Â 359,189Â 3Â \$22,312.7Â \$5,956.2Â \$(117.3)\$28,151.6Â See accompanying notes to unaudited consolidated financial statements.9Table of ContentsCME GROUP INC. AND SUBSIDIARIESCONSOLIDATED STATEMENTS OF CASH FLOWS(in millions) (unaudited)Â Nine Months Ended September 30, 20242023Cash Flows from Operating ActivitiesNet income\$2,651.2Â \$2,411.6Â Adjustments to reconcile net income to net cash provided by operating activities:Stock-based compensation62.4Â 58.6Â Amortization of purchased intangibles166.4Â 171.0Â Depreciation and amortization87.0Â 95.3A Net realized and unrealized (gains) losses on investments(11.7)(71.8)Deferred income taxes(21.9)(25.8)Change in:Accounts receivable(95.2)(74.9)Other current assets598.7Â (102.9)Other assets38.1Â 58.6Â Accounts payable39.3Â (67.5)Income taxes payable(128.0)(86.5)Other current liabilities(691.4)56.5Â Other liabilities(17.0)(34.5)Other(5.3)21.8Â Net Cash Provided by Operating Activities2,672.6Â 2,409.5Â Cash Flows from Investing ActivitiesProceeds from maturities of available-for-sale marketable securities4.9Â 4.4Â Purchases of available-for-sale marketable securities(4.3)(3.0)Purchases of property, net(67.8)(55.6)Investments in privately-held equity investments(3.6)(2.4)Proceeds from sales of investments13.5Â 97.9Â Net Cash (Used in) Provided by Investing Activities(57.3)41.3Â Cash Flows from Financing ActivitiesRepayment of debt, including call premiumâ€™ A (16.4)Cash dividends(3,165.4)(2,835.4)Change in performance bond and guaranty fund contributions9,264.5Â (48,057.1)Employee taxes paid on restricted stock vesting(29.5)(18.5)Other(9.0)(0.4)Net Cash (Used in) Provided by Financing Activities6,060.6Â (50,927.8)10Table of ContentsCME GROUP INC. AND SUBSIDIARIESCONSOLIDATED STATEMENTS OF CASH FLOWS (continued)(in millions)(unaudited)Â Nine Months Ended September 30, 20242023Net change in cash, cash equivalents, restricted cash and restricted cash equivalents\$8,675.9Â \$(48,477.0)Cash, cash equivalents, restricted cash and restricted cash equivalents, beginning of period93,109.7Â 137,974.4Â Cash, Cash Equivalents, Restricted Cash and Restricted Cash Equivalents, End of Period\$101,785.6Â \$89,497.4Â Reconciliation of cash, cash equivalents, restricted cash and restricted cash equivalents:Cash and cash equivalents\$2,322.1Â \$2,300.2Â Short-term restricted cash6.5Â 5.1Â Restricted cash and restricted cash equivalents (performance bonds and guaranty fund contributions)99,457.0Â 87,192.1Â Total\$101,785.6Â \$89,497.4Â Supplemental Disclosure of Cash Flow InformationIncome taxes paid\$938.6Â \$883.3Â Interest paid106.0Â 106.0Â See accompanying notes to unaudited consolidated financial statements.11Table of ContentsNOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS1. Basis of PresentationThe consolidated financial statements consist of CME Group Inc. (CME Group) and its subsidiaries (collectively, the company), including Chicago Mercantile Exchange Inc. (CME), Board of Trade of the City of Chicago, Inc. (CBOT), New York Mercantile Exchange, Inc. (NYMEX), Commodity Exchange, Inc. (COMEX) and NEX Group Limited (NEX). The clearing house is operated by CME. The accompanying interim consolidated financial statements have been prepared by CME Group without audit. Certain notes and other information normally included in financial statements prepared in accordance with accounting principles generally accepted in the United States have been condensed or omitted. In the opinion of management, the accompanying consolidated financial statements include all adjustments (consisting only of normal recurring adjustments) considered necessary to present fairly the financial position of the company at SeptemberÂ 30, 2024 and DecemberÂ 31, 2023 and the results of operations and cash flows for the periods indicated. Quarterly results are not necessarily indicative of results for any subsequent period. The accompanying consolidated financial statements should be read in conjunction with the consolidated financial statements and notes thereto in CME Groupâ€™s Annual Report on Form 10-K for the year ended DecemberÂ 31, 2023, filed with the Securities and Exchange Commission (SEC) on FebruaryÂ 28, 2024.2. Revenue RecognitionThe company generates revenue from customers from the following sources:Clearing and transaction fees. Clearing and transaction fees include electronic trading fees and brokerage commissions, surcharges for privately-negotiated transactions, risk mitigation and other volume-related charges for trade contracts. Clearing and transaction fees are assessed upfront at the time of trade execution. As such, the company recognizes the majority of the fee revenue upon successful execution of the trade. The minimal remaining portion of the fee revenue related to settlement activities performed after trade execution is recognized over the short-term period that the contract is outstanding, based on managementâ€™s estimates of the average contract lifecycle. These estimates are based on various assumptions to approximate the amount of fee revenue to be attributed to services performed through contract settlement, expiration, or termination. For cleared trades, these assumptions include the average number of days that a contract remains in open interest, contract turnover, average revenue per day, and revenue remaining in open interest at the end of each period. The nature of contracts gives rise to several types of variable consideration, including volume-based pricing tiers, customer incentives associated with market maker programs and other fee discounts. The company includes fee discounts and incentives in the estimated transaction price when there is a basis to reasonably estimate the amount of the fee reduction. These estimates are based on historical experience, anticipated performance, and best judgment at the time. Because of the companyâ€™s certainty in estimating these amounts, they are included in the transaction price of contracts. Market data and information services. Market data and information services represent revenue from the dissemination of market data to subscribers, distributors, and other third-party licensees of market data. Pricing for market data is primarily based on the number of reportable devices used as well as the number of subscribers enrolled under the arrangement. Fees for these services are generally billed monthly. Market data services are satisfied over time and revenue is recognized on a monthly basis as the customers receive and consume the benefit of the market data services. However, the company also maintains certain annual license arrangements with one-time upfront fees. The fees for annual licenses are initially recorded as a contract liability and recognized as revenue monthly over the term of the annual period. Other. Other revenues include certain access and communication fees, fees for non-cash collateral management, equity membership subscription fees, and fees for trade order routing through agreements from various strategic relationships. Access and communication fees are charged to customers that utilize various telecommunications networks and communications services. Fees for these services are generally billed monthly and the associated fee revenue is recognized as billed. Collateral management fees are charged to clearing firms that have non-cash collateral on deposit with the clearing house to meet their minimum performance bond and guaranty fund obligations on the exchange. These fees are calculated based on daily non-cash collateral balances and are billed monthly. This fee revenue is recognized monthly as billed as the customers receive and consume the benefits of the services. The company also has an equity membership program which provides equity members the option to substitute a monthly subscription fee for their existing requirement to hold CME Group Class A common stock. Choosing to pay this fee in lieu of holding Class A shares is entirely voluntary and the clientâ€™s choice. Fee revenue under this program is earned monthly as billed over the contractual term. Pricing for strategic relationships may be driven by customer levels and activity. There are fee arrangements which provide for monthly as well as quarterly payments in arrears. Revenue is recognized monthly for strategic relationship arrangements as the customers receive and consume the benefits of the services.12Table of ContentsThe following table represents a disaggregation of revenue from contracts with customers by product line for the quarters ended SeptemberÂ 30, 2024 and 2023:Â Quarter Ended September 30, Nine Months Ended September 30, (in millions)2024202320242023Interest rates\$445.8Â \$350.9Â \$1,249.1Â \$1,148.5Â Equity indexes291.8Â 250.1Â 828.1Â 767.6Â Foreign exchange51.9Â 46.9Â 150.2Â 138.9Â Agricultural commodities139.1Â 119.9Â 432.5Â 382.6Â Energy204.9Â 177.4Â 601.0Â 521.1Â Metals71.8Â 49.6Â 218.4Â 166.9Â BrokerFee fixed income33.3Â 37.3Â 108.9Â 114.4Â EBS foreign exchange35.2Â 32.2Â 99.0Â 100.0Â Interest rate swap23.3Â 21.2Â 68.7Â 64.0Â Total clearing and transaction fees1,297.1Â 1,085.5Â 3,755.9Â 3,404.0Â Market data and