

National Securities Clearing Corporation

Financial Statements as of and for the Years Ended
December 31, 2022 and 2021, and Report of Independent
Registered Public Accounting Firm

NATIONAL SECURITIES CLEARING CORPORATION

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Shareholder of the
National Securities Clearing Corporation

Opinion on the Financial Statements

We have audited the accompanying statements of financial condition of the National Securities Clearing Corporation (the "Company") as of December 31, 2022 and 2021, the related statements of income, changes in shareholder's equity, and cash flows, and the related footnotes for each of the two years in the period ended December 31, 2022 (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2022 and 2021, and the results of its operations and its cash flows for each of the two years in the period ended December 31, 2022, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB and in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matters

Critical audit matters are matters arising from the current-period audit of the financial statements that were communicated or required to be communicated to the audit committee and that (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. We determined that there are no critical audit matters.



New York City, New York
February 27, 2023

We have served as the Company's auditor since 2009.

NATIONAL SECURITIES CLEARING CORPORATION

STATEMENTS OF FINANCIAL CONDITION

(In thousands, except share data)	As of December 31,	
	2022	2021
ASSETS		
CURRENT ASSETS:		
Cash and cash equivalents	\$ 13,832,897	\$ 12,257,502
Participants' segregated cash	2,020	6,078
Short-term investments	750,000	445,000
Accounts receivable - net of allowance for credit losses	25,261	58,661
Clearing Fund	12,002,310	14,753,453
Other Participants' assets	3,434	427
Other current assets	25,520	8,333
Total current assets	26,641,442	27,529,454
NON-CURRENT ASSETS:		
Premises and equipment - net of accumulated depreciation	2,870	2,967
Intangible assets - net of accumulated amortization	54,501	52,920
Total non-current assets	57,371	55,887
TOTAL ASSETS	\$ 26,698,813	\$ 27,585,341
LIABILITIES AND SHAREHOLDER'S EQUITY		
CURRENT LIABILITIES:		
Commercial paper - net of unamortized discount	\$ 9,109,638	\$ 8,291,933
Long-term debt, current portion	1,997,307	—
Accounts payable and accrued expenses	181,561	214,006
Clearing Fund	12,002,310	14,753,453
Payable to Participants	5,454	6,505
Other current liabilities	7,131	2,573
Total current liabilities	23,303,401	23,268,470
OTHER NON-CURRENT LIABILITIES:		
Long-term debt	2,736,286	3,731,814
Other non-current liabilities	13,710	14,728
Total non-current liabilities	2,749,996	3,746,542
Total liabilities	26,053,397	27,015,012
COMMITMENTS AND CONTINGENCIES (Note 2)		
SHAREHOLDER'S EQUITY		
Common stock, \$0.50 par value - 30,000 shares authorized; 20,000 shares issued and outstanding	10	10
Additional paid-in capital	69,442	69,442
Retained earnings	575,964	500,877
Total shareholder's equity	645,416	570,329
TOTAL LIABILITIES AND SHAREHOLDER'S EQUITY	\$ 26,698,813	\$ 27,585,341

The Notes to Financial Statements are an integral part of these statements.

NATIONAL SECURITIES CLEARING CORPORATION

STATEMENTS OF INCOME

(In thousands)	For the years ended December 31	
	2022	2021
REVENUES		
Clearing services	\$ 540,244	\$ 453,113
Wealth management services	120,932	111,213
Other services	8,626	7,613
Total revenues	669,802	571,939
EXPENSES		
Employee compensation and related benefits	195,773	175,943
Information technology	63,307	60,648
Professional and other services	132,758	122,784
Occupancy	15,945	10,664
Depreciation and amortization	20,109	15,219
General and administrative	28,607	24,098
Impairment of intangible assets	1,041	—
Total expenses	457,540	409,356
Total operating income	212,262	162,583
NON-OPERATING INCOME (EXPENSE)		
Interest income	479,858	33,040
Refunds to Participants	(232,944)	(15,257)
Interest expense	(215,160)	(58,331)
Other non-operating income, net	6,070	6,163
Total non-operating income (expense)	37,824	(34,385)
Income before taxes	250,086	128,198
Provision for income taxes	74,999	33,680
Net income	\$ 175,087	\$ 94,518

The Notes to Financial Statements are an integral part of these statements.

NATIONAL SECURITIES CLEARING CORPORATION

STATEMENTS OF CHANGES IN SHAREHOLDER'S EQUITY

(In thousands)	Common Stock	Additional Paid-In Capital	Retained Earnings	Total Shareholder's Equity
BALANCE - January 1, 2021	\$ 10	\$ 69,442	\$ 606,359	\$ 675,811
Common stock dividend	—	—	(200,000)	(200,000)
Net income	—	—	94,518	94,518
BALANCE - December 31, 2021	\$ 10	\$ 69,442	\$ 500,877	\$ 570,329
Common stock dividend	—	—	(100,000)	(100,000)
Net Income	—	—	175,087	175,087
BALANCE - December 31, 2022	<u>\$ 10</u>	<u>\$ 69,442</u>	<u>\$ 575,964</u>	<u>\$ 645,416</u>

The Notes to Financial Statements are an integral part of these statements.

NATIONAL SECURITIES CLEARING CORPORATION
STATEMENTS OF CASH FLOWS

(In thousands)	For the years ended December 31	
	2022	2021
CASH FLOWS FROM OPERATING ACTIVITIES:		
Net income	\$ 175,087	\$ 94,518
Adjustments to reconcile net income to net cash provided by/(used in) operating activities:		
Depreciation and amortization	20,109	15,219
Impairment of intangible assets	1,041	—
Deferred income taxes	(3,210)	549
Accretion of discount on Commercial paper, net of associated interest paid	49,641	(2,393)
Accretion of discount and amortization of debt issuance costs	7,653	7,872
Other	25	(4,322)
Net change in:		
Accounts receivable	33,375	(12,128)
Other assets	(17,187)	7,787
Accounts payable and accrued expenses	37,555	25,066
Other liabilities	8,193	(19,114)
Clearing Fund liabilities	(2,739,903)	2,095,936
Payable to Participants	(1,051)	5,930
Cash (used in)/provided by operating activities	<u>(2,428,672)</u>	<u>2,214,920</u>
CASH FLOWS FROM INVESTING ACTIVITIES:		
Purchases of Short-term investments	(1,645,000)	(1,645,000)
Maturities of Short-term investments	1,340,000	2,000,000
Capitalized software development costs	(22,634)	(20,882)
Net cash (used in)/provided by investing activities	<u>(327,634)</u>	<u>334,118</u>
CASH FLOWS FROM FINANCING ACTIVITIES:		
Proceeds from Commercial paper	64,675,937	51,136,107
Repayments of Commercial paper	(63,907,873)	(46,685,071)
Proceeds from issuance of debt, net of debt issuance costs	992,683	—
Dividend on common stock	(170,000)	(30,000)
Net cash provided by financing activities	<u>1,590,747</u>	<u>4,421,036</u>
Net (decrease)/increase in Cash and cash equivalents, Participants' segregated cash, Clearing Fund cash deposits, Cash in Other Participants' assets	(1,165,559)	6,970,074
Cash and cash equivalents, Participants' segregated cash, Clearing Fund cash deposits, Cash in Other Participants' assets - Beginning of year	<u>26,205,686</u>	<u>19,235,612</u>
Cash and cash equivalents, Participants' segregated cash, Clearing Fund cash deposits, Cash in Other Participants' assets - End of year	<u>\$ 25,040,127</u>	<u>\$ 26,205,686</u>
SUPPLEMENTAL DISCLOSURES:		
Interest paid	<u>\$ 151,582</u>	<u>\$ 53,664</u>
Income taxes paid - net of refunds	<u>\$ 71,400</u>	<u>\$ 56,638</u>

The Notes to Financial Statements are an integral part of these statements.

