



Client relationship summary, as of July 31, 2023



This summary is provided to help you make informed decisions about the services, products and accounts offered by TIAA-CREF Individual & Institutional Services, LLC (“TC Services,” “we,” “us,” “our”), and includes important information about the recommendations we make and the fees we charge. TC Services is a TIAA affiliate and Securities and Exchange Commission registered broker-dealer (“BD”) and investment adviser (“RIA”). *BD and RIA services and fees differ, and it is important that you understand the differences. Free and simple tools are available to research firms and financial professionals at [Investor.gov/CRS](https://www.investor.gov/crs). The site also provides educational materials about BDs, RIAs and investing.*

1. What investment services and advice can you provide me?

We offer both BD services and RIA services to retail investors. If you have a Plan, or are a participant of, we may use data from the Plan to provide these services to you. Plan sponsors do not review or endorse any services, accounts or products available outside of their Plans.

 Broker-dealer services¹	 Registered investment adviser services²
<p>Through our BD representatives and online tools and calculators we can:</p> <ul style="list-style-type: none"> Recommend that you open, contribute or consolidate your assets (by rolling over or transferring) to accounts/products we recommend as a BD (listed on right) Recommend that you purchase and sell specific investments for your Plans (where available), IRAs offered by TIAA (excluding managed account IRAs) and certain affiliated annuities, but not for brokerage accounts offered by us Recommend annuitizing affiliated annuity products to create lifetime income Buy and sell securities for your accounts at your direction Offer education and enrollment services that do not involve a recommendation <p>We are a distributor for TIAA-affiliated mutual funds and variable annuities and for certain state-issued education savings plans.</p>	<p>Through our RIA representatives we can:</p> <ul style="list-style-type: none"> Provide financial planning to help you understand your goals and make a plan to pursue them Recommend that you open, contribute or consolidate your assets (by rolling over or transferring) to accounts/products we recommend as an RIA (listed on right) <p><i>Financial planning is provided based on your needs at the time of the service and does not include any investment recommendations. Your accounts are not monitored as part of this service, and TC Services does not make any decisions regarding the purchase or sale of investments in your accounts.</i></p>
<p><i>Our BD services are provided based on your needs at the time of the service.</i></p> <p>Recommendations to purchase or sell specific investments for:</p> <ul style="list-style-type: none"> Plans—limited to a menu of investments selected by the plan sponsor IRAs offered by TIAA (excluding managed account IRAs)—limited to a menu of TIAA-affiliated mutual funds, annuities and bank deposits <p><i>Our BD services and accounts/products we recommend as a BD are not subject to minimums and do not provide ongoing monitoring. They are non-discretionary. You make the ultimate decision regarding the purchase or sale of investments.</i></p>	<p><i>Our managed accounts include a customized model portfolio limited to mutual funds and/or exchange-traded funds (“ETFs”), are subject to minimums and provide ongoing monitoring and discretion by us.</i></p> <p><i>TIAA Trust, N.A. managed accounts include a customized portfolio limited to mutual funds, ETFs, individual equity securities and/or bonds, are subject to minimums and provide ongoing monitoring and discretion by TIAA Trust, N.A.</i></p>

As a BD we recommend:

- Employer-sponsored plans recordkept by TIAA (“Plans”)
- Brokerage accounts offered by us
- Individual Retirement Accounts (“IRAs”) sponsored by TIAA (excluding managed account IRAs)
- Affiliated retirement annuity products available in Plans and IRAs
- Affiliated annuity products available outside of Plans and IRAs

As an RIA we recommend:

- Managed accounts offered by us
- Managed accounts offered by TIAA Trust, N.A. (our affiliated trust company)

¹For BD recommendations you’ll receive the *Regulation Best Interest* disclosure.

²For RIA services you will also receive the ADV 2A disclosure brochure.

Other services


Separate from our BD and RIA services, we may also:

- Offer you nonsecurities products such as fixed annuity products
- Refer you to third-party providers for bank deposits and lending products
- Refer you to TIAA Trust, N.A. for trust services, investment management, and in-Plan asset allocation and quarterly rebalancing services
- Refer you to TIAA-CREF Tuition Financing, Inc. for education savings
- Refer you to third-party agency for life insurance and long-term care

2. What fees will I pay?

There are fees associated with our BD and RIA services and the accounts/products we recommend (see fee chart on page 3). **You will pay fees and costs whether you make or lose money on your investments. Fees and costs will reduce any amount of money you make on your investments over time. Please make sure you understand what fees and costs you are paying.**

These fees create conflicts of interest. We have an incentive to encourage you to invest or consolidate your assets into the accounts/products we recommend because TC Services and its affiliates and representatives are compensated when you do so. Specific conflicts of interest are addressed in the next question.

 **Fee types and definitions**—A fee is the principal amount you pay for the product or service
For more information about fees and their frequencies, see [TIAA.org/relationshipdisclosures](https://www.tiaa.org/relationshipdisclosures).

Account fees

These fees can include various account maintenance fees, transfer fees, a termination fee, contingent deferred sales charges or other charges that may be incurred upon the sale of a security transferred into an account at your request and/or redemption fees.

Asset-based fee

The account's monthly fee determined by the market value of assets in an account.

Asset-based wrap fee

The account's quarterly fee determined by the market value of assets in an account and inclusive of most transaction costs and fees charged by TC Services and its clearing firm.

Referral fees

We may receive one-time or ongoing referral fees for referring you to affiliated or unaffiliated service providers for bank deposits, insurance sales or investment management services.

Brokerage commissions

Fees for the purchase or sale of securities in an account.

General administrative expenses

Expenses charged to or deducted from Plan balances to pay service providers like TIAA for plan administrative service.