information services178.2Â 167.6Â 528.6Â 496.5Â Other109.1Â 84.7Â 320.3Â 239.1Â Total revenues\$1,584.4Â \$1,337.8Â \$4,604.8Â \$4,139.6Â Timing of Revenue RecognitionServices transferred at a point in time\$1,270.0Â \$1,060.3Â \$3,677.5Â \$3,330.9Â Services transferred over time309.5Â 272.8Â 912.2Â 794.8Â One-time charges and miscellaneous revenues4.9Â 4.7Â 15.1Â 13.9Â Total revenues\$1,584.4Â \$1,337.8Â \$4,604.8Â \$4,139.6Â The timing of revenue recognition, billings and cash collections results in billed accounts receivable, and customer advances and deposits (contract liabilities) on the consolidated balance sheets. Certain fees for transactions, annual licenses, and other revenue arrangements are billed upfront before revenue is recognized, which results in the recognition of contract liabilities. These liabilities are recognized on the consolidated balance sheets on a contract-by-contract basis upon commencement of services under the customer contract. These upfront customer payments are recognized as revenue over time as the obligations under the contracts are satisfied. Changes in the contract liability balances during the third quarter of 2024 were not materially impacted by any other factors. The balance of contract liabilities was \$29.5 million and \$13.2 million as of SeptemberÂ 30, 2024 and DecemberÂ 31, 2023, respectively.3. Performance Bonds and Guaranty Fund ContributionsPerformance Bonds and Guaranty Fund Contribution Reinvestment. CME reinvests cash performance bonds and guaranty fund contributions and distributes a portion of the interest earned back to the clearing firms. The reinvestment of cash can include certain commercial and central bank deposits, government securities, reverse repurchase agreements, and money market funds. CME has been designated as a systemically important financial market utility by the Financial Stability Oversight Council and is authorized to maintain cash accounts at the Federal Reserve Bank of Chicago. At SeptemberÂ 30, 2024, CME maintained \$87.7Â billion within the cash account at the Federal Reserve Bank of Chicago. The cash deposit at the Federal Reserve Bank of Chicago is included within performance bonds and guaranty fund contributions on the consolidated balance sheets. Cash performance bonds and guaranty fund contributions are included as restricted cash and restricted cash equivalents on the consolidated statements of cash flows. In the third quarter and first nine months of 2024, earnings from cash performance bond and guaranty fund contributions were \$991.3Â million and \$3,035.6Â million, compared with \$1,246.5Â million and \$4,042.9Â million in the third quarter and first nine months of 2023, respectively. In the third quarter and first nine months of 2024, expenses related to the distribution of interest earned on collateral reinvestments were \$922.6Â million and \$2,829.4Â million, compared with \$1,160.5Â million and \$3,756.8Â million in the third quarter and first nine months of 2023, respectively. The earnings from cash performance bonds and guaranty fund contributions are included in investment income and the expense related to the distribution of interest earned is included in other non-operating income (expense) on the consolidated statements of income. Clearing House Contract Settlement. The clearing house marks-to-market open positions at least once a day (twice a day for all futures and options contracts). Based on values derived from the mark-to-market process, the clearing house requires payments13Table of Contentsfrom clearing firms whose positions have lost value and makes payments to clearing firms whose positions have gained value. Under the extremely unlikely scenario of simultaneous default by every clearing firm who has open positions with unrealized losses, the maximum exposure related to positions other than cleared-only interest rate swap contracts would be one half day of changes in fair value of all open positions, before considering the clearing houseâ€™s ability to access defaulting clearing firms' collateral deposits. For cleared interest rate swap contracts, the maximum exposure at the time of default related to the clearing houseâ€™s guarantee would be one full day of changes in fair value of all open positions, before considering the clearing houseâ€™s ability to access defaulting clearing firms' collateral. During the first nine months of 2024, the clearing house transferred an average of approximately \$5.7Â billion a day through its clearing systems for settlement from clearing firms whose positions had lost value to clearing firms whose positions had gained value. The clearing house reduces its guarantee exposure through initial and maintenance performance bond requirements and mandatory guaranty fund contributions. Management has assessed the fair value of the companyâ€™s settlement guarantee liability by taking the following factors into consideration: the design and operations of the clearing risk management process, the financial safeguard packages in place, historical evidence of default by a clearing member and the estimated probability of potential payouts by the clearing house. Based on the assessment performed, management estimates the guarantee liability to be nominal and therefore has not recorded any liability at SeptemberÂ 30, 2024 and DecemberÂ 31, 2023. The company does not have a history of significant losses recognized on performance bond collateral as posted by our clearing members, and management currently does not anticipate any future credit losses on its performance bond assets. Accordingly, the company has not provided an allowance for credit losses on these performance bond deposits, nor has it recorded any liabilities to reflect an allowance for credit losses related to our off-balance sheet credit exposures and guarantees.14Table of Contents4. Intangible Assets and GoodwillIntangible assets consisted of the following at SeptemberÂ 30, 2024 and DecemberÂ 31, 2023:Â At September 30, 2024December 31, 2023(in millions)Assigned ValueAccumulatedAmortizationNet Book ValueAssigned ValueAccumulatedAmortizationNet Book ValueAmortizable Intangible Assets:Clearing property62.5Â (62.5)Â 62.5Â (62.2)0.3Â Other73.6Â (48.4)25.2Â 71.6Â (41.2)30.4Â Total amortizable intangible assets\$4,843.0Â \$(2,400.8)Â \$2,442.2Â \$4,828.5Â \$(2,228.3)Â \$2,600.2Â Indefinite-Lived Intangible Assets:Trade names450.0Â 450.0Â Total intangible assets â€™ other, net\$2,892.2Â \$3,050.2Â Trading products(1)17,175.3Â \$17,175.3Â AÂ AÂ (1)Trading products represent futures and options products acquired in our business combinations with CBOT Holdings, Inc., NYMEX Holdings, Inc. and The Board of Trade of Kansas City, Missouri, Inc. Clearing and transaction fees are generated through the trading of these products. These trading products, most of which have traded for decades, require authorization from the Commodity Futures Trading Commission (CFTC). Product authorizations from the CFTC have no term limits. Total amortization expense for intangible assets was \$55.7 million and \$57.2 million for the quarters ended SeptemberÂ 30, 2024 and 2023, respectively. Total amortization expense for intangible assets was \$166.4 million and \$171.0 million for the nine months ended SeptemberÂ 30, 2024 and 2023, respectively. As of SeptemberÂ 30, 2024, the future estimated amortization expense related to amortizable intangible assets is expected to be as follows:(in millions)Â Amortization ExpenseRemainder of 2024\$55.8Â 2025223.2Â 2026223.2Â 2027221.9Â 2028215.3Â Thereafter1,287.5Â Goodwill activity consisted of the following for the periods ended SeptemberÂ 30, 2024 and DecemberÂ 31, 2023:(in millions)GoodwillBalance at December 31, 2022\$10,482.5Â Foreign currency translation12.8Balance at December 31, 202310,495.3Â Foreign currency translation18.8Â Balance at September 30, 2024\$10,514.1Â 15Table of Contents5. DebtShort-term debt consisted of the following at SeptemberÂ 30, 2024 and DecemberÂ 31, 2023:(in millions)September 30, 2024December 31, 2023\$750.0 million fixed rate notes due March 2025, stated rate of 3.00% (1)\$749.7Â \$â€™AÂ Total short-term debt\$749.7Â \$â€™AÂ (1)The company maintained a forward-starting interest rate swap agreement that modified the interest obligation associated with these notes so that the interest payable on the notes effectively became fixed at a rate of 3.11%. Long-term debt consisted of the following at SeptemberÂ 30, 2024 and DecemberÂ 31, 2023:(in millions)September 30, 2024December 31, 2023\$750.0 million fixed rate notes due March 2025, stated rate of 3.00% (1)\$749.1Â \$500.0 million fixed rate notes due June 2028, stated rate of 3.75%\$498.4Â 498.1Â \$750.0 million fixed rate notes due March 2032, stated