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

1. BUSINESS AND OWNERSHIP

National Securities Clearing Corporation (NSCC or the Company) is organized as a business corporation under New York law, and is a clearing agency registered with the U.S. Securities and Exchange Commission (SEC). NSCC provides central counterparty (CCP) services, including clearing, settlement and risk management services to its members (referred to herein as its Participants) for trades involving equities, corporate and municipal debt, exchange-traded funds, and unit investment trusts.

NSCC is a wholly-owned subsidiary of The Depository Trust & Clearing Corporation (DTCC). Other subsidiaries of DTCC include The Depository Trust Company (DTC), Fixed Income Clearing Corporation (FICC), DTCC ITP LLC, DTCC Deriv/SERV LLC and DTCC Solutions LLC.

NSCC is designated as a Systemically Important Financial Market Utility (SIFMU) by the U.S. Financial Stability Oversight Council pursuant to Title VIII of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010, which subjects the Company to enhanced standards for risk management, operation and governance, as established by the SEC's Standards for Covered Clearing Agencies (CCAS).

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of presentation. The accompanying financial statements are prepared in accordance with generally accepted accounting principles in the United States of America (U.S. GAAP).

Use of estimates. The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements. Management makes estimates regarding, among other things, the collectability of receivables, the outcome of litigation, the realization of deferred taxes, unrecognized tax benefits, impairment of intangible assets, fair value measurements, expense allocations and other matters that affect the reported amounts. Estimates are based on judgment and available information; therefore, actual results could differ materially from those estimates.

Cash and cash equivalents. All highly liquid investments purchased with an original maturity of three months or less at the date of acquisition are classified as Cash and cash equivalents. Cash equivalents consist primarily of highly liquid investments in deposits held in banks.

Participants' segregated cash. Represents cash received from Participants for the exclusive benefit of the Participants' customers in compliance with SEC rule 15c3-3 (customer protection), which requires broker-dealers to segregate a certain amount of cash and securities in specially protected accounts on behalf of their clients.

Short-term investments. Consists of cash invested in bank deposits with original maturities greater than three months and less than one year with various yields carried at amortized cost, which approximates fair value due to their short-term maturities.

Fair value measurements. The Company may be required or permitted to measure and disclose certain financial assets and liabilities using fair value measurements. Fair value is defined as the price that would be received to sell an asset, or paid to transfer a liability, in an orderly transaction between market participants at the measurement date. The Company uses a three-level classification hierarchy of fair value measurements that establishes the quality of inputs used to measure fair value. The fair value of financial instruments is determined using various techniques that involve some level of estimation and judgment, the degree of which is dependent on the price transparency and the complexity of the instruments.

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Accounts receivable. Accounts receivable are stated at cost, net of an allowance for credit losses and refunds to Participants. The Company establishes an allowance for estimated losses resulting from uncollectibility. Expected credit losses for newly recognized financial assets and changes to expected credit losses during the period are recognized in General and administrative expenses in the accompanying Statements of Income. The Company determines the adequacy of the allowance by estimating the possibility of loss based on a variety of factors, including the length of time receivables are past due, forward looking macroeconomic projections, historical experience and the financial condition of customers and other debtors.

Clearing Fund. The rules of NSCC require Participants to maintain deposits related to their respective activities based on calculated requirements. The deposits are available to NSCC to secure Participants' obligations and certain liabilities of the Company. Margin deposits and any additional Participant contributions are maintained within the Clearing Fund on the accompanying Statements of Financial Condition due to the benefits and risks of ownership incurred by the Company. Deposits and contributions may be in the form of cash, cash equivalents and securities. These deposits may be applied to satisfy obligations of the depositing Participant, other Participants, or the Company pursuant to NSCC's rules.

Cash deposits. Deposits and contributions received in the form of cash may be invested in bank deposits and direct obligations of the U.S. Government, pursuant to an investment policy maintained by the Company. All interest earned on investments is accrued and included within Interest income in the accompanying Statements of Income. This interest is refunded to Participants and is included in Refunds to Participants in the accompanying Statements of Income.

Securities on deposit. Securities deposited to the Clearing Fund may include U.S. Treasury securities, U.S. agency debt securities and U.S. agency residential mortgage-backed securities, pursuant to NSCC's rules.

Premises and equipment. Premises and equipment are stated at cost, net of accumulated depreciation. Routine maintenance, repairs and replacement costs are expensed as incurred, while improvements that extend the useful life of the assets are capitalized. When equipment is sold or otherwise disposed of, the cost and related accumulated depreciation are removed from the accounts and any resulting gain or loss is recognized in the accompanying Statements of Income. Premises and equipment are reviewed for impairment whenever events or changes in circumstances indicate the related carrying amount may not be recoverable. The following table summarizes how the Company depreciates Premises and equipment:

Premises and equipment	Depreciation Period	Depreciation Method
Building and improvements	39 years	Straight-line

Depreciation expense for buildings and improvements is included in Depreciation and amortization in the accompanying Statements of Income.

Intangible assets. Intangible assets represent capitalized software. The Company capitalizes eligible costs associated with the acquisition or development of internal-use software projects that provide new or significantly improved functionality. The Company capitalizes software costs expected to result in long-term operational benefits, such as replacement systems or new applications that result in significantly increased operational efficiencies or functionality. All other costs incurred in connection with an internal-use software project are expensed as incurred.

Intangible assets are reviewed for impairment whenever events or changes in circumstances indicate the related carrying amount may not be recoverable. Intangible assets are amortized over estimated useful life of three years using the straight-line method.

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Commercial paper. NSCC issues commercial paper with maturities generally less than one year. The proceeds from the issuance of the commercial paper constitute liquid resources of NSCC that, together with other liquid resources of the Company, are available to enable NSCC to effect the settlement of its payment obligations in the event of the default of any of its Participants pursuant to NSCC's rules. Pending such use by NSCC, the proceeds of the issuance of commercial paper are invested in highly liquid short-term instruments in accordance with NSCC's investment policy.

Debt issuance costs. Debt issuance costs consist of costs incurred in obtaining financing and are amortized over the term of the financing using the straight-line method. These costs are generally recorded as a direct deduction from the carrying amount of the related debt liability on the Statements of Financial Condition.

Derivatives and hedging. The Company uses derivatives for hedging purposes to manage its exposure to changes in interest rates. The Company uses interest rate swaps to mitigate the interest rate risk associated with fixed-rate long-term debt obligations by converting a portion of its interest expense exposure from fixed rate to a floating rate to more closely align with interest income received on its cash equivalents. The Company does not use derivatives for trading purposes. The Company formally documents all relationships between the hedging instruments and hedged items, as well as the Company's risk-management objectives and strategy for undertaking various hedging transactions. Hedge accounting is applied when a derivative is highly effective at reducing the risk associated with the hedged exposure and the risk management objective and strategy are documented. Hedge documentation identifies the derivative hedging instrument, the asset or liability and type of risk hedged, and how the effectiveness of the derivative is assessed prospectively and retrospectively. See Note 8, Long-term debt, for the Company's fixed-rate senior note being hedged through an interest rate swap.

