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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, 20234,584Â 359,231Â 3Â \$22,338.3Â \$4,455.2Â \$(55.6)\$26,737.9Â Net income2,651.2Â 2,651.2Â Other comprehensive income (loss)44.7Â 44.7Â Dividends on common and preferred stock of \$3.45 per share(1,258.2)Â (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 \$22,378.9Â \$5,848.2Â \$(10.9)\$28,216.2Â 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)\$26,735.8Â 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 \$22,378.9Â \$5,848.2Â \$(10.9)\$28,216.2Â 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, 20224,584Â 358,929Â 3Â \$22,265.2Â \$4,746.8Â \$(133.3)\$26,878.7Â Net income 2,411.6Â 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, 20234,584Â 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 Shareholders' EquityBalance at June 30, 20234,584Â 358,978Â 3Â \$22,311.2Â \$5,606.8Â \$(100.2)\$27,817.8Â Net income750.2Â 750.2Â Other comprehensive income (loss)(17.1)(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 Directors20Â 3.6Â 3.6Â Shares issued under Employee Stock Purchase Plan21Â 3.8Â 3.8Â Stock-based compensation18.9Â 18.9Â Balance at September 30, 20234,584Â 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 95.3Â 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€”(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 Period101,785.6Â \$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 Totals\$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 4 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 Metals*71.8Â 49.6Â 218.4Â 166.9Â BrokerTec 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 Other 109.1Â 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 794.8Â One-time charges and miscellaneous revenues4.9Â 7.4Â 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 payments 13Table 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 5Â 6Â 7Â 8Â 9Â 10Â 11Â 12Â 13Â 14Â 15Â 16Â 17Â 18Â 19Â 20Â 21Â 22Â 23Â 24Â 25Â 26Â 27Â 28Â 29Â 30Â 31Â 32Â 33Â 34Â 35Â 36Â 37Â 38Â 39Â 40Â 41Â 42Â 43Â 44Â 45Â 46Â 47Â 48Â 49Â 50Â 51Â 52Â 53Â 54Â 55Â 56Â 57Â 58Â 59Â 60Â 61Â 62Â 63Â 64Â 65Â 66Â 67Â 68Â 69Â 70Â 71Â 72Â 73Â 74Â 75Â 76Â 77Â 78Â 79Â 80Â 81Â 82Â 83Â 84Â 85Â 86Â 87Â 88Â 89Â 90Â 91Â 92Â 93Â 94Â 95Â 96Â 97Â 98Â 99Â 100Â 101Â 102Â 103Â 104Â 105Â 106Â 107Â 108Â 109Â 110Â 111Â 112Â 113Â 114Â 115Â 116Â 117Â 118Â 119Â 120Â 121Â 122Â 123Â 124Â 125Â 126Â 127Â 128Â 129Â 130Â 131Â 132Â 133Â 134Â 135Â 136Â 137Â 138Â 139Â 140Â 141Â 142Â 143Â 144Â 145Â 146Â 147Â 148Â 149Â 150Â 151Â 152Â 153Â 154Â 155Â 156Â 157Â 158Â 159Â 160Â 161Â 162Â 163Â 164Â 165Â 166Â 167Â 168Â 169Â 170Â 171Â 172Â 173Â 174Â 175Â 176Â 177Â 178Â 179Â 180Â 181Â 182Â 183Â 184Â 185Â 186Â 187Â 188Â 189Â 190Â 191Â 192Â 193Â 194Â 195Â 196Â 197Â 198Â 199Â 200Â 201Â 202Â 203Â 204Â 205Â 206Â 207Â 208Â 209Â 210Â 211Â 212Â 213Â 214Â 215Â 216Â 217Â 218Â 219Â 220Â 221Â 222Â 223Â 224Â 225Â 226Â 227Â 228Â 229Â 230Â 231Â 232Â 233Â 234Â 235Â 236Â 237Â 238Â 239Â 240Â 241Â 242Â 243Â 244Â 245Â 246Â 247Â 248Â 249Â 250Â 251Â 252Â 253Â 254Â 255Â 256Â 257Â 258Â 259Â 260Â 261Â 262Â 263Â 264Â 265Â 266Â 267Â 268Â 269Â 270Â 271Â 272Â 273Â 274Â 275Â 276Â 277Â 278Â 279Â 280Â 281Â 282Â 283Â 284Â 285Â 286Â 287Â 288Â 289Â 290Â 291Â 292Â 293Â 294Â 295Â 296Â 297Â 298Â 299Â 300Â 301Â 302Â 303Â 304Â 305Â 306Â 307Â 308Â 309Â 310Â 311Â 312Â 313Â 314Â 315Â 316Â 317Â 318Â 319Â 320Â 321Â 322Â 323Â 324Â 325Â 326Â 327Â 328Â 329Â 330Â 331Â 332Â 333Â 334Â 335Â 336Â 337Â 338Â 339Â 340Â 341Â 342Â 343Â 344Â 345Â 346Â 347Â 348Â 349Â 350Â 351Â 352Â 353Â 354Â 355Â 356Â 357Â 358Â 359Â 360Â 361Â 362Â 363Â 364Â 365Â 366Â 367Â 368Â 369Â 370Â 371Â 372Â 373Â 374Â 375Â 376Â 377Â 378Â 379Â 