rate of 2.65% 743.5Å 742.9Å \$750.0 million fixed rate notes due September 2043, stated rate of 5.30% (2)744.2Å 744.0Å \$700.0 million fixed rate notes due June 2048, stated rate of 4.15%691.6Å 691.3Å Total long-term debt\$2,677.7Å \$3,425.4Å (1)The company maintained a forward-starting interest rate swap agreement that modified the interest obligation associated with these notes so that the interest payable on the notes effectively became fixed at a rate of 3.11%.(2)The company maintained a forward-starting interest rate swap agreement that modified the interest obligation associated with these notes so that the interest payable on the notes effectively became fixed at a rate of 4.73%. Long-term debt maturities, at par value, were as follows at SeptemberÅ 30, 2024: Å (in millions)Par Value2025\$å€“Å 2026å€“Å 2027å€“Å 202850.0Å 2029å€“Å Thereafter2,200.0Å 6. ContingenciesLegal and Regulatory Matters. In the normal course of business, the company discusses matters with its regulators raised during regulatory examinations or otherwise subject to their inquiry and oversight. These matters could result in censures, fines, penalties or other sanctions. Management believes the outcome of any resulting actions will not have a material impact on the company's consolidated financial position or results of operations. However, the company is unable to predict the outcome or the timing of the ultimate resolution of these matters, or the potential fines, penalties or injunctive or other equitable relief, if any, that may result from these matters. A putative class action complaint was filed January 15, 2014 in the Circuit Court of Cook County, Chancery Division, against CME Group Inc. and the Board of Trade of the City of Chicago, Inc. The plaintiffs, certain Class B shareholders of CME Group and Class B members of CBOT, allege breach of contract and breach of the implied covenant of good faith and fair dealing for violations of their core rights granted in the defendants'™ respective Certificates of Incorporation. On December 2, 2021, the court granted the plaintiffs'™ motion for certification of a damages-only class. No trial date has been set. Given the uncertainty of factors that may potentially affect the resolution of the matter, at this time the company is unable to estimate the reasonably possible loss or range of reasonably possible losses in the unlikely event it were found to be liable at trial. Based on its investigation to date, the company believes that it has strong factual and legal defenses to the claims. In addition, the company is a defendant in, and has potential for, various other legal proceedings arising from its regular business activities. While the ultimate results of such proceedings against the company cannot be predicted with certainty, the company believes that the resolution of any of these matters on an individual or aggregate basis will not have a material impact on its consolidated financial position or results of operations. No accrual was required for contingent legal and regulatory matters as none were probable and estimable as of SeptemberÅ 30, 2024 and DecemberÅ 31, 2023.16Table of ContentsIntellectual Property Indemnifications. Certain agreements with customers and other third parties related to accessing the CME Group platforms, utilizing market data services and licensing SPAN and SPAN 2 software may contain indemnifications from intellectual property claims that may be made against them as a result of their use of the applicable products and/or services. The potential future claims relating to these indemnifications cannot be estimated and therefore no liability has been recorded.7. LeasesThe company has operating leases for corporate offices. The operating leases have remaining lease terms of up to 14 years, some of which include options to extend or renew the leases for up to an additional five years, and some of which include options to early terminate the leases in less than 12 months. Management evaluates whether these options are exercisable at least quarterly in order to determine whether the contract term must be reassessed. For a small number of the leases, primarily the international locations, management's™ approach is to enter into short-term leases for a lease term of 12 months or less in order to provide for greater flexibility in the local environment. For certain office spaces, the company has entered into arrangements to sublease excess space to third parties, while the original lease contract remains in effect with the landlord. The company also has one finance lease, which is related to the sale of our data center in March 2016. In connection with the sale, the company leased back a portion of the property. The transaction was recognized under the financing method and not as a sale leaseback arrangement. The right-of-use lease asset is recorded within other assets, and the present value of the lease liability is recorded within other liabilities (segregated between short term and long term) on the consolidated balance sheets. The discount rate applied to the lease payments represents the company's™ incremental borrowing rate. The components of lease costs were as follows:Quarter Ended September 30,Nine Months Ended September 30, (in millions)2024202320242023Operating lease expense:Operating lease cost\$12.7Å \$13.8Å \$38.9Å \$41.7Å Short-term lease cost0.1Å 0.1Å 0.3Å Total operating lease expense included in other expense\$12.8Å \$13.9Å \$39.2Å \$42.0Å Finance lease expense:Interest expense\$0.5Å \$0.6Å \$1.7Å \$1.9Å Depreciation expense2.2Å 2.2Å 6.5Å 6.5Å Total finance lease expense\$2.7Å \$2.8Å \$8.2Å \$8.4Å Sublease revenue included in other revenue\$2.5Å \$2.5Å \$7.2Å \$7.3Å Supplemental cash flow information related to leases was as follows:Quarter Ended September 30,Nine Months Ended September 30, (in millions)2024202320242023Cash outflows for operating leases\$15.4Å \$16.9Å \$45.9Å \$50.6Å Cash outflows for finance leases4.3Å 4.3Å 13.0Å 12.9Å 17Table of ContentsSupplemental balance sheet information related to leases was as follows: Operating leases (in millions)September 30, 2024December 31, 2023Operating lease right-of-use assets\$241.6Å \$272.0Å Operating lease liabilities:Other current liabilities\$46.8Å \$46.7Å Other liabilities307.5Å 344.0Å Total operating lease liabilities\$354.3Å \$390.7Å Weighted average remaining lease term (in months)108114Weighted average discount rate4.1Å %3.8Å %Finance leases (in millions)September 30, 2024December 31, 2023Finance lease right-of-use assets\$56.3Å \$62.8Å Finance lease liabilities:Other current liabilities\$8.6Å \$8.4Å Other liabilities52.9Å 59.4Å Total finance lease liabilities\$61.5Å \$67.8Å Weighted average remaining lease term (in months)7887Weighted average discount rate3.5Å %3.5Å %Future minimum lease payments were as follows as of SeptemberÅ 30, 2024 for operating and finance leases:(in millions)Operating LeasesRemainder of 2024\$15.2Å 202558.1Å 202652.7Å 202750.2Å 202849.2Å 202935.2Å Thereafter154.2Å Total lease payments414.8Å Less: imputed interest(60.5)Present value of lease liability\$354.3Å 18Table of Contents(in millions)Finance LeasesRemainder of 2024\$4.4Å 202517.5Å 202617.6Å 202717.8Å 202817.9Å 202918.1Å Thereafter22.9Å Total lease payments116.2Å Less: imputed interest(54.7)Present value of lease liability\$61.5Å 8. GuaranteesMutual Offset Agreement. CME and Singapore Exchange Limited (SGX) maintain a mutual offset agreement with a current term through April 2025. This agreement enables market participants to open a futures position on one exchange and liquidate it on the other. The term of the agreement will automatically renew for a two-year period after April 2025 unless either party provides advance notice of their intent to terminate. CME can maintain collateral in the form of irrevocable, standby letters of credit. At SeptemberÅ 30, 2024, CME was contingently liable to SGX on letters of credit totaling \$400.0 million. CME also maintains a \$350.0 million line of credit to meet its obligations under this agreement. Regardless of the collateral, CME guarantees all cleared transactions submitted through SGX and would initiate procedures designed to satisfy these financial obligations in the event of a default, such as the use of performance bonds and guaranty fund contributions of the defaulting clearing firm. Management has assessed the fair value of the company's™ guarantee liability under this mutual offset agreement by taking the following factors into consideration: the design and operations of the clearing risk management process, the financial safeguard packages in place, historical evidence of default by a clearing member and the estimated probability of potential payouts by the clearing house. Based on the assessment performed, management estimates the guarantee liability to be nominal and therefore has not recorded any liability at SeptemberÅ 30, 2024 and DecemberÅ 31, 2023.Family Farmer and Rancher Protection Fund. In 2012, the company established the Family Farmer and Rancher Protection Fund (the Fund). The Fund is designed to provide payments, up to certain maximum levels, to family farmers, ranchers and other agricultural industry participants who use the company's™ agricultural commodity products and who suffer losses to their segregated account balances due to their CME clearing member becoming insolvent. Under the terms of the Fund, farmers and ranchers are eligible for up to \$25,000 per participant. Farming and ranching