Commitments and contingencies. The Company is involved in legal proceedings and litigation arising in the ordinary course of business. In the opinion of management, the outcome of such proceedings and litigation is not expected to have a material effect on the accompanying Statements of Financial Condition, Income or Cash Flows.

Revenue recognition. The Company recognizes revenue to depict the transfer of promised services and related performance obligations to customers in an amount that reflects the consideration to which the entity expects to be entitled, upon satisfaction, in exchange for those services.

The Company derives its revenue from transaction fees, subscription revenue, and usage fees. Revenue from transaction fees is billed monthly and calculated based on the number of executed transactions and the established fee schedules, less any applicable volume discounts. The volume targets or thresholds for the discounts reset monthly. Subscription revenues are recognized ratably over the performance period of the relevant contract using a time elapsed measure of progress as the customer receives the benefits of the services throughout the term of the contract. Usage fees are recognized when services are provided based on contractual terms.

Details for each revenue stream presented in the Company's Statements of Income follow:

Clearing services. Revenue derived from this revenue stream are in the form of transaction fees that are based on either the volume or value of trading activity. Services include the continuous net settlement of equity and corporate bonds, mortgage backed securities clearing, and government securities clearing.

Wealth management services. Revenue derived from this revenue stream are in the form of transaction fees. Services include centralized, automated processing and information services for mutual fund, alternative investment, and insurance and retirement products.

Other services. Revenue derived from this revenue stream may be in the form of subscription revenue and usage fees, which include referential and activity-based announcement, security reference, and liquidity data through the DTCC Data Services product. These offerings are delivered in fixed or configurable formats, sourced from the Company's transaction, reference, position and asset servicing data.

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Rebates. On September 22, 2021, the Company's Board of Directors authorized a rebate to NSCC Participants for \$75 million. The amount of the rebate was determined based on specific metrics at the legal entity level. The Board of Directors did not authorize any rebate for the year ended December 31, 2022. The rebate presented net in Clearing services revenue in the accompanying Statements of Income was \$0 million and \$75 million for the years ended December 31, 2022 and 2021, respectively.

Accounts receivable and deferred revenue. The period in which the Company recognizes revenue may differ from the timing of payments received from customers. The Company typically bills its customers up to 30 days in arrears. The Company records a receivable when revenue is recognized prior to payment and there is an unconditional right to payment. Deferred revenue represents the Company's liability to perform services in the future related to payments received in advance of those services. Deferred revenue as of December 31, 2022 and 2021 was \$0 and \$60,000, respectively, and is included in Other current liabilities on the accompanying Statements of Financial Condition. Of the \$60,000 as of December 31, 2021, \$60,000 was recognized as revenue during the year ended December 31, 2022.

Expense allocations. Substantially all expenses are recorded at DTCC and are allocated to its subsidiaries, including NSCC, based upon their estimated use of such goods or services as determined by various allocation factors including level of support provided and utilization of technology resources. Accordingly, the expenses in the accompanying Statements of Income represent allocated costs including Employee compensation and related benefits, Information technology, Professional and other services, Occupancy and General and administrative.

Income taxes. The Provision for income taxes is computed using the asset and liability method. The tax currently payable is based on taxable income for the year. Taxable income differs from Income before taxes as reported in the accompanying Statement of Income because it excludes items of income or expense that are taxable or deductible in other years and it further excludes items that are never taxable or deductible. The Company records a deferred income tax (benefit) provision when there are differences between assets and liabilities measured for financial reporting and for income tax return purposes. These temporary differences result in taxable (deferred tax liability) or deductible (deferred tax asset) amounts in future years and are measured using the tax rates and laws that will be in effect when such differences are expected to reverse. Valuation allowances are recognized if, based on the weight of available evidence, it is more likely than not that some portion of the deferred tax asset will not be realized. Deferred tax assets and liabilities are reported net by jurisdiction in non-current assets or liabilities on the accompanying Statements of Financial Condition. The Company provides for uncertain tax positions and the related interest and penalties based upon management's assessment of whether a tax benefit is more likely than not to be sustained upon examination by the tax authorities.

Reconciliation of Cash and cash equivalents and other limited use cash. When reconciling the beginning and ending total amounts shown in the Statements of Cash Flows, the Company includes all cash on the Statements of Financial Condition, regardless of which line it is included. The Statement of Cash Flows includes Cash and cash equivalents and cash balances that are not available for general corporate purposes due to certain limitations, including - Participants' segregated cash, Clearing Fund cash deposits and Cash in Other Participants' assets.

A reconciliation of Cash and cash equivalents, Participants' segregated cash, Clearing Fund cash deposits, and Cash in Other Participants' assets, reported within the Statements of Financial Condition that sum to the total of the same such amounts shown on the accompanying Statements of Cash Flows as of December 31, 2022 and 2021 follow (in thousands):

	2022	2021
Cash and cash equivalents	\$ 13,832,897	\$ 12,257,502
Participants' segregated cash	2,020	6,078
Clearing Fund cash deposits (see Note 4)	11,201,776	13,941,679
Cash in Other Participants' assets	3,434	427
Total Cash and cash equivalents, Participants' segregated cash, Clearing Fund cash deposits and Cash in Other Participants' assets shown on the Statements of Cash Flows	<u>\$ 25,040,127</u>	<u>\$ 26,205,686</u>

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Common stock dividend. On February 10, 2021, the Board of Directors approved a dividend in the amount of \$30 million from NSCC to DTCC, which was paid in April 2021. On December 15, 2021, the Board of Directors approved a dividend in the amount of \$170 million from NSCC to DTCC, which was paid in January 24, 2022. On December 14, 2022, the Board of Directors approved a dividend in the amount of \$100 million from NSCC to DTCC. The dividend is included in Accounts payable and accrued expense on the accompanying Statement of Financial Condition, and will be paid in March 2023.

Global Events and Crises. Global pandemics, sanctions, war, or natural disasters may have an adverse impact on market, economic and geopolitical conditions and trigger a period of global economic slowdown. Such a slowdown may have a material impact on the Company's financial results including changes in revenue, interest rates, liquidity/credit, and government and regulatory policy.

3. ACCOUNTING AND REPORTING DEVELOPMENTS

Standard	Description	Impact on the financial statements or other significant matters
<i>Recently Adopted Accounting Standards</i>		
ASU 2021-08 - Business Combinations (Topic 805): Accounting for Contract Assets and Contract Liabilities from Contracts with Customers <i>Issued October 2021</i>	<ul style="list-style-type: none"> Requires contract assets and contract liabilities (i.e. deferred revenue) acquired in a business combination to be recognized and measured by the acquirer on the acquisition date in accordance with ASC 606, Revenue from Contracts with Customers, which results in the acquirer recognizing contract assets and contract liabilities at the same amounts recorded by the acquiree. 	<ul style="list-style-type: none"> Adopted December 31, 2022. The adoption of the standard did not have an impact on the Company's financial statements and related disclosures.
ASU 2019-12 Income Taxes (Topic 740): Simplifying the Accounting for Income Taxes <i>Issued December 2019</i>	<ul style="list-style-type: none"> Clarifies and simplifies aspects of accounting for income taxes. Eliminates certain exceptions related to the approach for intraperiod tax allocation, the methodology for calculating income taxes in an interim period and the recognition of deferred tax liabilities for basis differences between book and tax. 	<ul style="list-style-type: none"> Adopted December 31, 2022. The adoption of the standard did not have a material impact on the Company's financial statements and related disclosures.