Insurance fees

These fees can include state premium taxes, upfront sales loads, surrender charges, cost of insurance charges, administrative charges and mortality and expense risk charges.

Investment expenses

Expenses associated with the investments held (i.e., funds), whether directly or in an account, as disclosed in a prospectus or similar document. Such expenses vary by product and share class and depend on the distribution arrangement we have in place with the product sponsor.

Transaction fees

Transaction charges for each applicable transaction.



What to ask a representative

Given my financial situation, should I choose a registered investment adviser service? Should I choose a broker-dealer service? Should I choose both types of services? Why or why not?

How will you choose investments to recommend to me?

What is your relevant experience, including your licenses, education and other qualifications? What do those qualifications mean?



Additional information

You can find detailed information about each of our BD and RIA services, the accounts/products we recommend, fees and costs at [TIAA.org/relationshipdisclosures](https://www.tiaa.org/relationshipdisclosures).

	What we recommend/provide	Fees
Broker-dealer services	Plans	General administrative expenses, investment expenses
	Brokerage accounts offered by us (including retail, IRA and accounts associated with employer-sponsored retirement plans)	Account fees, brokerage commissions, investment expenses, transaction fees Important: You are charged more when there are more trades in your account.
	IRAs offered by TIAA (excluding managed account IRAs)	No brokerage commissions, except for brokerage account windows (which charge brokerage commissions and transaction fees), investment expenses
	Affiliated annuities (available both in and out of Plans and IRAs)	Account fees, investment expenses
	Third-party life insurance products referrals	Commissions, insurance fees and/or investment expenses (we receive referral fees from a third-party agency)
Registered investment adviser services	Financial planning	No fee (but if you choose an account/product we recommend or buy or sell securities after receiving financial planning services, you will pay the fees associated with that account/product, purchase or sale)
	Managed accounts offered by us	Asset-based wrap fee, account fees, investment expenses <i>Important: The more assets in your managed account, the more TC Services or TIAA Trust, N.A. will receive in fees.</i>
	Managed accounts offered by TIAA Trust, N.A.	Asset-based fee, transaction fees, account fees, investment expenses



What to ask a representative

Help me understand how these fees and costs might affect my investments. If I give you \$10,000 to invest, how much will go to fees and costs, and how much will be invested for me?

How might your conflicts of interest affect me, and how will you address them?



Additional information

You should recognize there are differences between our RIA and BD services. The fiduciary duty that extends to RIA services is broader than the best interest standard under Regulation Best Interest that applies to our BD services. You can find more information about conflicts of interest specific to our RIA and BD services and accounts/products we recommend at [TIAA.org/relationshipdisclosures](https://www.tiaa.org/relationshipdisclosures).

3. What are your legal obligations to me when providing recommendations as my broker-dealer or when acting as my investment adviser? How else does your firm make money and what conflicts of interest do you have?

When we provide you with a recommendation as your broker-dealer or act as your investment adviser, we have to act in your best interest and not put our interest ahead of yours. At the same time, the way we make money creates some conflicts with your interests. You should understand and ask us about these conflicts because they can affect the recommendations and investment advice we provide you. Here are some examples to help you understand what this means.

TC Services and/or TIAA affiliates benefit when:	This creates a conflict of interest that gives TC Services an incentive to:
1 You invest in TIAA-affiliated mutual funds, annuities and certain third-party bank deposits because these products result in higher compensation to TC Services and/or TIAA affiliates than third-party products	Recommend (or invest your assets in) TIAA products or certain third-party bank deposit products over third-party products
2 You hold or own third-party mutual funds, exchange-traded funds, annuities and third-party variable life insurance products because they result in compensation to TC Services and/or TIAA affiliates	Recommend (or invest your assets in) third-party products that result in compensation to TC Services and/or TIAA affiliates over other third-party products that compensate TC Services and/or TIAA affiliates less
3 We include on our platforms share classes of both proprietary as well as third-party mutual funds that pay us administrative, distribution and/or service fees	Offer a more expensive share class than a lower cost alternative, even though higher investment expenses decrease your investment performance
4 Uninvested cash in your account is swept into a third-party cash sweep option or a limited selection of other cash sweep options (with whom TC Services and its clearing firm have an arrangement in place) because these cash sweep options result in higher compensation to TC Services and/or TIAA affiliates than other cash sweep options	Offer cash sweep options that compensate TC Services more than other available cash sweep options, even if such options generate a higher yield for you than the options we include
5 You open, roll over, consolidate, annuitize or transfer assets to the accounts/products we recommend	Recommend that you move your assets to TIAA and create lifetime income/annuitize through annuities

4. How do your financial professionals make money?

Our financial professionals are paid a **salary plus bonuses**. The bonus is primarily based on gathering and in some cases retaining client assets at TIAA. As a result, they have a conflict of interest. For more details, see [TIAA.org/relationshipdisclosures](https://www.tiaa.org/relationshipdisclosures).



What to ask a representative

As a financial professional, do you have any disciplinary history? For what type of conduct?

Who is my primary contact person? Are they a representative of an investment adviser or a broker-dealer?

Who can I talk to if I have concerns about how this person is treating me?