cooperatives are eligible for up to \$100,000 per cooperative. The Fund was established with a maximum of \$100.0 million available for distribution to participants. Since its establishment, the Fund has made payments of approximately \$2.0 million, which leaves \$98.0 million available for future claims. If, at any time, payments due to participants were to exceed the amount remaining in the Fund, payments would be pro-rated. Clearing members and customers must register with the company in advance and provide certain documentation in order to substantiate their eligibility. The company believes that its guaranteed liability is nominal and therefore has not recorded any liability at SeptemberÅ 30, 2024 and DecemberÅ 31, 2023.19Table of Contents9. Accumulated Other Comprehensive Income (Loss)The following tables present changes in the accumulated balances for each component of other comprehensive income (loss), including current period other comprehensive income (loss) and reclassifications out of accumulated other comprehensive income (loss):(in millions)Investment SecuritiesDefined Benefit PlansDerivative InvestmentsForeign Currency TranslationTotal Balance at December 31, 2023\$(0.4)\$(23.4)\$62.0Å \$(93.8)\$(55.6)Other comprehensive income (loss) before reclassifications and income tax benefit (expense)0.6Å (5.9)å€“Å 54.8Å 49.5Å Amounts reclassified from accumulated other comprehensive income (loss)å€“Å 0.1Å (2.7)å€“Å (2.6)Income tax benefit (expense)(0.2)1.5Å 0.7Å (4.2)(2.2)Net current period other comprehensive income (loss) 0.4Å (4.3) (2.0)50.6Å 44.7Å Balance at September 30, 2024\$4.8Å \$(27.7)\$60.0Å \$(43.2)\$(10.9) (in millions)Investment SecuritiesDefined Benefit PlansDerivative InvestmentsForeign Currency TranslationTotal Balance at December 31, 2022\$(0.9)\$(22.8)\$64.7Å \$(174.3)\$(133.3)Other comprehensive income (loss) before reclassifications and income tax benefit (expense)(0.1) (0.1)20.7Å 17.1Å Amounts reclassified from accumulated other comprehensive income (loss)å€“Å 0.1Å (2.7)å€“Å (2.6)Income tax benefit (expense)å€“Å 0.8Å 0.7Å å€“Å 1.5Å Net current period other comprehensive income (loss) (0.1)(2.6)(2.0)20.7Å 16.0Å Balance at September 30, 2023\$(1.0)\$(25.4)\$62.7Å \$(153.6)\$(117.3) 10. Fair Value MeasurementsThe company uses a three-level classification hierarchy of fair value measurements for disclosure purposes: å€“Level 1 inputs, which are considered the most reliable evidence of fair value, consist of quoted prices (unadjusted) for identical assets or liabilities in active markets. å€“Level 2 inputs consist of observable market data, such as quoted prices for similar assets and liabilities in active markets, or inputs other than quoted prices that are directly observable. å€“Level 3 inputs consist of unobservable inputs which are derived and cannot be corroborated by market data or other entity-specific inputs. The company's level 1 assets generally include investments in publicly traded mutual funds, equity securities and corporate debt securities with quoted market prices. In general, the company uses quoted prices in active markets for identical assets to determine the fair value of marketable securities. The company's level 2 assets and liabilities generally consist of long-term debt notes. The fair values of the long-term debt notes were based on quoted market prices in an inactive market. The company's level 3 assets and liabilities include certain investments that were adjusted to fair value. 20Table of ContentsRecurring Fair Value Measurements. Financial assets and liabilities recorded at fair value on the consolidated balance sheet as of SeptemberÅ 30, 2024 were classified in their entirety based on the lowest level of input that was significant to each asset and liability's™ fair value measurement. The following table presents financial instruments measured at fair value on a recurring basis:Å September 30, 2024(in millions)Level1Å Level2Å Level3Å TotalAssets at Fair Value:Marketable securitiesCorporate debt securities\$9.4Å \$å€“Å \$9.4Å Mutual funds102.7Å å€“Å 102.7Å Equity securities0.2Å å€“Å 0.2Å Total Marketable Securities\$112.3Å å€“Å 112.3Å Total Assets at Fair Value\$112.3Å å€“Å \$112.3Å Non-Recurring Fair Value Measurements. The company recognized an unrealized gain on investments of \$1.5 million on an equity investment without readily determinable fair value during the first nine months of 2024. The fair value of this investment was estimated to be \$8.6Å million at SeptemberÅ 30, 2024. This fair value assessment was based on quantitative factors, including observable price changes. The fair value measurement of this investment is considered level 3 and non-recurring. This investment is included in other assets on the consolidated balance sheet. Fair Values of Debt Notes. The following presents the estimated fair values of short-term and long-term debt notes, which are carried at amortized cost on the consolidated balance sheets. The fair values below are classified as level 2 under the fair value hierarchy and were estimated using quoted market prices in inactive markets. At SeptemberÅ 30, 2024, the fair values were as follows:(in millions)Fair ValueLevel\$750.0 million fixed rate notes due March 2025\$744.1Å Level 2\$500.0 million fixed rate notes due June 2028498.2Å Level 2\$750.0 million fixed rate notes due March 2032679.0Å Level 2\$750.0 million fixed rate notes due September 2043808.1Å Level 2\$700.0 million fixed rate notes due June 2048631.2Å Level 221Table of Contents11. Earnings Per ShareThe company uses the two-class method to calculate basic and diluted earnings per common share because its Series G preferred stock are participating securities. Under the two-class method, undistributed earnings are allocated to common stock and participating securities according to their respective rights in undistributed earnings, as if all of the earnings for the period had been distributed. Basic earnings per common share is computed by dividing the net income attributable to common shareholders by the weighted average number of common shares outstanding during the period. Net income attributable to common shareholders is reduced for preferred stock dividends earned during the period. Preferred stock also receives a proportionate allocation of undistributed or overdistributed earnings for the period because Series G preferred stock has a contractual obligation to share in profits and losses of the company. Diluted earnings per share is computed by dividing the net income attributable to common shareholders by the weighted average number of common shares outstanding plus potentially dilutive common shares. Anti-dilutive stock awards were as follows for the periods presented:Quarter Ended September 30,Nine Months Ended September 30, (in thousands)2024202320242023Stock awards333Å 333Å 334Å 373Å Total333Å 333Å 334Å 373Å The following table presents the earnings per share calculation for the periods presented:Å Quarter Ended September 30,Nine Months Ended September 30, 2024202320242023Net Income (in millions)\$912.8Å \$750.2Å \$2,651.2Å \$2,411.6Å Less: preferred stock dividends(5.3)(5.0)(15.8)(15.1)Less: undistributed earnings allocated to preferred stock(6.2)(4.4)(17.6)(15.2)Net Income Attributable to Common Shareholders of CME Group\$901.3Å \$740.8Å \$2,617.8Å \$2,381.3Å Weighted Average Number of Common Shares (in thousands)Basic359,400Å 359,020Å 359,329Å 358,965Å Effect of stock options, restricted stock and performance shares589Å 599Å 570Å 483Å Diluted359,989Å 359,619Å 359,899Å 359,448Å Earnings per Common Share Attributable to Common Shareholders of CME Group:Basic\$2.51Å \$2.06Å \$7.29Å \$6.63Å Diluted2.50Å 2.06Å 7.27Å 6.62Å 12. Subsequent EventsThe company has evaluated subsequent events through the date the financial statements were issued. The company has determined that there were no subsequent events that met the requirement for recognition or disclosure in the consolidated financial statements. 