4. CLEARING FUND

Details for the Clearing Fund deposits as of December 31, 2022 and 2021 follow (in thousands):

	2022	2021
Total deposits	\$ 12,002,310	\$ 14,753,453
Less: Required deposits	10,817,731	8,343,253
Excess deposits	<u>\$ 1,184,579</u>	<u>\$ 6,410,200</u>

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

4. CLEARING FUND (CONTINUED)

Cash and Securities. Details for cash and securities of the Clearing Fund, which may be applied to satisfy obligations of the depositing Participant, other Participants, or the Company pursuant to NSCC's rules, as of December 31, 2022 and 2021 follow (in thousands):

	2022	2021
Cash and cash equivalents	\$ 11,201,776	\$ 13,941,679
U.S. Treasury Securities	800,534	811,774
Total	<u>\$ 12,002,310</u>	<u>\$ 14,753,453</u>

Details for the Clearing Fund cash deposits as of December 31, 2022 and 2021 follow (in thousands):

	2022	2021
Bank deposits	\$ 11,201,776	\$ 12,197,679
Money market fund investments - at fair value	—	1,744,000
Total	<u>\$ 11,201,776</u>	<u>\$ 13,941,679</u>

5. PREMISES AND EQUIPMENT

The cost, accumulated depreciation and net book value of Premises and equipment as of December 31, 2022 and 2021 follow (in thousands):

	2022	2021
Buildings and improvements	\$ 3,786	\$ 3,786
Land	840	840
Total Premises and equipment	4,626	4,626
Less: Accumulated depreciation	(1,756)	(1,659)
Net book value	<u>\$ 2,870</u>	<u>\$ 2,967</u>

Depreciation expense for premises and equipment for the years ended December 31, 2022 and 2021 was \$98,000 and \$98,000, respectively, and is included in Depreciation and amortization in the accompanying Statements of Income.

6. INTANGIBLE ASSETS

The gross carrying value, accumulated amortization and net book value of capitalized software as of December 31, 2022 and 2021 follow (in thousands):

	2022	2021
Gross carrying value capitalized software	\$ 115,313	\$ 99,856
Less: Accumulated amortization	(60,812)	(46,936)
Capitalized software, net	<u>\$ 54,501</u>	<u>\$ 52,920</u>

Amortization expense for capitalized software for the years ended December 31, 2022 and 2021 was \$20,011,000 and \$15,121,000, respectively, and is included in Depreciation and amortization in the accompanying Statements of Income.

NATIONAL SECURITIES CLEARING CORPORATION
NOTES TO FINANCIAL STATEMENTS
AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

6. INTANGIBLE ASSETS (CONTINUED)

Details for estimated amortization expense for each of the next five years and thereafter follow (in thousands):

2023	\$	23,959
2024		18,127
2025		10,490
2026		1,925
2027		—
Thereafter		—
Total future estimated amortization	\$	<u>54,501</u>

During the years ended December 31, 2022 and 2021, disposals of fully amortized capitalized software resulted in the removal of cost and accumulated amortization of \$6,090,000 and \$49,085,000 respectively.

The Company recognized impairment charges of \$1,041,000 and \$0 related to capitalized software for the years ended December 31, 2022 and 2021 respectively. The impairment charges are included in Impairment of intangible assets in the accompanying Statements of Income.

During the year ended December 31, 2022 the Company recognized impairments of internally developed software related to the Common Matching project due to a change in strategy which resulted in a reprioritization of efforts triggering an evaluation for impairment. The evaluation concluded that the \$1,041,000 carrying value of its internally developed software was not recoverable and exceeded its fair value.

7. COMMERCIAL PAPER

Details for Commercial paper as of December 31, 2022 and 2021 follow (in thousands):

	2022	2021
Commercial paper - net of unamortized discount of \$27,750 and \$1,067 as of December 31, 2022 and 2021, respectively	\$ 9,109,638	\$ 8,291,933
Weighted-average interest rate	4.11 %	0.13 %

Interest expense on Commercial paper, included in Interest expense in the accompanying Statements of Income, was \$158,761,000 and \$9,179,000 for the years ended December 31, 2022 and 2021, respectively.

8. LONG-TERM DEBT

Details for Long-term debt as of December 31, 2022 and 2021 follow (in thousands):

	2022	2021
Senior notes - net of unamortized discount and debt issuance costs	\$ 4,733,593	\$ 3,731,814
Less: Current portion of long-term debt	(1,997,307)	—
Non-current portion of long-term debt	<u>\$ 2,736,286</u>	<u>\$ 3,731,814</u>

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

8. LONG-TERM DEBT (CONTINUED)

Details for principal payments due on Long-term debt for each of the next five years and thereafter follow (in thousands):

2023	\$ 2,000,000
2024	400,000
2025	1,750,000
2026	—
2027	600,000
Thereafter	—
	<u>\$ 4,750,000</u>

The proceeds from the issuances constitute liquid resources that, together with other liquid resources of the Company, are available to enable NSCC to affect the settlement of its payment obligations in the event of the default of any of its Participants pursuant to NSCC's rules.

Details of the senior notes as of December 31, 2022 follow (in thousands):

Issue Date	Maturity	Rate	Principal Balance	Carrying Value
April 23, 2020	April 23, 2023	1.20% ⁽¹⁾	\$ 1,000,000	\$ 999,331
April 23, 2020	April 23, 2025	1.50% ⁽¹⁾	1,000,000	996,109
December 7, 2020	December 7, 2023	0.40% ⁽²⁾	1,000,000	997,982
December 7, 2020	December 7, 2025	0.75% ⁽²⁾	750,000	745,800
November 21, 2022	November 21, 2024	5.05% ⁽³⁾	400,000	397,482
November 21, 2022	November 21, 2027	5.10% ⁽³⁾	600,000	596,889
			<u>\$ 4,750,000</u>	<u>\$ 4,733,593</u>

(1) Interest is payable semi-annually in arrears on April 23 and October 23 of each year, beginning October 23, 2020.

(2) Interest is payable semi-annually in arrears on June 7 and December 7 of each year, beginning June 7, 2021.

(3) Interest is payable semi-annually in arrears on May 21 and November 21 of each year, beginning May 21, 2023.

Interest expense and amortization of discount and issuance costs, included in Interest expense in the accompanying Statements of Income, were \$49,933,000 and \$43,970,000 for the years ended December 31, 2022 and 2021, respectively. The weighted-average interest rate was 1.84% and 0.98% as of December 31, 2022 and 2021, respectively. The aggregate debt issuance costs and unamortized discount associated with the senior notes were \$17,850,000 and \$18,186,000, as of December 31, 2022 and 2021, respectively.

Fair value hedge. On November 21, 2022, the Company entered into an interest rate swap contract with a notional amount of \$600 million to receive a fixed-rate of 5.1% and pay floating-rate of USD-Federal Funds-OIS Compound plus 1.365%. The Company uses the interest rate swap to hedge the fair value of fixed-rate senior note of \$600 million, maturing November 21, 2027. The Company designated the interest rate swap as a fair value hedge of the related long-term debt and applied the short-cut method for hedge accounting purposes.