 Wealth Management Advisors (WMAs) <i>Registered as both BD and RIA representatives</i>	 Advisory Consultants (ACs) <i>Registered as both BD and RIA representatives</i>	 Other representatives <i>Registered as BD representatives</i>
<p>Have an incentive to encourage you to bring in and keep assets at TIAA and enroll in accounts/products we recommend including:</p> <ul style="list-style-type: none"> Plans, IRAs and Managed Accounts, where we compensate the same regardless of the account or product type After-tax annuities, insurance and brokerage accounts, where we compensate differently, including among such products 	<ul style="list-style-type: none"> Have an incentive to encourage you to bring in and keep assets at TIAA as well as to enroll in accounts/products we recommend regardless of the particular account/product 	<ul style="list-style-type: none"> Have an incentive to encourage you to bring in assets at TIAA as well as to enroll in accounts/products we recommend regardless of the particular account/product Are paid for making successful referrals to WMAs and ACs regardless of the particular account/product

5. Do you or your financial professionals have legal or disciplinary history?

Yes. Visit [Investor.gov/CRS](https://www.investor.gov/CRS) or [brokercheck.finra.org](https://www.brokercheck.finra.org) for free and simple search tools to research TIAA-CREF Individual & Institutional Services, LLC and its financial professionals.

Additional information: For detailed information about our BD and RIA services and the accounts/products we recommend, go to [TIAA.org/relationshipdisclosures](https://www.tiaa.org/relationshipdisclosures). For up-to-date information or a copy of this disclosure, please call 888-583-2535.



You can open a new account by completing this form and mailing it to us. Or to avoid paperwork and make the process faster, you can open an account online by visiting TIAA.org/public/offer/products/brokerage. If you complete an online application, your account will generally be opened within one business day.

Whether you complete this paper form or go online, please keep in mind that to help the government fight the funding of terrorism and money-laundering activities, federal law requires all financial institutions, including TIAA, to obtain, verify and record information that identifies each person who opens an account.

What does this mean for you? When you open an account, we will ask for your name, residential address, date of birth, Social Security Number and other information that will allow us to identify you. We may also ask to see your driver's license or other identifying documents. Until you provide the information we need, we may not be able to open an account or effect any transactions for you.

Questions? Please call 800-842-2252, weekdays, 8 a.m.-7 p.m. (ET).

STEP 1: BROKERAGE ACCOUNT REGISTRATION (REQUIRED)

Individual
 Joint Tenants With Rights of Survivorship
 Joint Tenants in Common
 Trust (Trustee Certification Form Required)

Custodial (UGMA/UTMA)
 Other

STEP 2: TRUST ACCOUNT INFORMATION (ONLY REQUIRED FOR TRUST ACCOUNTS)

Trust Account Name

Social Security Number/
Taxpayer Identification Number

Trust Effective Date
(mmddyyyy)

STEP 3. PRIMARY ACCOUNT OWNER/TRUSTEE/MINOR INFORMATION (REQUIRED)

Title
 First Name
 M. I.

Last Name
 Suffix

Social Security Number
 Date of Birth (mmddyyyy)
 Gender Male Female

Marital Status Married Other
 Citizenship (If not U.S.)

U.S. Residential Street Address (No P.O. Boxes)
 City
 State
 Zip Code

Mailing Address (If different from your residential address)
 City
 State
 Zip Code

Email Address
 Business Phone
 Home Phone





EMPLOYMENT INFORMATION FOR ACCOUNT OWNER/TRUSTEE (REQUIRED)

Unemployed or Retired, state source of income:

Employed, Self-Employed or Consultant, complete the following:

Employer's Name

Your Occupation/Title

Business Street Address

City

State

Zip Code

Complete if applicable:

I am, or an immediate family member is, a director, a 10% shareholder, or a policy-making executive of a publicly traded company.

Name of Person

Company Name/Symbol

I am, or an immediate family member is, affiliated with or working for another member firm, stock exchange, or FINRA, including TIAA or as an affiliated person will have any financial interest in or discretionary authority over this account.

Relationship to Person

Name of Person

Name of Firm

I am, or a person with interest in this account is (i) a senior military, governmental or political official in a non-U.S. country, or (ii) closely associated with or an immediate family member of such an official.



STEP 6: YOUR INVESTMENT PROFILE (REQUIRED)

Primary investment objective (choose one): Capital Preservation Income Growth Speculation

Investment Knowledge (choose one): None Limited Moderate Extensive

Annual income (from all sources): Under \$24,999 \$25,000 - \$49,999 \$50,000 - \$99,999
 \$100,000 - \$250,000 Over \$250,000

Approximate net worth, excluding residence: \$0 - \$49,999 \$50,000 - \$99,999 \$100,000 - \$249,999
 \$250,000 - \$1 million Over \$1 million

Current tax bracket: 0 - 15% 15.1% - 32% 32.1% - 50% Over 50%

Source of Funds:

Income from Earnings Investment Proceeds Gift Sale of Business
 Legal Settlement Pension/IRA Retirement Savings Spouse/Parent Inheritance
 Insurance Proceeds Other

STEP 7: ACCOUNT OPTIONS

Sweep Option: TIAA Brokerage Sweep Account*

* Two separate bank sweep options will be used: (1) the TIAA Brokerage Sweep Account option, to be used as the primary bank sweep option for uninvested cash balances in your account up to a maximum amount set by the providing bank (not to exceed current per depositor FDIC insurance limits); and (2) the Liquid Insured Deposits option, to be used for uninvested cash balances in your Account in excess of the maximum amount accepted by the providing bank. Interest rates may change at any time. Current rates, Agreements, Disclosures and providing bank information can be accessed at TIAA.org/public/invest/financial-products/brokerage-accounts/interest-rate-disclosure or by calling 800-842-2252.

TIAA Brokerage provides several options for managing cash balances in your brokerage account. Availability of the options is based on account type. Not all options are available in every account type. You can log in to your account or call 800-842-2252 to find out more about which options are available for your account and for current interest rate information.