22Table of ContentsITEM 2. MANAGEMENT™ S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONSThe following discussion is provided as a supplement to, and should be read in conjunction with, the accompanying unaudited consolidated financial statements and notes in this Quarterly Report on Form 10-Q and our Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on February 28, 2024. References in this discussion and analysis to å€œeweå€ and å€œourå€ are to CME Group Inc. (CME Group) and its consolidated subsidiaries, collectively. References to å€œexchangeå€ are to Chicago Mercantile Exchange Inc. (CME), the Board of Trade of the City of Chicago, Inc. (CBOT), New York Mercantile Exchange, Inc. (NYMEX), and Commodity Exchange, Inc. (COMEX), collectively, unless otherwise noted. RESULTS OF OPERATIONSFinancial HighlightsThe following summarizes significant changes in our financial performance for the periods presented:Å Quarter Ended September 30, Å Nine Months Ended September 30, Å (dollars in millions, except per share data)20242023Change20242023ChangeTotal revenues\$1,584.4Å \$1,337.8Å 18Å %4,604.8Å \$4,139.6Å 11Å %Total expenses560.2Å 517.6Å 8Å 1,620.4Å 1,567.1Å 3Å Operating margin64.6Å 66.1Å 64.8Å 62.1Å %Non-operating income (expense)\$152.7Å \$154.1Å (1)460.4Å \$575.1Å (20)Effective tax rate22.4Å %23.0Å %23.4Å %Net income \$912.8Å \$750.2Å 22Å \$2,651.2Å \$2,411.6Å 10Å Diluted earnings per common share2.50Å 2.06Å 21Å 7.27Å 6.62Å 10Å Cash flows from operating activities2,672.6Å 2,409.5Å 11Å RevenuesÅ Quarter Ended September 30,Nine Months Ended September 30, Å (dollars in millions)20242023Change20242023ChangeClearing and transaction fees\$1,297.1Å \$1,085.5Å 20Å %3,755.9Å \$3,404.0Å 10Å %Market data and information services178.2Å 167.6Å 64.528.6Å 496.5Å 6Å Other109.1Å 84.7Å 29Å 320.3Å 239.1Å 34Å Total Revenues\$1,584.4Å \$1,337.8Å 18Å \$4,604.8Å \$4,139.6Å 11Å Clearing and Transaction FeesFutures and Options ContractsThe following table summarizes our total contract volume, revenue and average rate per contract for futures and options. Total contract volume includes contracts that are traded on our exchange and cleared through our clearing house and certain cleared-only contracts. Volume is measured in round turns, which is considered a completed transaction that involves a purchase and an offsetting sale of a contract. Average rate per contract is determined by dividing total clearing and transaction fees by total contract volume. Contract volume and average rate per contract disclosures exclude trading volume for the cash markets business and interest rate swaps volume. Quarter Ended September 30,Nine Months Ended September 30, Å 20242023Change20242023ChangeTotal contract volume (in millions)1,810.5Å 1,408.2Å 29Å %5,052.8Å 4,492.0Å 12Å %Clearing and transaction fees (in millions)\$1,205.3Å \$994.8Å 21Å \$3,479.3Å \$3,125.6Å 11Å Average rate per contract\$0.666Å \$0.707Å (6)\$0.689Å \$0.696Å (1)23Table of ContentsWe estimate the following net changes in clearing and transaction fees based on the changes in total contract volumes and the changes in average rate per contract for futures and options during the third quarter and first nine months of 2024 when compared with the same periods in 2023. Å (in millions)Quarter Ended Nine Months EndedIncreases due to a changes in total contract volume\$267.9Å \$386.8Å Decreases due to a changes in average rate per contract(57.4)(33.1)Net increases in clearing and transaction fees\$210.5Å \$353.7Å Average rate per contract is impacted by our rate structure, including volume-based incentives; product mix; trading venue; and the percentage of volume executed by customers who are members compared with non-member customers. Due to the relationship between average rate per contract and contract volume, the change in clearing and transaction fees attributable to changes in each is only an approximation. Contract VolumeThe following table summarizes average daily contract volume. Contract volume can be influenced by many factors, including political and economic conditions, the regulatory environment and market competition. Å Quarter Ended September 30,Nine Months Ended September 30, (amounts in millions)

thousands)20242023Change20242023ChangeAverage Daily Volume by Product Line:Interest rates14,88110,96736Â%13,87712,23613Â%Equity indexes7,4076,35317Â7,0186,6236ÂForeign exchange1,08894216Â1,05093712ÂAgricultural commodities1,6141,43313Â1,6961,52112ÂEnergy2,5712,12621Â4,2782,10418ÂMetals72852838Â75859627ÂAggregate average daily volume28,28922,34927Â26,87724,01712ÂAverage Daily Volume by Venue:CME Globex26,19920,83926Â24,79221,96613ÂOpen outcry1,09671354Â1,0821,151(6)Privately negotiated99479725Â1,00390011ÂAggregate average daily volume28,28922,34927Â26,87724,01712ÂElectronic Volume as a Percentage of Total Volume93Â%93Â%92Â%91Â%Market uncertainty remained high through the first nine months of 2024. Interest rate, equity and foreign exchange markets experienced significant uncertainty surrounding the United States' Federal Reserveâ™s (Federal Reserve) interest rate policy. The Federal Open Markets Committee (FOMC) had initially signaled the potential for several future rate cuts throughout 2024, but has since only cut interest rates once as a result of continued inflation. Energy, metals and agricultural commodities markets were more uncertain in the first nine months of 2024 mainly as a result of geopolitical events as well as uncertain weather conditions, which led to higher volumes within those markets. We believe these factors contributed to the increase in total volumes in the third quarter and first nine months of 2024 when compared with the same periods in 2023.24Table of ContentsInterest Rate ProductsThe following table summarizes average daily contract volume for our key interest rate products. We no longer offer Eurodollar contract trading as of June 2023. Â A Quarter Ended September 30,Â Nine Months Ended September 30,Â (amounts in thousands)20242023Change20242023ChangeEurodollar futures and options:Futures expiring within two yearsâ€”A â€”A â€”A 54Â%Optionsâ€”A â€”A â€”A 100Â%SOFR futures and options:Futures expiring within two years3,044Â2,217Â37Â2,676Â2,539Â5ÂOptions1,790Â1,178Â52Â1,661Â1,738Â(4)Futures expiring beyond two years1,069Â819Â31Â954Â804Â19ÂU.S. Treasury futures and options:10-Year3,376Â2,505Â33Â3,279Â2,595Â26Â5-Year2,088Â1,742Â20Â2,014Â1,788Â13Â2-Year1,142Â770Â48Â1,045Â793Â32ÂTreasury Bond699Â594Â18Â701Â538Â30ÂFederal Funds futures and options529Â324Â63Â414Â470Â(12)In the third quarter and first nine months of 2024, overall interest rate contract volumes increased when compared with the same periods in 2023. Volumes increased in the third quarter and first nine months of 2024 due to volatility as a result of mixed inflation results that occurred during 2024 as well as continued market uncertainty regarding the Federal Reserve's interest rate policy. Equity Index ProductsThe following table summarizes average daily contract volume for our key equity index products. Â A Quarter Ended September 30,Â Nine Months Ended September 30,Â (amounts in thousands)20242023Change20242023ChangeE-mini S&P 500 futures and options4,320Â3,865Â12Â%4,136Â4,099Â1Â%E-mini Nasdaq 100 futures and options2,277Â1,862Â22Â2,127Â1,811Â17ÂE-mini Russell 2000 futures and options337Â270Â25Â319Â304Â5ÂEquity index contract volumes increased in the third quarter and first nine months of 2024 when compared with the same periods in 2023 due to periods of higher equity market volatility. We believe the higher volatility was a result of continued uncertainty surrounding the Federal Reserve's interest rate policy decision. Foreign Exchange ProductsThe following table summarizes average daily contract volume for our key foreign exchange products.Â A Quarter Ended September 30,Â Nine Months Ended September 30,Â (amounts in thousands)20242023Change20242023ChangeEuro257Â245Â5Â%257Â251Â2Â%Japanese Yen227Â184Â23Â201Â180Â12ÂBritish Pound126Â114Â112Â123Â112Â10ÂAustralian dollar125Â108Â16Â119Â102Â16ÂIn the third quarter and first nine months of 2024, overall foreign exchange volumes increased when compared with the same periods in 2023. Despite a broad decline in foreign exchange market volatility, there was an increase in price volatility with the Japanese yen due to uncertainty surrounding the Japanese monetary policy and rate cuts from the Federal Reserve. The overall increases in volumes were also due to growing client adoption of our foreign currency products. 25Table of ContentsAgricultural Commodity ProductsThe following table summarizes average daily contract volume for our key agricultural commodity products.Â A Quarter Ended September 30,Â Nine Months Ended September 30,Â (amounts in thousands)20242023Change20242023ChangeCorn481Â427Â13Â%509Â468Â9Â%Soybean329Â286Â15Â352Â312Â13ÂWheat196Â203Â(4)234Â211Â11ÂOverall commodity contract volumes increased in the third quarter and first nine months of 2024 when compared with the same periods in 2023. We believe these increases were due to higher overall market volatility as a result of a change in market expectations regarding grain supplies as well as uncertain weather conditions in 2024. In addition, the first nine months of 2023 saw lower overall volatility within the commodities markets due to risk aversion by market participants following price increases and global trade uncertainty resulting from the conflict between Russia and Ukraine. We believe these factors contributed to higher overall commodity volumes in the third quarter and first nine months of 2024 compared with the same periods in 2023. Energy ProductsThe following table summarizes average daily contract volume for our key energy products.