Details for the total fair value of derivative assets and liabilities as of December 31, 2022 and 2021 follow (in thousands):

	Other Current Assets		Accounts payable and accrued expenses	
	2022	2021	2022	2021
Derivatives designated as hedging instruments:				
Fair value hedges - Interest rate swap contract	\$ 1,443	\$ —	\$ —	\$ —

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

8. LONG-TERM DEBT (CONTINUED)

See Note 9, Fair Value Measurements, Financial assets and liabilities measured at fair value on a recurring basis, for the Company's fair value measurement of the interest rate swap. Interest rate swaps may expose the Company to credit-related losses in the event of nonperformance by its counterparty. Credit risk is monitored on an ongoing basis. See Note 15, Off Balance Sheet and Concentrations of Credit Risks, for the Company's concentration of credit risk related to interest rate swap.

Line of credit. The Company maintains a committed line of credit, pursuant to NSCC's rules, to support settlement of its payment obligations in the event any of its Participants default. Details for the terms of the outstanding line of credit as of December 31, 2022 and 2021 follow:

	2022	2021
Committed Amount	\$10.0 billion	\$9.3 billion
Number of Participants/Lenders	30/36	29/35
Borrowing Rate	The greatest of the Federal Reserve Bank of New York (FRBNY) rate, Adjusted Daily Secure Overnight Financing Rate (SOFR), or zero on the day of borrowing, plus 1.40%	The greatest of the FRBNY rate, Adjusted London Interbank Offered Rate (LIBOR), or zero, on the day of borrowing, plus 1.40%
Maturity Date	May 2023	May 2022
Annual Facility Fee	0.10% ⁽¹⁾	0.10% ⁽¹⁾

(1) The annual facility fee associated with maintaining the line of credit is included in Professional and other services in the accompanying Statements of Income.

There were no borrowings under the line of credit during 2022 and 2021.

Details for debt covenants related to the line of credit as of December 31, 2022 and 2021 follow:

	2022	2021
Minimum Net Worth	\$200 million	\$200 million
Minimum Clearing Fund deposits	\$1.5 billion	\$1.5 billion

As of December 31, 2022 and 2021, the Company was in compliance with its debt covenants.

Credit Ratings. The Company is rated by Moody's Investors Service, Inc. (Moody's) and S&P Global Inc. (S&P). Details for issuer credit ratings and ratings outlooks for the Company as of December 31, 2022 follow:

Moody's ⁽¹⁾			S&P		
Long-term	Short-term	Outlook	Long-term	Short-term	Outlook
Aaa	P-1	Stable	AA+	A-1+	Stable

(1) Moody's categorizes the long-term issuer ratings of the Company as a clearing counterparty rating (CCR) under the agency's Clearing Houses Rating Methodology.

9. FAIR VALUE MEASUREMENTS

Valuation hierarchy

U.S. GAAP provides for a three-level valuation hierarchy based on the transparency of inputs to the valuation of a financial asset or liability as of the measurement date. Details for the descriptions of the three levels follow:

- Level 1 — Inputs to the valuation methodology are unadjusted quoted market prices for identical assets or liabilities in active markets as of the valuation date.

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

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9. FAIR VALUE MEASUREMENTS (CONTINUED)

- Level 2 — Inputs to the valuation methodology are quoted market prices for similar assets and liabilities in active markets; quoted market prices for identical or similar assets or liabilities in markets that are not active; inputs other than quoted prices that are observable for the asset or liability; and inputs that are derived principally from or corroborated by observable market data by correlation or other means.
- Level 3 — Inputs to the valuation methodology are unobservable and reflect the Company's own assumptions about the estimates market participants would use pricing the asset or liability based on the best information available in the circumstances (e.g., internally derived assumptions surrounding timing and amount of expected cash flows).

A financial asset or liability's categorization within the valuation hierarchy is based on the lowest level of input that is significant to the fair value measurement.

Financial assets and liabilities measured at fair value on a recurring basis. For financial assets and liabilities measured at fair value on a recurring basis the Company applies the following valuation techniques to measure fair value:

Product/Instrument	Valuation Methodology	Classification in the valuation hierarchy
<u>Assets - Clearing Fund - Securities on deposit</u>		
U.S. Treasury Securities	Quoted market price of identical assets obtained from pricing services engaged by the Company.	Level 1
<u>Assets - Clearing Fund - Cash deposits</u>		
Money market fund investments	Quoted market price of identical assets obtained from pricing services engaged by the Company.	Level 1
<u>Assets - Other assets</u>		
Interest rate swap <i>Maturing November 21, 2027</i>	Quoted fair value obtained from discounted future cash flows using contractual terms like notional amount, coupon rates and observable market inputs and estimates	Level 2
<u>Liabilities - Clearing Fund - Securities on deposit and Cash deposits - Money market fund investments</u>		
Clearing Fund liabilities	Derived from the corresponding Clearing Fund assets (see above).	Level 1

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

9. FAIR VALUE MEASUREMENTS (CONTINUED)

Fair value measurements for those items measured on a recurring basis as of December 31, 2022 and 2021 are summarized below (in thousands):

	2022			
	Level 1	Level 2	Level 3	Total
Assets:				
Clearing Fund				
U.S. Treasury Securities	\$ 800,534	\$ —	\$ —	\$ 800,534
Interest rate swap (maturing November 21, 2027)	—	1,443	—	1,443
Total	<u>\$ 800,534</u>	<u>\$ 1,443</u>	<u>\$ —</u>	<u>\$ 801,977</u>
Liabilities:				
Clearing Fund				
Securities liabilities	\$ 800,534	\$ —	\$ —	\$ 800,534
Total	<u>\$ 800,534</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 800,534</u>

	2021			
	Level 1	Level 2	Level 3	Total
Assets - Clearing Fund				
U.S. Treasury Securities	\$ 811,774	\$ —	\$ —	\$ 811,774
Cash deposits - Money market fund investments	1,744,000	—	—	1,744,000
Total	<u>\$ 2,555,774</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 2,555,774</u>
Liabilities - Clearing Fund				
Securities liabilities	\$ 811,774	\$ —	\$ —	\$ 811,774
Money market fund investments liabilities	1,744,000	—	—	1,744,000
Total	<u>\$ 2,555,774</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 2,555,774</u>

There were no transfers between levels within the fair value hierarchy, nor were any amounts classified as Level 3 during the years ended December 31, 2022 and 2021.

Financial assets and liabilities measured at other than fair value.

Financial assets and liabilities whose carrying value approximates fair value. The carrying values of certain financial assets and liabilities approximate their fair values because they are short-term in duration, have no defined maturity, or have market-based interest rates. These instruments include Cash and cash equivalents, Participants' segregated cash, Short-term investments, Clearing Fund - Cash deposits - Bank deposits (and corresponding liabilities), Other Participants' assets, Commercial paper, Payable to Participants, and Long-term debt.