380Â 381Â 382Â 383Â 384Â 385Â 386Â 387Â 388Â 389Â 390Â 391Â 392Â 393Â 394Â 395Â 396Â 397Â 398Â 399Â 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600Â 601Â 602Â 603Â 604Â 605Â 606Â 607Â 608Â 609Â 610Â 611Â 612Â 613Â 614Â 615Â 616Â 617Â 618Â 619Â 620Â 621Â 622Â 623Â 624Â 625Â 626Â 627Â 628Â 629Â 630Â 631Â 632Â 633Â 634Â 635Â 636Â 637Â 638Â 639Â 640Â 641Â 642Â 643Â 644Â 645Â 646Â 647Â 648Â 649Â 650Â 651Â 652Â 653Â 654Â 655Â 656Â 657Â 658Â 659Â 660Â 661Â 662Â 663Â 664Â 665Â 666Â 667Â 668Â 669Â 670Â 671Â 672Â 673Â 674Â 675Â 676Â 677Â 678Â 679Â 680Â 681Â 682Â 683Â 684Â 685Â 686Â 687Â 688Â 689Â 690Â 691Â 692Â 693Â 694Â 695Â 696Â 697Â 698Â 699Â 700Â 701Â 702Â 703Â 704Â 705Â 706Â 707Â 708Â 709Â 710Â 711Â 712Â 713Â 714Â 715Â 716Â 717Â 718Â 719Â 720Â 721Â 722Â 723Â 724Â 725Â 726Â 727Â 728Â 729Â 730Â 731Â 732Â 733Â 734Â 735Â 736Â 737Â 738Â 739Â 740Â 741Â 742Â 743Â 744Â 745Â 746Â 747Â 748Â 749Â 750Â 751Â 752Â 753Â 754Â 755Â 756Â 757Â 758Â 759Â 760Â 761Â 762Â 763Â 764Â 765Â 766Â 767Â 768Â 769Â 770Â 771Â 772Â 773Â 774Â 775Â 776Â 777Â 778Â 779Â 780Â 781Â 782Â 783Â 784Â 785Â 786Â 787Â 788Â 789Â 790Â 791Â 792Â 793Â 794Â 795Â 796Â 797Â 798Â 799Â 800Â 801Â 802Â 803Â 804Â 805Â 806Â 807Â 808Â 809Â 810Â 811Â 812Â 813Â 814Â 815Â 816Â 817Â 818Â 819Â 820Â 821Â 822Â 823Â 824Â 825Â 826Â 827Â 828Â 829Â 830Â 831Â 832Â 833Â 834Â 835Â 836Â 837Â 838Â 839Â 840Â 841Â 842Â 843Â 844Â 845Â 846Â 847Â 848Â 849Â 850Â 851Â 852Â 853Â 854Â 855Â 856Â 857Â 858Â 859Â 860Â 861Â 862Â 863Â 864Â 865Â 866Â 867Â 868Â 869Â 870Â 871Â 872Â 873Â 874Â 875Â 876Â 877Â 878Â 879Â 880Â 881Â 882Â 883Â 884Â 885Â 886Â 887Â 888Â 889Â 890Â 891Â 892Â 893Â 894Â 895Â 896Â 897Â 898Â 899Â 900Â 901Â 902Â 903Â 904Â 905Â 906Â 907Â 908Â 909Â 910Â 911Â 912Â 913Â 914Â 915Â 916Â 917Â 918Â 919Â 920Â 921Â 922Â 923Â 924Â 925Â 926Â 927Â 928Â 929Â 930Â 931Â 932Â 933Â 934Â 935Â 936Â 937Â 938Â 939Â 940Â 941Â 942Â 943Â 944Â 945Â 946Â 947Â 948Â 949Â 950Â 951Â 952Â 953Â 954Â 955Â 956Â 957Â 958Â 959Â 960Â 961Â 962Â 963Â 964Â 965Â 966Â 967Â 968Â 969Â 970Â 971Â 972Â 973Â 974Â 975Â 976Â 977Â 978Â 979Â 980Â 981Â 982Â 983Â 984Â 985Â 986Â 987Â 988Â 989Â 990Â 991Â 992Â 993Â 994Â 995Â 996Â 997Â 998Â 999Â 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rate of 2.65% 743.54 742.94 \$750.0 million fixed rate notes due September 2043, stated rate of 5.30% (2)744.24 744.04 \$700.0 million fixed rate notes due June 2048, stated rate of 4.15%691.6A 691.3A Total long-term debt\$2,677.7A \$3,425.4A (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 SeptemberA 30, 2024: (in millions)Par Value2025a€"A 2026a€"A 2027a€"A 2028500.0A 2029a€"A Thereafter2,200.0A 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 defendantsa€" respective Certificates of Incorporation. On December 2, 2021, the court granted the plaintiffsa€" 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 SeptemberA 30, 2024 and DecemberA 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, managementa€"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 companya€"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\$12.7A \$13.8A \$38.9A \$41.7A Short-term lease cost0.1A 0.1A 0.3A 0.3A Total operating lease expense included in other expenses\$12.8A \$13.9A \$39.2A \$42.0A Finance lease expense:Interest expense\$0.5A \$0.6A \$1.7A \$1.9A Depreciation expense2.2A 2.2A 6.5A 6.5A Total finance lease expense\$2.7A \$2.8A \$8.2A \$8.4A Sublease revenue included in other revenue\$2.5A \$2.5A \$7.2A \$7.3A 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\$15.4A \$16.9A \$45.9A \$50.6A Cash outflows for finance leases4.3A 4.3A 13.0A 12.9A 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\$241.6A \$272.0A Operating lease liabilities:Other current