STEP 8: MARGIN BORROWING (OPTIONAL)

Margin is subject to TIAA Brokerage approval and may require a credit history. Margin borrowing involves additional risks and is not suitable for all investors. If no selection is made, you will not be granted margin.

Margin: Yes No





STEP 9: AGREEMENT AND SIGNATURE(S) (REQUIRED)

By signing this TIAA Brokerage Account Application ("Application"), each Account Holder, individually, acknowledges, understands and certifies, as follows:

I acknowledge that the Application is not for a foreign financial institution or a private banking account.

I am opening a brokerage account ("Account") with TIAA Brokerage ("TIAA"). TIAA is a division of TIAA-CREF Individual & Institutional Services, LLC ("Services LLC"). Brokerage accounts and related brokerage services are provided by TIAA as a registered broker/dealer. I certify that the information I have provided in this Application is true and correct, and that I am of legal age and have the legal capacity to open this Account with TIAA.

Securities not fully paid for by the undersigned may be loaned to Pershing LLC, Services' custodian ("Pershing") or loaned out by Pershing to others, and as permitted by law, certain securities in the Account may be used for, among other things, settling short sales and lending the securities for short sales and, as a result, Pershing and TIAA may receive compensation in connection therewith. Interest on debt balances will be charged and compounded in accordance with the Agreement. Furthermore, New York Stock Exchange Rule 407 prohibits certain account holders from engaging in margin transactions without their employer's written consent. Pershing may suspend execution of any trades in my Account pending receipt of this consent.

I understand that the Account includes a sweep option feature which automatically transfers uninvested cash balances in the Account at the end of each business day to the bank sweep deposit option (a "Sweep Option" and together the "Sweep Program") and facilitates the transfer of uninvested cash balances to cover purchases of securities and other debits in the Account. I direct Services LLC to use the default Sweep Option provided within this Account Application. A prospectus or similar disclosure document for the Sweep Option is available by calling 800-842-2252. I agree to review this disclosure document prior to opening the Account. TIAA may change the terms and conditions of the Sweep Program and the Sweep Options available for the Account, in its sole discretion. I understand that TIAA will provide me with written notice in advance of adding, changing or deleting Sweep Options for the Account or making other changes to the Sweep Program to the extent required by applicable law.

Each Account Holder, individually, acknowledges that: (1) I have been furnished with a copy of the TIAA Brokerage Customer Account Agreement ("Agreement"), which includes the Cash Solutions Account and Margin Agreement sections, the Disclosure Statement, and the Margin Disclosure Statement, which details the risks associated with a margin account and the credit terms explained in the Disclosure Statement, and I have read, understood, and agree to be bound by the terms and conditions as they are currently in effect and as they may be amended, from time to time; and (2) BY SIGNING THIS AGREEMENT I ACKNOWLEDGE THAT SECURITIES NOT FULLY PAID FOR BY ME MAY BE LOANED TO PERSHING OR LOANED OUT TO OTHERS; (3) THIS APPLICATION IS GOVERNED BY A PREDISPUTE ARBITRATION CLAUSE, WHICH APPEARS ON PAGES 2 AND 3, PARAGRAPH 13 OF THE AGREEMENT.

Substitute W-9 Request for Taxpayer Identification Number and Certification

Under penalties of perjury, I certify that: (1) The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and (2) I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and (3) I am a U.S. citizen or other U.S. person (as defined in the form W-9 instructions); and (4) the FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Your Signature (Primary Account Owner/Trustee/Custodian)

Print Name and Title (if applicable)

Today's Date (mm/dd/yyyy)

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Your Signature (Secondary Account Owner/Trustee)

Print Name and Title (if applicable)

Today's Date (mm/dd/yyyy)

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Your Signature (Additional Account Owner/Trustee)

Print Name and Title (if applicable)

Today's Date (mm/dd/yyyy)

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Investment products are provided by TIAA Brokerage, a division of TIAA-CREF Individual & Institutional Services, LLC. Member FINRA and SIPC. Securities are not FDIC insured and are not a deposit or other obligation of or guaranteed by any bank or TIAA. Securities are subject to investment risk, including possible loss of the principal amount invested.

Brokerage accounts are carried by Pershing LLC, a subsidiary of The Bank of New York Corporation, Inc. Member FINRA, NYSE, SIPC.





OPTIONS TO RETURN COMPLETED FORM(S)

OPTION 1: Use the TIAA mobile app to quickly upload your completed document(s). It's as simple as taking a picture. Haven't downloaded the TIAA mobile app? Get it today in the **App Store** or **Google Play**.

- Tap the **Message Center** icon in the upper-right corner of your main screen.
- Go to the **Files** tab, select **Upload** and then follow the instructions.

OPTION 2: If you are using your personal computer, here's what you'll need to do to upload your completed document(s):

- Log in to your **TIAA.org** account and select the **Actions** tab.
- Choose **Upload document(s)** from the options presented.
- Select **Upload Files** and follow the step-by-step instructions.

OPTION 3: If you prefer to fax or mail this form, use the information provided below:

FAX:

800-914-8922 (within U.S.)
704-595-5795 (outside U.S.)

STANDARD MAIL:

TIAA
P.O. Box 1280
Charlotte, NC 28201-1280

OVERNIGHT DELIVERY:

TIAA
8500 Andrew Carnegie Blvd.
Charlotte, NC 28262





Changes to the TIAA Brokerage Account Customer Account Agreement (CAA) effective May 2024

Effective May 2024, TIAA Brokerage will be making updates to the Customer Account Agreement (CAA), which governs Self-Directed Brokerage, Portfolio Advisor and TIAA Personal Portfolio accounts.

In this document, you will find the current CAA and the updated version which will become effective May 2024. Advance to Page 21 of this combined package to view the CAA effective May 2024.