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

9. FAIR VALUE MEASUREMENTS (CONTINUED)

The carrying values, fair values and fair value hierarchy levels of all financial instruments measured at other than fair value on the accompanying Statements of Financial Condition as of December 31, 2022 and 2021 follow (in thousands):

	2022				
	Carrying Amount	Total Fair Value	Level 1	Level 2	Level 3
Assets:					
Cash and cash equivalents	\$13,832,897	\$13,832,897	\$13,832,897	\$ —	\$ —
Participants' segregated cash	2,020	2,020	2,020	—	—
Short-term investments	750,000	750,000	—	750,000	—
Clearing Fund:					
Cash deposits - Bank deposits	11,201,776	11,201,776	11,201,776	—	—
Other Participants' assets	3,434	3,434	3,434	—	—
Total	<u>\$25,790,127</u>	<u>\$25,790,127</u>	<u>\$25,040,127</u>	<u>\$ 750,000</u>	<u>\$ —</u>
Liabilities:					
Commercial paper	\$ 9,109,638	\$ 9,109,638	\$ —	\$ 9,109,638	\$ —
Clearing Fund - Cash deposits - Bank deposits	11,201,776	11,201,776	11,201,776	—	—
Payable to Participants	5,454	5,454	5,454	—	—
Long-term debt	4,733,593	4,570,058	—	4,570,058	—
Total	<u>\$25,050,461</u>	<u>\$24,886,926</u>	<u>\$11,207,230</u>	<u>\$13,679,696</u>	<u>\$ —</u>
	2021				
	Carrying Amount	Total Fair Value	Level 1	Level 2	Level 3
Assets:					
Cash and cash equivalents	\$ 12,257,502	\$ 12,257,502	\$ 12,257,502	\$ —	\$ —
Participants' segregated cash	6,078	6,078	6,078	—	—
Short-term investments	445,000	445,000	—	445,000	—
Clearing Fund:					
Cash deposits - Bank deposits	12,197,679	12,197,679	12,197,679	—	—
Other Participants' assets	427	427	427	—	—
Total	<u>\$ 24,906,686</u>	<u>\$ 24,906,686</u>	<u>\$ 24,461,686</u>	<u>\$ 445,000</u>	<u>\$ —</u>
Liabilities:					
Commercial paper	\$ 8,291,933	\$ 8,291,933	\$ —	\$ 8,291,933	\$ —
Clearing Fund - Cash deposits - Bank deposits and Reverse repurchase agreements	12,197,679	12,197,679	12,197,679	—	—
Payable to Participants	6,505	6,505	6,505	—	—
Long-term debt	3,731,814	3,744,935	—	3,744,935	—
Total	<u>\$ 24,227,931</u>	<u>\$ 24,241,052</u>	<u>\$ 12,204,184</u>	<u>\$ 12,036,868</u>	<u>\$ —</u>

Assets and liabilities measured at fair value on a non-recurring basis. There were no financial assets or liabilities measured at fair value on a non-recurring basis during the years ended December 31, 2022 and 2021.

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

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10. RETIREMENT PLANS

Defined contribution retirement plans. Eligible U.S. DTCC employees participate in one of two defined contribution plans, The Depository Trust & Clearing Corporation Employee Savings Plan (Employee Savings Plan) and The Depository Trust & Clearing Corporation Operations Level Employee Savings Plan (Operations Level Savings Plan). The Employee Savings Plan is a single employer plan covering non-bargaining unit employees. The Operations Level Savings Plan is a single employer plan covering bargaining unit employees.

Defined benefit pension and other postretirement benefit plans. Eligible DTCC employees participate in DTCC's non-contributory defined benefit pension and other postretirement plans, which provide for certain benefits upon retirement. DTCC's sponsored non-contributory plans include a defined benefit pension plan, supplemental executive retirement plan and benefit restoration plan. The other postretirement plans include retiree medical and life insurance plans for eligible retired employees and their beneficiaries.

Cost allocation. DTCC allocates the cost of these plans to its subsidiaries based primarily upon the estimated proportion of each subsidiary's salary cost relative to DTCC's total salary cost. The defined contribution retirement plans costs allocated to NSCC were expense of \$11,557,000 and \$10,583,000 for the years ended December 31, 2022 and 2021, respectively. The defined benefit pension and other postretirement benefit plans costs allocated to NSCC were expense of \$507,000 and income of \$234,000 for the years ended December 31, 2022 and 2021, respectively. The costs included in Employee compensation and related benefits, Interest expense, and Other non-operating income, net in the accompanying Statements of Income based on the nature of the pension expense component.

	2022	2021
Employee compensation and related benefits	\$ 12,077	\$ 11,379
Interest expense	6,056	5,132
Other non-operating income	(6,069)	(6,162)
Pension cost, net	<u>\$ 12,064</u>	<u>\$ 10,349</u>

11. INCOME TAXES

NSCC is included in DTCC's consolidated Federal and certain state tax returns. NSCC also files other state tax returns on a separate company basis.

Details for the components of the Company's Provision for income taxes calculated on a separate company basis for the years ended December 31, 2022 and 2021 follow (in thousands):

	2022	2021
Current income tax:		
Federal	\$ 49,044	\$ 24,806
State and local	29,165	8,325
Total current income tax	<u>78,209</u>	<u>33,131</u>
Deferred income tax:		
Federal	(2,526)	301
State and local	(684)	248
Total deferred income tax	<u>(3,210)</u>	<u>549</u>
Provision for income taxes	<u>\$ 74,999</u>	<u>\$ 33,680</u>

Pursuant to a tax sharing agreement between DTCC and NSCC, the Company is liable for its allocable share of Federal, state and local tax liabilities that are paid by DTCC. The Company paid income taxes to DTCC, net of refunds, amounting to \$71,400,000 and \$56,638,000 for 2022 and 2021, respectively.

NATIONAL SECURITIES CLEARING CORPORATION

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11. INCOME TAXES (CONTINUED)

The 2022 and 2021 effective tax rates differ from the 21% Federal statutory rate, respectively, primarily due to state and local taxes, changes in unrecognized tax benefits and settlement of tax audits. Details for the reconciliation of the U.S. Federal statutory tax rate to the Company's effective tax rate on Income before taxes for the years ended December 31, 2022 and 2021 follow:

	<u>2022</u>	<u>2021</u>
U.S. statutory tax rate	21.0 %	21.0 %
State and local income taxes, net of Federal tax benefit	8.3	8.1
Change in unrecognized tax benefits	0.8	1.1
Settlements of tax audits	—	(3.8)
Other	(0.1)	(0.1)
Effective tax rate	<u>30.0 %</u>	<u>26.3 %</u>

Details for the components of deferred tax assets and liabilities as of December 31, 2022 and 2021 follow (in thousands):

	<u>2022</u>	<u>2021</u>
<u>Deferred tax assets:</u>		
Deferred rent	\$ 3,999	\$ 5,786
Depreciation and amortization	3,905	1,843
Other	271	—
Total deferred tax assets	<u>8,175</u>	<u>7,629</u>
<u>Deferred tax liabilities:</u>		
Capitalized software	(10,411)	(15,714)
Accrued compensation and benefits	(9,282)	(6,481)
Other	—	(163)
Total deferred tax liabilities	<u>(19,693)</u>	<u>(22,358)</u>
Net deferred tax liabilities	<u>\$ (11,518)</u>	<u>\$ (14,729)</u>

The deferred tax assets are expected to be fully realized and, accordingly, no valuation allowance was established as of December 31, 2022 and 2021.

Details for unrecognized tax benefits as of December 31, 2022 and 2021 follow (in thousands):

	<u>2022</u>	<u>2021</u>
Beginning balance	\$ —	\$ 3,067
Increases:		
Prior period tax positions	1,747	—
Decreases:		
Prior period tax positions	—	(1,900)
Settlements with tax authorities	—	(1,167)
Ending balance	<u>\$ 1,747</u>	<u>\$ —</u>

The Company classifies interest and penalties related to unrecognized tax benefits, if incurred, in Provision for income taxes in its accompanying Statements of Income. As of December 31, 2022 and 2021, accrued interest related to unrecognized tax benefits recorded on the accompanying Statements of Financial Condition totaled \$445,000 and \$0, respectively.