liabilities\$46.8A \$46.7A Other liabilities307.5A 344.0A Total operating lease liabilities\$354.3A \$390.7A Weighted average remaining lease term (in months)108114Weighted average discount rate4.1%3.8A %Finance leases (in millions)September 30, 2024December 31, 2023Finance lease right-of-use assets\$56.3A \$62.8A Finance lease liabilities:Other current liabilities\$8.6A \$8.4A Other liabilities52.9A 59.4A Total finance lease liabilities\$61.5A \$67.8A Weighted average remaining lease term (in months)7887Weighted average discount rate3.5A %3.5A %Future minimum lease payments were as follows as of SeptemberA 30, 2024 for operating and finance leases:(in millions)Operating LeasesRemainder of 2024\$15.2A 202558.1A 202652.7A 202750.2A 202849.2A 202935.2A Thereafter154.2A Total lease payments\$414.8A Less: imputed interest(60.5)Present value of lease liability\$354.3A 18Table of Contents(in millions)Finance LeasesRemainder of 2024\$4.4A 202517.5A 202617.6A 202717.8A 202817.9A 202918.1A Thereafter22.9A Total lease payments\$116.2A Less: imputed interest(54.7)Present value of lease liability\$61.5A 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 SeptemberA 30, 2024, CME was contingently liable to SGX on letters of credit totaling \$400.0 million. CME also maintains a \$350.0A 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 companya€"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 SeptemberA 30, 2024 and DecemberA 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 companya€"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 guarantee liability is nominal and therefore has not recorded any liability at SeptemberA 30, 2024 and DecemberA 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 TranslationTotalBalance at December 31, 2023\$(0.4)\$(23.4)\$(62.0A)\$(93.8)\$(55.6)Other comprehensive income (loss) before reclassifications and income tax benefit (expense)0.6A (5.9)a€"A 54.8A 49.5A Amounts reclassified from accumulated other comprehensive income (loss)a€"A 0.1A (2.7)a€"A (2.6)Income tax benefit (expense)(0.2)1.5A 0.7A (4.2)(2.2)Net current period other comprehensive income (loss) 0.4A (4.3) (2.0)50.6A 44.7A Balance at September 30, 2024a€"A \$(27.7)\$60.0A \$(43.2)\$(10.9)(in millions)Investment SecuritiesDefined Benefit PlansDerivative InvestmentsForeign Currency TranslationTotalBalance at December 31, 2022\$(0.9)\$(22.8)\$(64.7A)\$(174.3)\$(133.3)Other comprehensive income (loss) before reclassifications and income tax benefit (expense)(0.1) (3.5)a€"A 20.7A 17.1A Amounts reclassified from accumulated other comprehensive income (loss)a€"A 0.1A (2.7)a€"A (2.6)Income tax benefit (expense)a€"A 0.8A 0.7A a€"A 1.5A Net current period other comprehensive income (loss) (0.1)(2.6)(2.0)20.7A 16.0A Balance at September 30, 2023\$(1.0)\$(25.4)\$62.7A \$(153.6)\$(117.3) 10. Fair Value MeasurementsThe company uses a three-level classification hierarchy of fair value measurements for disclosure purposes: a€"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. a€"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. a€"Level 3 inputs consist of unobservable inputs which are derived and cannot be corroborated by market data or other entity-specific inputs. The companya€"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 companya€"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 companya€"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 SeptemberA 30, 2024 were classified in their entirety based on the lowest level of input that was significant to each asset and liabilitya€"s fair value measurement. The following table presents financial instruments measured at fair value on a recurring basis:A September 30, 2024 (in millions)Level1 