CAA Revision	Location in 2024 CAA
Updated references to TIAA-CREF Funds (to be known as Nuveen Funds).	Page 3, Section I, Paragraph 14 (Page 23 of the combined package)
The Terms & Conditions for Liquid Insured Deposits Sweep Product are being updated. Visit https://www.tiaa.org/public/invest/financial-products/brokerage-accounts/interest-rate-disclosure to review the updated Terms & Conditions.	Page 7, Section I, Paragraph 37 (Page 27 of the combined package)
Update to the Margin Agreement as referenced in the Customer Account Agreement. Visit https://www.tiaa.org/public/pdf/forms/F11008.pdf to review the agreement.	Page 11, Section IV (Page 31 of the combined package)
Update to the Cash Solutions Account (CSA) Terms & Conditions as referenced in the Customer Account Agreement. Visit https://www.tiaa.org/public/pdf/t/tiaa_brokerage_cash_solutions_account.pdf to review the Terms & Conditions.	Page 12, Section V (Page 32 of the combined package)
Clarification of mutual fund minimum investment for additional investments and reduction of period from 6 months to 3 months for the short-term redemption fee holding period.	Page 14, Section V (Page 34 of the combined package)
International overnight check delivery fee reduced.	Page 15, Section VI (Page 35 of the combined package)
Addition of Tax Statement Paper Surcharge (waived for those in a managed account or eDelivery for tax documents).	Page 16, Section VI (Page 36 of the combined package)

If you have any questions, please contact TIAA Brokerage at 800-842-2252, weekdays, 8 a.m. – 7 p.m. (ET).

TIAA Brokerage Account Customer Account Agreement

Effective July 2023

(Current Customer Account Agreement)



TIAA Brokerage Customer Account Agreement (Retail)

Brokerage accounts are provided by TIAA Brokerage, a division of TIAA-CREF Individual & Institutional Services, LLC, Member FINRA and SIPC, and are carried by Pershing LLC (“Pershing”), Member FINRA, NYSE, SIPC, a subsidiary of The Bank of New York Mellon Corporation.

I. General terms and conditions

By signing the TIAA Brokerage Services Account Application (“Account Application”), you agree to be bound by the following terms and conditions, as well as the terms and conditions set forth in Sections II to VI of this Agreement (collectively, with the Account Application, this “Agreement” or “agreement”).

If you are signing this Agreement in connection with a managed account advisory program with Advice & Planning Services, LLC (“APS”), a division of TIAA-CREF Individual & Institutional Services, LLC, you will not be bound by certain sections and provisions of this agreement while enrolled in the program, including Margin Agreements, Options Contracts and Commission and Transaction Fees (related to trading directed by APS). For certain services that you request in connection with your managed account, you will be charged the applicable account maintenance fee in accordance with the Commission and Fee Schedule at the end of this Agreement. See your managed account advisory program’s disclosure brochure and advisory agreement for more information about your managed account and the associated fees. If your management is terminated in accordance with your managed account advisory program’s advisory agreement, and your assets are transferred to a brokerage account with TIAA Brokerage Services (TBS), you will be bound by all the terms and conditions of this Agreement.

1. “You,” “your” or “Account holder” refers to all of the individual(s) who sign the Account Application for individual and joint Accounts and refers to the corporation, limited liability company, partnership, trust or other legal entity for corporate, limited liability company, partnership, trust or other legal entity Accounts.
2. “TIAA” refers to TIAA Brokerage, a division of TIAA-CREF Individual & Institutional Services, LLC. “Custodian” refers to the Custodian or trustee, as applicable, of your Account. “Account” or “Accounts” refers to the cash or margin account opened in your name with custody at Pershing.
3. If there is more than one Account holder, each joint Account holder’s obligations under this Agreement shall be joint and several (i.e., are the responsibility of each Account owner, both individually and jointly). Each joint Account holder has authority, acting individually and without notice to any other Account holder, to deal with TIAA as fully and completely as if the joint Account holder is the sole Account holder.
4. TIAA is authorized, but not obligated, to follow the instructions of any joint Account holder and to deliver funds, securities or other assets to any joint Account holder. TIAA is not responsible for determining the purpose or propriety of any instruction received from a joint Account holder or for the disposition of payments or deliveries among joint Account holders.
5. Any notice TIAA sends to one joint Account holder will be deemed notice to all joint Account holders. Any debts of a joint Account may be offset against any Accounts held individually by a joint Account holder.
6. You represent that you are of the age of majority, of legal capacity, and the information you have provided on your Account Application is accurate. You acknowledge that the Account is not for a foreign financial institution, private banking accounts or non-residents of the United States. You will notify TIAA of any change to the information provided on your Account Application within 30 days of such change.