Â A Quarter Ended September 30,Â Nine Months Ended September 30,Â (amounts in thousands)20242023Change20242023ChangeWTI crude oil1,290Â1,129Â14Â%1,185Â1,091Â9Â%Natural gas723Â533Â36Â780Â577Â35ÂRefined products388Â368Â5Â383Â345Â11ÂEnergy contract volumes increased in the third quarter and first nine months of 2024 when compared with the same periods in 2023, which we believe were due to higher overall market volatility. Natural gas volatility was higher as a result of uncertain weather conditions in the United States, which impacted prices throughout the quarter. In addition, crude oil volatility was slightly higher as a result of ongoing geopolitical issues in the Middle East as well as economic uncertainty between the United States and China. Metal ProductsThe following table summarizes average daily volume for our key metal products. Â A Quarter Ended September 30,Â Nine Months Ended September 30,Â (amounts in thousands)20242023Change20242023ChangeGold447Â300Â49Â%436Â354Â23Â%Copper113Â104Â8Â145Â115Â27ÂSilver119Â88Â35Â127Â93Â36ÂIn the third quarter and first nine months of 2024, overall metal contract volumes increased when compared with the same periods in 2023. We believe gold and silver volumes increased as a result of continued uncertainty surrounding the Federal Reserve's monetary policy decision, which resulted in higher overall volatility. Average Rate per Contract The average rate per contract decreased in the third quarter and first nine months of 2024 when compared with the same periods in 2023. The decreases in the average rate per contract were primarily due to higher member trading as a percentage of total volume as well as our tiered volume pricing structure. The overall decrease was partially offset by an increase in our fee structure, which went into effect on February 1, 2024. The decrease in the third quarter of 2024 when compared with the same period in 2023 is also do to a change in product mix. In the third quarter of 2024, interest rate contract volume increased by 4 percentage points as a percent of total volume, while all other products collectively decreased by 4 percentage points. In general, interest rate products have a lower rate per contract compared with the remaining contracts.26Table of ContentsCash Markets BusinessTotal clearing and transaction fees revenues in the third quarter and first nine months of 2024 include \$68.5 million and \$207.9 million of transaction fees attributable to the cash markets business, compared with \$69.5 million and \$214.3 million, respectively, in the third quarter and first nine months of 2023. This revenue includes BrokerTec Americas LLC's fixed income volume and EBS's foreign exchange volume.Â A Quarter Ended September 30,Â Nine Months Ended September 30,Â (amounts in millions)20242023Change20242023ChangeBrokerTec fixed income transaction fees\$33.3Â\$37.3Â(11)%\$108.9Â\$114.3Â(5)%EBS foreign exchange transaction fees35.2Â32.2Â9Â%99.0Â100.0Â(1)%The related average daily notional value for the third quarter and first nine months of 2024 and 2023 were as follows:Â A Quarter Ended September 30,Â Nine Months Ended September 30,Â (amounts in billions)20242023Change20242023ChangeEuropean Repo (in euros)\$285.9Â\$313.9Â(9)%\$289.5Â\$340.1Â(15)%U.S. Treasury109.3Â98.3Â11Â%102.1Â106.9Â(4)Spot FX67.0Â54.4Â23Â%58.9Â57.9Â2ÂOverall average daily notional values for the cash markets business were slightly lower in the third quarter and first nine months of 2024 when compared with the same periods in 2023. Concentration of RevenueWe bill a substantial portion of our clearing and transaction fees directly to our clearing firms. The majority of clearing and transaction fees received from clearing firms represent charges for trades executed and cleared on behalf of their customers. One individual firm represented at least approximately 10% of our clearing and transaction fees in the first nine months of 2024. Should a clearing firm withdraw, we believe that the customer portion of the firmâ™s trading activity would likely transfer to another clearing firm of the exchange. Therefore, we do not believe we are exposed to significant risk from the ongoing loss of revenue received from or through a particular clearing firm. Other Sources of RevenueMarket data and information services. During the third quarter and first nine months of 2024, overall market data and information services revenues increased when compared with the same periods in 2023, largely due to price increases for certain products. The two largest resellers of our market data represented approximately 30% of our market data and information services revenue in the first nine months of 2024. Despite this concentration, we consider exposure to significant risk of revenue loss to be minimal. In the event that one of these vendors no longer subscribes to our market data, we believe the majority of that vendorâ™s customers would likely subscribe to our market data through another reseller. Additionally, several of our largest institutional customers that utilize services from our two largest resellers report usage and remit payment of their fees directly to us. Other revenues. In the third quarter and first nine months of 2024, the increases in other revenues when compared with the same periods in 2023 were largely attributable to higher custody fees due to an increase in non-cash collateral as well as a fee increase. Other revenues also increased mainly due to higher co-location fees.27Table of ContentsExpensesÂ A Quarter Ended September 30,Â Nine Months Ended September 30,Â (Â Dollars in millions)20242023Change20242023ChangeCompensation and benefits\$218.8Â\$205.5Â6Â%\$629.5Â\$615.7Â2Â%Technology66.6Â55.6Â20Â190.1Â160.2Â19ÂProfessional fees and outside services31.0Â32.2Â(4)98.8Â108.3Â(9)Amortization of purchased intangibles55.7Â57.2Â(2)166.4Â171.0Â(3)Depreciation and amortization28.2Â31.1Â(9)87.0Â95.3Â(9)Licensing and other fee agreements97.6Â79.5Â23Â271.4Â242.4Â12ÂOther62.3Â56.5Â104Â177.2Â174.2Â2ÂTotal Expenses\$560.2Â\$517.6Â8Â\$1,620.4Â\$1,567.1Â3Â%Operating expenses increased by \$42.6 million and \$53.3 million in the third quarter and first nine months of 2024 when compared with the same periods in 2023. The following table shows the estimated impacts of key factors resulting in the changes in operating expenses:Â A Â A Quarter Ended September 30,Â Nine Months Ended September 30,Â 2024Â A AmountÂ ofChangeChangeÂ asÂ A PercentageÂ ofTotalÂ ExpensesAmountÂ ofChangeChangeÂ asÂ A PercentageÂ ofTotalÂ Expenses(dollars in millions)Technology support services\$11.1Â2Â%\$29.7Â2Â%License fees18.1Â4Â29.0Â2ÂSalaries, benefits and employer taxes12.6Â2Â16.5Â1ÂDepreciation and amortization(3.0)(1)(8.3)ÂA Occupancy and building operations(3.9)(1)(9.2)(1)Professional fees and outside services(1.2)Â(9.5)(1)Other expenses, net8.9Â2Â5.1ÂÂ(2)ÂTotal increase\$42.6Â8Â%\$53.3Â3Â%Increases in operating expenses in the third quarter and first nine months of 2024 when compared with the same periods in 2023 were as follows:Â A The increases in expenses related to technology support services were primarily driven by higher software license fees and third party services to support the ongoing Google Cloud transformation project.Â A License fees were higher primarily due to increases in volume for certain equity products and improved revenue performance related to certain arrangements.Â A Salaries, benefits and employer taxes were higher due to increases in headcount during the year, which were primarily attributable to additional headcount in the company's international locations, as well as an increase in compensation expenses due to a law change for vacation carryover. Decreases in operating expenses in the third quarter and first nine months of 2024 when compared with the same periods in 2023 were as follows:Â A Depreciation and amortization expense decreased as a result of a decline in fixed asset purchases over the last few years and certain assets becoming fully depreciated.Â A Occupancy and building operations expenses decreased due to lower rent expenses and real estate taxes.Â A The decreases in professional fees and outside services are largely due to decreases in consulting costs associated with the Google Cloud Migration, which began in late 2021, as well as lower legal fees during the periods.28Table of ContentsNon-Operating Income (Expense)Â A Â A Quarter Ended September 30,Â Nine Months Ended September 30,Â (Â Dollars in millions)20242023Change20242023ChangeInvestment income\$1,026.8Â\$1,272.5Â(19)%\$3,142.6Â\$4,198.4Â(25)%Interest and other borrowing costs(40.2)(39.6)2Â(120.2)(119.7)Â%Equity in net earnings of unconsolidated subsidiaries86.1Â176.8Â12Â259.7Â230.1Â13ÂOther non-operating income (expense)(920.0)(1,155.6)(20)(2,821.7)(3,733.7)(24)Total Non-Operating\$152.7Â\$154.1Â(1)Â\$460.4Â\$575.1Â(20)Investment income. Earnings from cash performance bond and guaranty fund contributions that are reinvested decreased in the third quarter and first nine months of 2024 when compared with the same periods in 2023 due to lower average reinvestment balances. In the third quarter and first nine months of 2024, earnings from cash performance bond and guaranty fund contributions were \$991.3Â million and \$3,035.6Â million, compared with \$1,246.5Â million and \$4,042.9Â million, respectively, in the third quarter and first nine months of 2023. We also recognized lower net realized and unrealized gains on investments in the first nine months of 2024. Equity in net earnings (losses) of unconsolidated subsidiaries. Higher income generated from our S&P/Dow Jones Indices LLC (S&P/DJ) business venture contributed to an increase in equity in net earnings of unconsolidated subsidiaries in