1Level2 2Level3 3TotalAssets at Fair Value:Marketable securities:Corporate debt securities\$9.4A \$a€"A \$a€"A \$9.4A Mutual funds102.7A a€"A a€"A 102.7A Equity securities0.2A a€"A a€"A 0.2A Total Marketable Securities112.3A a€"A a€"A 112.3A Total Assets at Fair Value\$112.3A \$a€"A \$a€"A \$112.3A 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 \$8.6A million at SeptemberA 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 SeptemberA 30, 2024, the fair values were as follows:(in millions)FairA ValueLevel\$750.0 million fixed rate notes due March 2025\$744.1A Level 2\$500.0 million fixed rate notes due June 2028\$498.2A Level 2\$750.0 million fixed rate notes due March 2032\$679.0A Level 2\$750.0 million fixed rate notes due September 2043\$808.1A Level 2\$700.0 million fixed rate notes due June 2048\$631.2A 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 awards333A 333A 334A 373A Total333A 333A 334A 373A The following table presents the earnings per share calculation for the periods presented:A Quarter Ended September 30,Nine Months Ended September 30, 2024202320242023Net Income (in millions)\$912.8A \$750.2A \$2,651.2A \$2,411.6A 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\$901.3A \$740.8A \$2,617.8A \$2,381.3A Weighted Average Number of Common Shares (in thousands):Basic359,400A 359,020A 359,329A 358,965A Effect of stock options, restricted stock and performance shares589A 599A 570A 483A Diluted359,989A 359,619A 359,899A 359,448A Earnings per Common Share Attributable to Common Shareholders of CME Group:Basic\$2.51A \$2.06A \$7.29A \$6.63A Diluted\$2.50A 2.06A 7.27A 6.62A 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 ContentsITEMA 2.MANAGEMENTa€"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 a€"wea€" and a€"oursa€" are to CME Group Inc. (CME Group) and its consolidated subsidiaries, collectively. References to a€"exchangea€" 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.A Quarter Ended September 30,A Nine Months Ended September 30, A (dollars in millions, except per share data)20242023Change20242023ChangeTotal revenues\$1,584.4A \$1,337.8A 18A %\$4,604.8A \$4,139.6A 11A %Total expenses\$60.2A \$517.6A 8A %1,620.4A \$1,567.1A 3A %Operating margin64.6A %61.3A %64.8A %62.1A %Non-operating income (expense)\$152.7A \$154.1A (1)\$460.4A \$575.1A (20)Effective tax rate22.4A %23.0A %23.0A %23.4A %Net income \$912.8A \$750.2A 22A %\$2,651.2A \$2,411.6A 10A %Diluted earnings per common share\$2.50A 2.06A 21A 7.27A 6.62A 10A Cash flows from operating activities2,672.6A 2,409.5A 11A RevenuesA Quarter Ended September 30,Nine Months Ended September 30, A (dollars in millions)20242023Change20242023ChangeClearing and transaction fees\$1,297.1A \$1,085.5A 20A %\$3,755.9A \$3,404.0A 10A %Market data and information services178.2A 167.6A 6A 528.6A 496.5A 6A Other109.1A 84.7A 29A 320.3A 239.1A 34A Total Revenues\$1,584.4A \$1,337.8A 18A %\$4,604.8A \$4,139.6A 11A 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, A 20242023Change20242023ChangeTotal contract volume (in millions)1,810.5A 1,408.2A 29A %5,052.8A 4,492.0A 12A %Clearing and transaction fees (in millions)\$1,205.3A \$994.8A 21A %\$3,479.3A \$3,125.6A 11A Average rate per contract\$0.666A \$0.707A (6)\$0.689A \$0.696A (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.A (in millions)Quarter EndedNine Months EndedIncreases due to a changes in total contract volume\$267.9A \$386.8A Decreases due to a changes in average rate per contract(57.4)(33.1)Net increases in clearing and transaction fees\$210.5A \$353.7A 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.A Quarter Ended September 30,Nine Months Ended September 30, (amounts in