7. You will promptly notify TIAA within 10 days if you become a director, 10% beneficial shareholder or an affiliate of a publicly traded company, or if you become a member firm or an employee of any securities exchange, or a self-regulatory organization or a corporation of which security exchange owns a majority of the capital stock.
8. You are responsible for determining the suitability of your Account transactions in light of your stated investment objectives and financial situation. TIAA has no responsibility for any such determination unless TIAA has otherwise specifically agreed in writing in connection with an advisory program or a TIAA representative has given advice directly to you that is clearly identified as a TIAA recommendation for you to buy, sell or hold a particular security or securities, or use a particular investment strategy, for your Account.
9. If TIAA makes such a recommendation, TIAA believes it is suitable for you at the time of the recommendation. TIAA has no ongoing duty to ensure the recommendation continues to be suitable for you. You have an affirmative duty to monitor for profits and losses in your Account and to modify your trading decisions accordingly. Furthermore, unless TIAA has otherwise specifically agreed in writing in connection with an advisory program, you acknowledge that: (a) TIAA does not have discretionary authority over your Account or an obligation to review or make recommendations for the investment of securities or cash in your Account; (b) you will rely on multiple sources of information in making investment decisions for your Account; (c) any information TIAA may provide will not serve as the primary basis for any investment decision you make or made on your behalf; and (d) TIAA does not provide investment advice or otherwise act as a “fiduciary” as that term is defined in the Employee Retirement Income Security Act of 1974, as amended, or Section 4975 of the Internal Revenue Code.
10. You acknowledge that TIAA offers many different Account types and you are responsible for selecting the type most appropriate for your needs. TIAA provides no subaccounting recordkeeping services or similar support for Accounts beneficially held by more than one owner.
11. TIAA may provide you with market data or research relating to securities and securities markets but does not guarantee the accuracy, completeness or timeliness of such information. Such market data or research is not personalized or in any way tailored to your personal financial circumstances or investment objectives, unless TIAA has otherwise specifically agreed in writing in connection with an advisory program. Other than in limited circumstances, TIAA limits the research available regarding mutual funds to certain mutual funds and shares classes of mutual funds that provide TIAA with a minimum level of compensation. You may be able to obtain research on such other mutual funds through other providers.
12. You understand that none of TIAA, Pershing and Custodian provide legal, tax or accounting advice and none of their employees are authorized to give any legal, tax or accounting advice, and you will not solicit or rely upon any such advice from TIAA, Pershing or the Custodian or their employees, whether in connection with transactions in or for your Account or otherwise.
13. You acknowledge this Agreement contains a pre-dispute arbitration clause. By signing an arbitration agreement, the parties agree as follows:
 - a. All parties to this Agreement are giving up the right to sue each other in court, including the right to a trial by jury, except as provided by the rules of the arbitration forum in which a claim is filed.
 - b. Arbitration awards are generally final and binding; a party’s ability to have a court reverse or modify an arbitration award is very limited.
 - c. The ability of the parties to obtain documents, witness statements and other discovery is generally more limited in arbitration than in court proceedings.
 - d. The arbitrators do not have to explain the reason(s) for their award unless, in an eligible case, a joint request for an explained decision has been submitted by all parties to the panel at least 20 days prior to the first scheduled hearing date.
 - e. The panel of arbitrators may include a minority of arbitrators who were or are affiliated with the securities industry.
 - f. The rules of some arbitration forums may impose time limits for bringing a claim in arbitration. In some cases, a claim that is ineligible for arbitration may be brought in court.

- g. The rules of the arbitration forum in which the claim is filed, and any amendments thereto, shall be incorporated into this Agreement.

ANY CONTROVERSY THAT SHALL ARISE BETWEEN THE ACCOUNT HOLDER AND TIAA, TIAA's AFFILIATES, PERSHING AND/OR THE CUSTODIAN (INCLUDING, BUT NOT LIMITED TO, CONTROVERSIES CONCERNING ANY ACCOUNT, ORDER OR TRANSACTION, OR THE CONTINUATION, PERFORMANCE OR BREACH OF THIS OR ANY OTHER AGREEMENT BETWEEN THE ACCOUNT HOLDER AND TIAA, TIAA's AFFILIATES, PERSHING AND/OR THE CUSTODIAN, WHETHER ENTERED INTO OR ARISING BEFORE, ON OR AFTER THIS ACCOUNT IS OPENED) SHALL BE SUBMITTED TO ARBITRATION BEFORE AND ONLY BEFORE THE FINANCIAL INDUSTRY REGULATORY AUTHORITY. ARBITRATION MUST BE COMMENCED BY SERVICE UPON THE OTHER PARTY OF A WRITTEN DEMAND FOR ARBITRATION OR A WRITTEN NOTICE OF INTENTION TO ARBITRATE, THEREIN INDICATING THE ARBITRATION TRIBUNAL. NO PERSON SHALL BRING PUTATIVE OR CERTIFIED CLASS ACTION TO ARBITRATION, NOR SEEK TO ENFORCE ANY PREDISPUTE ARBITRATION AGREEMENT AGAINST ANY PERSON WHO HAS INITIATED IN COURT A PUTATIVE CLASS ACTION; OR WHO IS A MEMBER OF A PUTATIVE CLASS WHO HAS NOT OPTED OUT OF THE CLASS WITH RESPECT TO ANY CLAIMS ENCOMPASSED BY THE PUTATIVE CLASS ACTION UNTIL: (i) THE CLASS CERTIFICATION IS DENIED; (ii) THE CLASS IS DECERTIFIED; OR (iii) THE CUSTOMER IS EXCLUDED FROM THE CLASS BY THE COURT. SUCH FORBEARANCE TO ENFORCE AN AGREEMENT TO ARBITRATE SHALL NOT CONSTITUTE A WAIVER OF ANY RIGHTS UNDER THIS AGREEMENT EXCEPT TO THE EXTENT STATED HEREIN. ANY ARBITRATION AWARD SHALL BE FINAL AND BINDING, AND ANY COURT HAVING JURISDICTION MAY ENTER JUDGMENT THEREON.