the third quarter and first nine months of 2024 when compared with the same periods in 2023. Other non-operating income (expense). We recognized lower expenses related to the distribution of interest earned on performance bond collateral reinvestments to the clearing firms in conjunction with lower interest income earned on our reinvestment during the third quarter and first nine months of 2024 when compared with the same periods in 2023. In the third quarter and first nine months of 2024, expenses related to the distribution of interest earned on collateral reinvestments were \$922.6Â million and \$2,829.4Â million, compared with \$1,160.5Â million and \$3,756.8Â million in the third quarter and first nine months of 2023. Income Tax ProvisionThe following table summarizes the effective tax rates for the periods presented:Â A 20242023Quarter ended September 302022.4Â%23.0Â%Nine months ended September 3023.0Â23.4ÂThe overall effective tax rate remained relatively consistent in the third quarter and first nine months of 2024 when compared with the same periods in 2023. Liquidity and Capital ResourcesSources and Uses of Cash. Net cash provided by operating activities increased in the first nine months of 2024 when compared with the same period in 2023 was largely due to an increase in revenues. Cash used in investing activities increased in the first nine months of 2024 when compared with the same period in 2023 due to a decrease in proceeds from sales of investments. Cash provided by financing activities was higher during the first nine months of 2024 when compared with the same period in 2023 due to an increase in cash performance bonds and guaranty fund contributions.29Table of ContentsDebt Instruments. The following table summarizes our debt outstanding at SeptemberÂ 30, 2024: (in millions)ParÂ ValueFixed rate notes due March 2025, stated rate of 3.00% (1)%\$750.0ÂFixed rate notes due June 2028, stated rate of 3.75%\$500.0ÂFixed rate notes due March 2032, stated rate of 2.65%\$750.0ÂFixed rate notes due September 2043, stated rate of 5.30% (2)%\$750.0ÂFixed rate notes due June 2048, stated rate of 4.15%\$700.0Â(1)We maintained a forward-starting interest rate swap agreement that modified the interest obligation associated with these notes so that the interest payable on the notes effectively became fixed at a rate of 3.11%. (2)We maintained a forward-starting interest rate swap agreement that modified the interest obligation associated with these notes so that the interest payable effectively became fixed at a rate of 4.73%. We maintain a \$2.3 billion multi-currency revolving senior credit facility with various financial institutions, which matures in November 2026. The proceeds from this facility can be used for general corporate purposes, which includes providing liquidity for our clearing house in certain circumstances at CME Group's discretion and, if necessary, for maturities of commercial paper. As long as we are not in default under this facility, we have the option to increase it up to \$3.3 billion with the consent of the agent and lenders providing the additional funds. This facility is voluntarily pre-payable from time to time without premium or penalty. Under this facility, we are required to remain in compliance with a consolidated net worth test, which is defined as our consolidated shareholders' equity at September 30, 2021, giving effect to share repurchases made and special dividends paid during the term of the agreements (and in no event greater than \$2.0 billion in aggregate), multiplied by 0.65. We currently do not have any borrowings outstanding under this facility, but any commercial paper balance if or when outstanding can be backstopped against this facility. We maintain a 364-day multi-currency revolving secured credit facility with a consortium of domestic and international banks to be used in certain situations by the clearing house. The facility provides for borrowings of up to \$7.0 billion. We may use the proceeds to provide temporary liquidity in the unlikely event a clearing firm fails to promptly discharge an obligation to the clearing house operated by CME, in the event of a liquidity constraint or default by a depositary (custodian for our collateral), in the event of a temporary disruption with the domestic payments system that would delay payment of settlement variation between us and our clearing firms, or in other cases as provided by the CME rulebook. Clearing firm guaranty fund contributions received in the form of cash or U.S. Treasury securities as well as the performance bond assets (pursuant to the CME rulebook) can be used to collateralize the facility. At SeptemberÂ 30, 2024, guaranty fund contributions available to collateralize the facility totaled \$10.0Â billion. We have the option to request an increase in the line from \$7.0 billion to \$10.0 billion. Our 364-day facility contains a requirement that CME remain in compliance with a consolidated tangible net worth test, defined as CME's consolidated shareholder's equity less intangible assets (as defined in the agreement), of not less than \$800.0 million. We currently do not have any borrowings outstanding under this facility. The indentures governing our fixed rate notes, our \$2.3 billion multi-currency revolving senior credit facility and our 364-day multi-currency revolving secured credit facility for \$7.0 billion do not contain specific covenants that restrict the ability to pay dividends. These documents, however, do contain other customary financial and operating covenants that place restrictions on the operations of the company that could indirectly affect the ability to pay dividends. At SeptemberÂ 30, 2024, we have excess borrowing capacity for general corporate purposes of approximately \$2.3 billion under our multi-currency revolving senior

Instead, it relies on dividends declared and paid to it by its subsidiaries in order to provide the funds which it uses to pay dividends to its shareholders. To satisfy our performance bond obligation with Singapore Exchange Limited, we may pledge irrevocable standby letters of credit. At September 30, 2024, the letters of credit totaled \$400.0 million. We also maintain a \$350.0 million line of credit to meet our obligations under this agreement.30Table of ContentsThe following table summarizes our credit ratings at September 30, 2024: A A A Short-Term A Long-Term A A Rating Agency A Debt Rating A Outlook Standard & Poor's Global Ratings A A1+A A AA A Stable Moody's Investors Service, Inc. A P1 A A3 A Stable Given our cash flow generation, our ability to pay down debt levels and our ability to refinance existing debt facilities if necessary, we expect to maintain an investment grade rating. If our ratings are downgraded below investment grade within certain specified time periods due to a change of control, we are required to make an offer to repurchase our fixed rate notes at a price equal to 101% of the principal amount, plus accrued and unpaid interest. No report of any rating agency is incorporated by reference herein. Liquidity and Cash Management. Cash and cash equivalents totaled \$2.3 billion and \$2.9 billion at September 30, 2024 and December 31, 2023, respectively. The balance retained in cash and cash equivalents is a function of anticipated or possible short-term cash needs, prevailing interest rates, our corporate investment policy and alternative investment choices. A majority of our cash and cash equivalents balance is invested in money market mutual funds that invest only in U.S. Treasury securities, U.S. government agency securities and U.S. Treasury security reverse repurchase agreements and short-term bank deposits. Our exposure to credit and liquidity risk is minimal given the nature of the investments. Cash that is not available for general corporate purposes because of regulatory requirements or other restrictions is classified as restricted cash and is included in cash performance bonds and guaranty fund contributions, other current assets or other assets in the consolidated balance sheets. On November 7, 2024, the company declared a regular quarterly dividend of \$1.15 per share for all outstanding common and preferred shares. The dividend will be payable on December 27, 2024 to shareholders of record on December 9, 2024. Assuming no changes in the number of shares outstanding, the fourth quarter dividend payment will total approximately \$420 million. Regulatory Requirements. CME is regulated by the CFTC as a Derivatives Clearing Organization (DCO). DCOs are required to maintain capital, as defined by the CFTC, in an amount at least equal to one year of projected operating expenses as well as cash, liquid securities, or a line of credit at least equal to six months of projected operating expenses. CME was designated by the Financial Stability Oversight Council as a systemically important financial market utility under Title VIII of the Dodd-Frank Wall Street Reform and Consumer Protection Act. As a result, CME must comply with CFTC regulations applicable to a systemically important DCO for financial resources and