[illegible]

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:

AA	Short-Term	Long-Term
Rating Agency	Debt Rating	Debt Rating
Standard & Poor	A1	AA
Moody	Aa3	Aa3

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.

3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISKWe 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 7A. of CME Group's 2023 Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on February 28, 2024, for additional information.

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 Contentsour 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 INFORMATIONITEM 1. LEGAL PROCEEDINGSThe disclosure under "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 2023 Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on February 28, 2024.

1. RISK FACTORSThere have been no material changes in the company's risk factors from those disclosed in the company's 2023 Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on February 28, 2024.

2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDSIssuer Purchases of Equity SecuritiesPeriod(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 Be Purchased Under the Plans or Programs(in millions)July 1 to July 312024\$195.50A\$1.08August 1 to August 312024\$208.41A\$1.08September 1 to September 302024\$216.99A\$1.08October 1 to October 312024\$216.99A\$1.08November 1 to November 302024\$216.99A\$1.08December 1 to December 312024\$216.99A\$1.08Total\$1,406.40A\$1.08(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 employee's tax obligations upon the vesting of restricted stock.

3. Table of ContentsITEM 6. EXHIBITS31.1A Section 302 CertificationTerrence A. Duffy31.2A Section 302 CertificationLynne Fitzpatrick32.1A Section 906 Certification101A The following materials from CME Group Inc.'s Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2024, formatted in Inline XBRL (Xtensible 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.104A Cover Page Interactive Data File included in the Inline XBRL Document Set for Exhibit 101.101.DEFA XBRL Taxonomy Extension Definition Linkbase101.LABA XBRL Taxonomy Extension Label Linkbase Document101.PREA XBRL Taxonomy Extension Presentation Linkbase Document33Table of ContentsSIGNATURESPursuant 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. CME Group Inc. (Registrant)Dated: November 8, 2024By: /s/ Lynne FitzpatrickA. Lynne FitzpatrickSenior Managing Director and Chief Financial OfficerPrincipal Financial Officer andDuly Authorized Officer34DocumentExhibit 31.1 CERTIFICATIONI, Terrence A. Duffy, certify that: A. I have reviewed this report on Form 10-Q of CME Group Inc.; 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. 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. 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) 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. 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. 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. 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. 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) 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. 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. DuffyName: Terrence A. DuffyTitle: Chief Executive OfficerDocumentExhibit 31.2 CERTIFICATIONI, Lynne Fitzpatrick, certify that: A. I have reviewed this report on Form 10-Q of CME Group Inc.; 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. 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. 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) 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. 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. 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. 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. 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) 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. 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 FitzpatrickName: Lynne FitzpatrickTitle: Chief Financial OfficerDocumentExhibit 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 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. 1350, as adopted pursuant to 906 of the Sarbanes-Oxley Act of 2002, that, to the best of his knowledge: 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. (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. DuffyName: Terrence A. DuffyTitle: Chief Executive OfficerDated: November 8, 2024 /s/ Lynne FitzpatrickName: Lynne FitzpatrickTitle: Chief Financial OfficerDated: November 8, 2024 A. A This certification accompanies the Report pursuant to 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 18 of the Securities Exchange Act of 1934, as amended. A. A signed original of this written statement required by 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 or its staff upon request.