14. Unless otherwise specified in writing in connection with an advisory program, you acknowledge that you will be charged a commission on applicable transactions and other account-related fees including, but not limited to, service fees and Cash Solutions Account fees in accordance with the standard TIAA Commission and Fee Schedule, as in effect from time to time. TIAA receives remuneration in connection with the mutual funds that you invest in, including, but not limited to, money market funds and exchange traded funds, including 12b-1 fees and other compensation from Pershing, or a mutual fund's distributor, transfer agent or investment adviser for marketing, shareholder services and/or distribution services. Additionally, Teachers Advisors, Inc., the investment adviser to TIAA-CREF Funds, and the advisory entities of TIAA's wholly owned subsidiary, Nuveen Fund Advisors, LLC, the investment adviser to the Nuveen Funds, receive fees from the mutual funds for investment advisory and/or fund administration services. See the respective mutual funds' prospectus or statement of additional information for mutual fund payment information. With certain exceptions, TIAA limits the mutual funds available for purchase through your account to mutual funds, or share classes of a mutual fund, that include a minimum level of compensation to TIAA. In some cases, TIAA makes available for purchase multiple share classes of mutual funds, including multiple share classes of the Nuveen Funds and TIAA-CREF Funds. However, not all share classes of all mutual funds may be available for purchase, including in some cases, the lowest cost share classes of mutual funds. We only provide mutual funds that are available through Pershing and where we have an agreement with the mutual fund family to offer their mutual funds. These agreements do not always include access to all share classes. Mutual fund purchases are subject to the initial and subsequent minimum investment amounts as set forth in the mutual funds' prospectuses. You may also be able to purchase other share classes of the mutual funds from the mutual funds directly or through other providers. The mutual funds available through the Platform, including available share classes of particular mutual funds, may change over time at TIAA's discretion. The fees charged with respect to any mutual fund classes that are now or in the future are made available through the Platform may also change over time at TIAA's discretion or by the mutual fund itself. For more information on how TIAA gets paid for its products and services, please refer to our "Regulation Best Interest-Form CRS" located at the bottom of the home page of our website at https://www.tiaa.org/public/pdf/support/regbi/TIAA_FormCRS.pdf.
15. TIAA may suspend or terminate your Account at any time, for any reason and without prior notice to you. If you do not fund your Account within 30 days of Account opening or your account remains unfunded and inactive (no statement is generated) during any three-month consecutive period, TIAA reserves the right to close your Account without prior notice to you. Once your account is closed, for any reason, TIAA Brokerage reserves the right to reject any new account application submitted by you or on your behalf. In addition, if you maintain a small balance in your Account (for example, \$100 or less), during any three-month consecutive period, TIAA reserves the right to close your Account without prior notice to you. A check will be mailed to you after your account is closed. You shall have 30 days from receiving notice of termination of your Account to transfer all holdings from within your Account to another broker/dealer of your choosing. Should you fail to complete this transfer within 30 days, TIAA may liquidate all holdings within your Account and mail you a check for any proceeds. This may result in a taxable event. In the event your Account is liquidated, you agree to be liable for any resulting losses and costs incurred by TIAA. You may close your Account at any time by giving TIAA notice.

16. You acknowledge that, at the time you place a trade, you are solely responsible for ensuring that you have sufficient funds in your Account to cover your purchase. You also acknowledge that TIAA may review, reject, cancel or modify any securities transactions that you have entered at any time, for any reason and without prior notice to you. You understand that TIAA Brokerage may review, reject, cancel or modify any securities transaction, without prior notification, including where after three instances there are insufficient funds to cover the transaction(s).
17. You acknowledge that you will pay in full for securities you purchase by the settlement date. For transactions not paid for by the settlement date, TIAA shall have the right, without notice to you, to sell the securities purchased.
18. You authorize TIAA to accept your oral or electronic instructions for the purchase and sale of securities. You acknowledge that such instructions must be placed through designated TIAA channels. TIAA will not accept orders or instructions sent via electronic or postal mail (including, but not limited to, U.S. mail or overnight delivery).
19. When you change any instruction on a limit order, you are responsible for any open order, and any actions by you that modify or impact an open order. If you fail to do so, you understand that you will be responsible for any loss, including applicable commission charges. You are responsible for knowing the status of your pending orders, and any duplication by you of a pending order will be considered authorized by you. You understand and acknowledge that all Good Till Canceled (GTC) orders entered will expire in 90 days.
20. You acknowledge that to deter frequent trading within mutual funds, a short-term redemption fee may be assessed against any transaction that results in mutual fund shares being held for less than six months. This fee is in addition to any short-term redemption fee or restriction the underlying mutual fund may independently assess against the same transaction. Each of TIAA, Pershing and/or Custodian reserves the right to restrict access to the purchase of mutual fund shares within any account deemed at their sole discretion to engage in excessive or abusive short-term trading patterns. Additionally, in the event Pershing or Custodian, as the case may be, is instructed by the issuer of a mutual fund to restrict your access to such mutual fund's shares, such a restriction may remain in place until Pershing or Custodian receives notice from the issuer to remove the restriction.
21. You agree that TIAA, Pershing and or Custodian may place trading, disbursement or other full or partial restrictions on your account as deemed necessary, including but not limited to, the following circumstances: at the request of a security issuer, pursuant to a court order, tax levy, or garnishment; at the request of a government agency or law enforcement authority; in the event that your account is restricted (including, but not limited to, trading or trade-related violations, or termination of custodianship at the age of termination); in the event that a deposit has not yet settled; or in the event of a dispute between joint tenants. You agree to allow TIAA, Pershing or Custodian to liquidate securities if such securities are no longer eligible for the account (i.e. if a mutual fund is converted to an exchange traded fund and exchange traded funds are not eligible investments for the account or any leveraged or inverse exchange traded product (ETP)). Any proceeds from the liquidation would be deposited into the sweep product. You agree to abide by any such restriction and not to initiate trades or transactions which would violate the restriction. You agree to allow us to liquidate securities in your account to satisfy any request by the security issuer, court order, garnishment, tax levy, or other legal obligation imposed by a court or government agency. You agree not to hold TIAA, Pershing or Custodian liable for any trading losses, lost profits, tax obligation, or other damages resulting from liquidations or trading or disbursement restrictions imposed on your account in connection with a court order, tax levy, garnishment or other legal proceeding.
22. You understand that "penny stocks" (generally defined as any equity security priced below \$5 a share) are generally considered high-risk investments and should be purchased purely for speculation. You acknowledge that any order you place for penny stocks was not solicited by TIAA and was solely your decision.
23. If at any time you shall enter into any transaction for the purchase or resale of an option contract, you hereby agree to abide by the rules of any national securities association, registered securities exchange or clearing organization applicable to the trading of option contracts and, acting alone or in concert, will not violate the position or exercise limitation rules of any such association or exchange or of the Options Clearing Corporation or other clearing organization.
24. Exercise assignment notices for options contracts are allocated among short positions pursuant to a procedure that randomly selects from all short options positions, including positions established on the day of the assignment, those contracts that are subject to exercise. A more detailed description of this random allocation procedure is available on request. All short options positions are liable for assignment at any time.