liquidity resources. CME is in compliance with all DCO financial requirements. CME, CBOT, NYMEX and COMEX are regulated by the CFTC as Designated Contract Markets (DCM). DCMs are required to maintain capital, as defined by the CFTC, in an amount at least equal to one year of projected operating expenses as well as cash, liquid securities or a line of credit at least equal to six months of projected operating expenses. Our DCMs are in compliance with all DCM financial requirements. BrokerTec Americas LLC is required to maintain sufficient net capital under Securities Exchange Act of 1934, as amended (Exchange Act), Rule 15c3-1 (the Net Capital Rule). The Net Capital Rule focuses on liquidity and is designed to protect securities customers, counterparties, and creditors by requiring that broker-dealers have sufficient liquid resources on hand at all times to satisfy claims promptly. Rule 15c3-3, or the customer protection rule, which complements Rule 15c3-1, is designed to ensure that customer property (securities and funds) in the custody of broker-dealers is adequately safeguarded. By law, both of these rules apply to the activities of registered broker-dealers, but not to unregistered affiliates. The firm began operating as a (k)(2)(i) broker dealer in November 2017 following notification to the Financial Industry Regulatory Authority and the SEC. A company operating under the (k)(2)(i) exemption is not required to lock up customer funds as would otherwise be required under Exchange Act Rule 15c3-3. ITEM A 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK We are subject to various market risks, including those caused by changes in interest rates, credit, foreign currency exchange rates and equity prices. There have not been material changes in our exposure to market risk since December 31, 2023. Refer to Item A 7A. of CME Group's Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on February 28, 2024, for additional information. ITEM A 4. CONTROLS AND PROCEDURES(a) Disclosure Controls and Procedures. Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, has evaluated the effectiveness of our disclosure controls and procedures (as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) as of the end of the period covered by this report. Based on such evaluation, 31Table of Contents our Chief Executive Officer and Chief Financial Officer have concluded that, as of the end of such period, our disclosure controls and procedures are effective. (b) Changes in Internal Control Over Financial Reporting. As required by Rule 13a-15(d) under the Exchange Act, the company's management, including the company's Chief Executive Officer and Chief Financial Officer, have evaluated the company's internal control over financial reporting (as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) to determine whether any changes occurred during the quarter covered by this quarterly report that have materially affected, or are reasonably likely to materially affect, the company's internal control over financial reporting. There were no changes in the company's internal control over financial reporting which occurred during the fiscal quarter ended September 30, 2024, that have materially affected, or are reasonably likely to materially affect, the company's internal control over financial reporting. PART II. OTHER INFORMATION ITEM A 1. LEGAL PROCEEDINGS The disclosure under A 1. Legal and Regulatory Matters in Note 6. Contingencies in the Notes to Unaudited Consolidated Financial Statements in Item 1 of Part I of this report is incorporated herein by reference. Such disclosure includes updates to the legal proceedings disclosed in the company's Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on February 28, 2024. ITEM A 1A. RISK FACTORS There have been no material changes in the company's risk factors from those disclosed in the company's Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on February 28, 2024. ITEM A 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS Issuer Purchases of Equity Securities Period (a) Total Number of Class A Shares Purchased (1) (b) Average Price Paid Per Share (c) Total Number of Class A Shares Purchased as Part of Publicly Announced Plans or Programs (d) Maximum Number (or Approximate Value) of shares that May Yet Be Purchased Under the Plans or Programs (in millions) July 1 to July 31 2024 \$195.50 A \$4 A August 1 to August 31 2024 208.41 A A September 1 to September 30 2024 1,073A 216.99 A A Total 81,406 A A (1) Shares purchased consist of an aggregate of 81,406 shares of Class A common stock surrendered in the third quarter of 2024 to satisfy employees' tax obligations upon the vesting of restricted stock. 32Table of Contents ITEM A 6. EXHIBITS 31.1 A Section 302 Certification A Terrence A. Duffy 31.2 A Section 302 Certification A Lynne Fitzpatrick 32.1 A Section 906 Certification 101 A The following materials from CME Group Inc.'s Quarterly Report on Form 10-Q for the quarter period ended September 30, 2024, formatted in Inline XBRL (Xensible Business Reporting Language): (i) the Consolidated Balance Sheets, (ii) the Consolidated Statements of Income, (iii) the Consolidated Statements of Comprehensive Income, (iv) the Consolidated Statements of Equity, (v) the Consolidated Statements of Cash Flows and (vi) Notes to Unaudited Consolidated Financial Statements, tagged as blocks of text. 104 A Cover Page Interactive Data File included in the Inline XBRL Document Set for Exhibit 101.101.DEFA A XBRL Taxonomy Extension Definition Linkbase 101.LAB A XBRL Taxonomy Extension Label Linkbase Document 101.PRE A XBRL Taxonomy Extension Presentation Linkbase Document 33Table of Contents SIGNATURES Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized. A A A CME Group Inc. (Registrant) Dated: November 8, 2024 A By: A A /s/ Lynne Fitzpatrick A A Lynne Fitzpatrick Senior Managing Director and Chief Financial Officer Principal Financial Officer and Duly Authorized Officer 34 Document Exhibit 31.1 CERTIFICATION, Terrence A. Duffy, certify that: A A A 1. I have reviewed this report on Form 10-Q of CME Group Inc.; A A A 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report; A A A 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report; A A A 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have: A A A a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared; A A A b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles; A A A c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and A A A d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and A A A 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions): A A A a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and A A A b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting. Dated: November 8, 2024/s/ Terrence A. Duffy Name: Terrence A. Duffy Title: Chief Executive Officer Document Exhibit 31.2 CERTIFICATION, Lynne Fitzpatrick, certify that: A A A 1. I have reviewed this report on Form 10-Q of CME Group Inc.; A A A 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report; A A A 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report; A A A 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have: A A A a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared; A A A b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles; A A A c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and A A A d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and A A A 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions): A A A a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and A A A b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting. Dated: November 8, 2024/s/ Lynne Fitzpatrick Name: Lynne Fitzpatrick Title: Chief Financial Officer Document Exhibit 32.1 CERTIFICATION OF CEO AND CFO PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002 A A A In connection with the Quarterly Report on Form 10-Q of CME Group Inc. (the "Company") for the quarter ended September 30, 2024 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), Terrence A. Duffy, as Chief Executive Officer of the Company, and Lynne Fitzpatrick, as Chief Financial Officer of the Company, each hereby certifies, pursuant to 18 U.S.C. A 1350, as adopted pursuant to A 906 of the Sarbanes-Oxley Act of 2002, that, to the best of his knowledge: A A A (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and A A A (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. /s/ Terrence A. Duffy Name: Terrence A. Duffy Title: Chief Executive Officer Dated: November 8, 2024 /s/ Lynne Fitzpatrick Name: Lynne Fitzpatrick Title: Chief Financial Officer Dated: November 8, 2024 A A A This certification accompanies the Report pursuant to A 906 of the Sarbanes-Oxley Act of 2002 and shall not, except to the extent required by the Sarbanes-Oxley Act of 2002, be deemed filed by the Company for purposes of A 18 of the Securities Exchange Act of 1934, as amended. A A A A signed original of this written statement required by A 906 of the Sarbanes-Oxley Act of 2002 has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission on its staff upon request.