NATIONAL SECURITIES CLEARING CORPORATION

NOTES TO FINANCIAL STATEMENTS

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11. INCOME TAXES (CONTINUED)

Unrecognized tax benefits are estimated based on judgment, assessment of relevant risks, facts and circumstances. Actual results could differ materially from those estimates. The Company believes that the liability for unrecognized tax benefits is the best estimate in relation to the potential for additional assessments. Unexpected results from one or more such tax audits could significantly adversely affect the Company's income tax provision and results of operations. On February 1, 2021, the Company and the New York City tax authority reached a settlement agreement related to income tax audits of the 2010-2014 fiscal years. The Company reduced the related unrecognized tax benefit and accrued interest by \$1,900,000 and \$2,433,000, respectively.

Details for the periods currently under examination and remaining subject to examination by jurisdiction as of December 31, 2022 follow:

Jurisdiction	Tax Years	
	Under Examination	Subject to Examination
U.S. Federal - Internal Revenue Service	-	2019 - 2021
New York State	-	2019 - 2021
New York City	2015 - 2017	2019 - 2021
State of Florida	2017 - 2019	2020 - 2021
State of California	2017 - 2018	2019 - 2021
State of Michigan	2016 - 2019	-

12. CAPITAL REQUIREMENTS

As required by Rule 17Ad-22(e)(15) of the CCAS and pursuant to the Clearing Agency Policy on Capital Requirements, the Company must meet its total capital requirement by holding liquid net assets funded by equity. The total capital requirement for NSCC is equal to the sum of the general business risk capital requirement and corporate contribution, as described below.

General Business Risk Capital Requirement. This capital requirement is held to cover potential general business losses so that the Company can continue operations and provide services as a going concern if those losses materialize. It is determined based on the Company's general business risk profile and estimated time to execute a recovery or orderly wind-down of critical operations and, at a minimum, is equal to six months of operating expenses.

Corporate Contribution. The corporate contribution is applied to losses of the Company as provided in NSCC's rules. The amount of the corporate contribution is generally equal to 50% of the Company's general business risk capital requirement.

Details for the general business risk capital requirement, corporate contribution and liquid net assets funded by equity for the Company as of December 31, 2022 and 2021 follow (in thousands):

	2022	2021
General business risk capital requirement	\$ 224,590	\$ 211,964
Corporate contribution	112,295	105,982
Total requirement	336,885	317,946
Liquid net assets funded by equity	645,416	570,329
Excess	\$ 308,531	\$ 252,383

NATIONAL SECURITIES CLEARING CORPORATION

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13. TRANSACTIONS WITH RELATED PARTIES

In the ordinary course of the business, the Company enters into significant related party transactions with DTCC and its other subsidiaries.

Transactions with DTCC. NSCC has an agreement with DTCC whereby DTCC pays for substantially all of the operational expenses of NSCC, and, from time-to-time, purchases of long-term assets acquired by DTCC on behalf of NSCC. The related expenses are allocated to NSCC based upon its estimated use of such goods or services. Further, the agreement provides that DTCC performs credit and quantitative risk services, and certain other services for NSCC including administrative, internal audit, finance and legal services. For the years ended December 31, 2022 and 2021, the billing for these services amounted to the allocated expenses plus an 8% and 7% mark-up fee, respectively, excluding charges passed through to Participants and capitalized software costs. The fee, representing the amount in excess of the actual cost, is included in Professional and other services in the accompanying Statements of Income.

Transactions with DTCC Solutions LLC. DTCC Solutions LLC sells data products including referential and activity-based data, security reference and benchmark analytics, on behalf of NSCC. All of the revenue from the sales is billed back to NSCC and is included in Other services in the accompanying Statements of Income. The associated expenses incurred, plus a 5% mark-up fee, are also billed back to NSCC, and these related expenses are included in substantially all of the operational expenses of NSCC, in the accompanying Statements of Income.

Details for related party transactions for 2022 and 2021 follow (in thousands):

Related parties	Revenues ⁽²⁾		Expenses		Payables/(Receivables) ⁽³⁾	
	For the years ended December 31,		For the years ended December 31,		As of December 31,	
	2022	2021	2022	2021	2022	2021
DTCC ⁽¹⁾	\$ —	\$ —	\$ 32,164	\$ 24,856	\$ 46,809	\$ 37,182
DTCC Solutions LLC	8,477	7,583	4,709	3,170	(230)	(377)
Total	<u>\$ 8,477</u>	<u>\$ 7,583</u>	<u>\$ 36,873</u>	<u>\$ 28,026</u>	<u>\$ 46,579</u>	<u>\$ 36,805</u>

(1) DTCC expenses represent the 8% and 7% mark-up fee for services described above.

(2) Included in Other services in the accompanying Statements of Income.

(3) Included in Accounts payable and accrued expenses on the accompanying Statements of Financial Condition.

14. GUARANTEES

NSCC provides CCP services, including clearing, settlement and risk management services. Acting as a CCP, NSCC guarantees the settlement of trades in the event one or more of its Participants defaults. A Participant default is defined in NSCC's Rules. In its guarantor role, NSCC has equal claims to and from Participants on opposite sides of netted transactions. To cover its default risk, NSCC uses risk-based margining to determine Participants' required cash and eligible securities deposits to its Clearing Fund, which are collected at the start of each business day and may also be collected on an intraday basis.

NSCC is the leading provider of clearance, netting, risk management and settlement for virtually all U.S. broker-to-broker trades involving equities, corporate and municipal debt, exchange traded funds and unit investment trusts. Through its Continuous Net Settlement (CNS) system, NSCC is interposed between Participants in securities clearance and settlement. CNS transactions are generally guaranteed at the point of trade comparison and validation for bilateral submissions or the point of trade validation for locked-in submissions. Since NSCC stands between the Participants delivering and receiving CNS trades, the failure of Participants to deliver securities to NSCC on settlement date, and the corresponding failure of NSCC to redeliver the securities, results in open positions. Open CNS positions are marked-to-market daily. Such marks are debited from or credited to the involved Participants through the settlement process.

NATIONAL SECURITIES CLEARING CORPORATION
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14. GUARANTEES (CONTINUED)

Details for NSCC's open positions for which a trade guaranty applied as of December 31, 2022 and 2021 follow (in billions):

	<u>2022</u>	<u>2021</u>
NSCC	\$ 166	\$ 185

There were no defaults by Participants to these obligations in 2022 and 2021.

If a Participant defaults, such Participant's deposits to the Clearing Fund is the first source of funds and collateral that NSCC would use to cover any losses that may result from the close-out and liquidation of the defaulting Participant's positions. NSCC may also use amounts that may be available to it under applicable agreements with other registered clearing agencies that relate to the guaranty by one or more clearing agency parties of certain obligations of a defaulting Participant to other clearing agency parties. NSCC is currently party to two such agreements. NSCC is party to a netting contract and limited cross-guaranty with DTC relating to collateralization across the NSCC-DTC interface. NSCC is also party to a multilateral netting contract and limited cross-guaranty agreement with DTC, FICC and The Options Clearing Corporation (OCC). In accordance with this multilateral netting agreement, the clearing agencies have agreed to make payments to each other for unsatisfied obligations of a common defaulting Participant to the extent that these clearing agencies have excess resources belonging to the defaulting Participants.

If NSCC incurs a loss resulting from the liquidation of a defaulting Participant and there is still a deficit after applying such Participant's deposits to the Clearing Fund (along with any other resources of, or attributable to, the defaulting Participant that NSCC may access under NSCC's rules), NSCC would, in accordance with NSCC's rules, satisfy this deficit by applying the corporate contribution, (see Note 12), or such greater amount as the Board of Directors may determine, before allocating any remaining loss to Participants.

For purposes of loss allocation, Participant defaults are grouped together chronologically into discrete event periods of 10 business days. If there is remaining loss or liability from one or more Participant default events that occurred within the same event period, NSCC will assess its non-defaulting Participants as provided for in its rules. The process, in general, allocates any remaining losses or liabilities among the Participants of NSCC who were Participants on the first day of the event period ratably in accordance with their respective average daily required deposits to the Clearing Fund over the prior 70 business days.

15. OFF BALANCE SHEET AND CONCENTRATION OF CREDIT RISKS

As a CCP, NSCC is exposed to significant credit risk to third parties including its Participants, which extends to companies within the global financial services industry. Credit risk represents the potential for loss due to the default or deterioration in credit quality of a Participant. The Company's exposure to credit risk is primarily derived from providing clearing and settlement service operations. NSCC's global Participant base includes participating brokers, dealers, banks, mutual fund companies, insurance carriers and other financial intermediaries.

Credit risk also comes from the investment of financial assets, which consist principally of cash and cash equivalents, investments, accounts receivable and the Clearing Fund. Concentrations of credit risk may arise due to large connected individual exposures and significant exposures to groups of Participants whose likelihood of default is driven by common underlying factors including economic conditions affecting the securities industry and debt-issuing countries.

Cash and cash equivalents. The Company maintains cash and cash equivalents with various financial institutions including the Federal Reserve Bank of New York. The Company's investment policy is designed to limit its exposure with any one financial institution. As part of its credit and risk management processes, the Company performs periodic evaluations of the relative credit standing of the financial institutions with whom it places funds. The Company generally makes deposits with financial institutions having a credit rating of at least BBB+/Baa1 or better from recognized rating agencies and that are approved via its internal credit review process. The Company also monitors the credit ratings of the financial institutions with whom it places funds on an ongoing basis to identify any significant change in a financial institution's condition. If such a change takes place, the amounts deposited in such financial institutions may be adjusted.

NATIONAL SECURITIES CLEARING CORPORATION

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15. OFF BALANCE SHEET AND CONCENTRATION OF CREDIT RISKS (CONTINUED)

Marketable securities. In addition to investing in reverse repurchase agreements, money market funds and bank deposits, the Company also directly invests in U.S. Treasury securities and debt obligations of the U.S. government or those U.S. government agencies guaranteed by the U.S. government, pursuant to its investment policy. Credit risk related to investments in marketable securities involves the risk of nonperformance by the counterparty, which could result in a material loss.

Accounts receivable. Credit risk related to accounts receivable involves the risk of non-payment by the counterparty. Credit risk is diversified due to the large number of Participants. The Company also performs ongoing credit evaluations of the financial conditions of its Participants and evaluates the delinquency status of the receivables.

Clearing Fund. Cash deposits to the NSCC Clearing Fund are invested in bank accounts that provide same day access to funds.

The Company is exposed to credit risk on a daily basis. This risk arises at NSCC as it guarantees certain obligations of its Participants under specified circumstances pursuant to its rules. The Company manages and mitigates this risk by identifying, measuring and responding to these risks in order to protect the safety and soundness of the NSCC clearing and settlement system. Various tools are utilized to mitigate these risks including, but not limited to: setting capital adequacy standards; assessing new applicants for membership; performing continuous monitoring of Participants' financial condition; reviewing Participants' daily trading activity and determining appropriate collateral requirements; maintaining its risk-based Clearing Fund; netting trades continuously; marking unsettled trades to market; and utilizing quantitative analytical tools.

To become a Participant, an applicant must meet minimum eligibility criteria that are specified in the Company's rules. All applicants must provide the Company with certain financial and operational information to be a Participant. This information is reviewed to ensure the applicant has sufficient financial resources to make anticipated contributions to the Clearing Fund and to meet its obligations to the Company. The credit quality of the Participant is evaluated at the time of application and monitored on an ongoing basis to determine if the Participant continues to be financially stable and able to meet the financial requirements of membership. As part of its review, the Company utilizes an internal credit risk-rating matrix and/or other forms of surveillance to risk rate or monitor Participants. The resulting rating or degree of surveillance determines the level of financial review to be performed on each Participant and may impact their Clearing Fund requirements.

The Company collects Clearing Fund deposits from its Participants using a risk-based margin methodology. The risk-based methodology enables the Company to identify the risks posed by a Participant's unsettled portfolio and to quickly adjust and collect additional deposits as needed to cover those risks. At multiple times during the day, Clearing Fund requirements are calculated for each Participant based on their then-current unsettled and pending transactions. Security pricing is updated on an intraday basis and additional charges may be collected to cover significant price movements from those Participants with a significant exposure in the identified security. The Company monitors Participants' overall trading activities throughout the trading day to determine whether exposures exist that would require special actions to increase their Clearing Fund deposits.

The Company regularly performs back testing, stress testing and model performance monitoring of the quality and accuracy of its risk management systems to ensure the adequacy of Clearing Fund requirements and to respond to other risk factors that the monitoring may reveal.

NSCC maintains liquid resources to support potential liquidity needs in the event of a Participant default. In addition to the cash deposits to the Clearing Fund, these resources also include the cash that would be obtained from a committed, secured line of credit, proceeds from issuance of senior notes, and proceeds from a commercial paper and extendable note program. NSCC has the Supplemental Liquidity Deposit ("SLD") - a rules-based funding obligation that requires Members whose activity generate liquidity needs in excess of NSCC's then available liquid resources, to fund such additional amounts. SLD deposits must be in cash and are held and maintained in the same manner as other Clearing Fund deposits.

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15. OFF BALANCE SHEET AND CONCENTRATION OF CREDIT RISKS (CONTINUED)

The Company also limits its exposure to potential losses from a Participant default through a multilateral netting contract and limited cross-guaranty agreement with DTC, FICC and OCC, under which these clearing agencies have agreed to make payments to each other for unsatisfied obligations of a common defaulting Participant to the extent they have excess resources of the defaulting participant. NSCC is also party to a netting contract and limited cross-guaranty agreement with DTC, which includes special cross-guaranties and related arrangements designed to permit transactions to flow smoothly between DTC's system and the CNS system in a collateralized environment. These guaranties reduce risk at NSCC by ensuring that long allocations, or the approximate value of long allocations, will be made available to NSCC in a default situation.

Derivatives and hedging. Derivatives may give rise to counterparty credit risk, which is the risk that a derivative counterparty will default on, or otherwise be unable to perform pursuant to, an uncollateralized derivative exposure. To mitigate derivative credit risk, counterparties are required to be pre-approved and rated as investment grade, and counterparty risk exposures are centrally monitored.

16. SUBSEQUENT EVENTS

The Company evaluated events and transactions occurring after December 31, 2022 through February 27, 2023, the date these financial statements were available to be issued, for potential recognition or disclosure. No events or transactions, other than the one mentioned in Note 2, occurred during such period that would require recognition or disclosure in these financial statements.