25. Some account types may permit trading in a limited range of securities (e.g., mutual funds) and you acknowledge that you must follow TIAA procedures to obtain expanded trading privileges for such accounts. TIAA, Pershing and/or Custodian, in their sole discretion, may eliminate or restrict your ability to purchase particular securities, investments or other property due to volatility or other factors. I acknowledge that I have reviewed and agree to the terms outlined within the Fractional Share Disclosure located at www.tiaa.org/public/pdf/f/Fractional_Share_Disclosure.pdf.
26. You acknowledge that TIAA will send all communications to you at the mailing address you provided on your Account Application, or at such other address, as you may subsequently provide to TIAA in writing, and that all communications so sent in writing shall be deemed delivered, whether actually received or not.
27. You acknowledge that federal law requires that TIAA verify your identity by obtaining, among other information, your name, date of birth, address and government-issued identification number before opening your Account. This information is necessary to help the government fight the funding of terrorism and money laundering activities. TIAA may gather and verify this information with respect to any other person authorized to effect transactions in your Account. For certain entities, such as trusts, estates, corporations, partnerships or other organizations, TIAA may require additional identifying documentation. TIAA may restrict and/or close your Account if TIAA cannot verify this information. TIAA will not be responsible for any loss, costs and/or expenses resulting from your failure to provide this information, or from any related restriction or closing of your Account.
28. You authorize us to exchange credit information about you and your Account with others. As required by law, you are notified that any negative credit report reflecting on your credit record may be submitted to a credit reporting agency if you fail to fulfill the terms of your credit obligations. We may request a credit report on you, and upon request, we will state the name and address of the consumer reporting agency that furnished it. If we extend, update, review or renew your credit, we may request a new credit report without notifying you.
29. You acknowledge that any person acting as a trustee, Custodian or fiduciary for your Account is liable for all activity within the Account. TIAA will not review any action or inaction taken by a trustee, Custodian or fiduciary with respect to your Account. You agree to indemnify and hold harmless TIAA, its directors, employees, agents, affiliates and assigns from and against any and all losses, claims or financial obligations (including reasonable attorney's fees) that may arise from any act or omission it may suffer from the activity of any trustee, Custodian or fiduciary you appoint with respect to your Account.
30. You acknowledge that where you provide TIAA with written notice that an unaffiliated third-party advisor has discretionary authority over your Account, TIAA and its affiliates bear no liability or responsibility for any action taken by the third-party advisor. TIAA may rely and act upon any direction given by the third-party advisor, unless and until TIAA receives written notice from you revoking the third-party advisor's discretionary authority. You are responsible for confirming that such written revocation has been received and processed. You agree to indemnify and hold harmless TIAA, its directors, employees, agents, affiliates and assigns from and against any and all losses, claims or financial obligations (including reasonable attorney's fees) it may suffer from the activity of any unaffiliated third-party advisor you appoint with respect to your Account.
31. You understand that the Internal Revenue Service ("IRS") generally requires TIAA to report annually, on Form 1099-B (the "1099-B Annual Information Report"), any gross proceeds you receive from the sale of securities, your "cost basis" for securities sold, whether any gain or loss on a security is long term or short term, and whether any reported loss is disallowed due to the application of wash sale rules.
32. In order to calculate the gain or loss on the sale of a covered security, a tax lot relief method (also called a cost accounting method) must be selected. A tax lot relief method is a way of computing the realized gain or loss for an asset sold in a taxable transaction. It determines which lot of a security, as well as its associated cost basis and the holding period, is used in computing the gain or loss. TIAA's default tax lot relief method is First In, First Out ("FIFO"). You should consult with your personal tax advisor or financial planner to determine your specific reporting requirements and which tax lot relief method makes sense for you. To make a change to TIAA's default method, you must select a different method by submitting your request in writing to TIAA. All cost basis identification methods, including specific lot selection, must be made prior to the settlement date of your transaction. TIAA and its affiliates shall have no liability for any damages you may incur as a result of (i) TIAA providing the required 1099-B Annual Information Report to the IRS, or (ii) any differences in the cost basis reported by TIAA to the IRS and your actual adjusted cost basis.

33. TIAA, Pershing and/or Custodian may charge certain fees, including an annual fee, to your Account for the financial services provided to you under this Agreement. Your Account may also incur service charges based upon Account activity, items returned unpaid, stop-payment orders, garnishments, levies, copies or images of cancelled checks or for other Account services related to your Account. The fees and charges are set forth in the Commission and Fee Schedule at the end of this Agreement, and they are subject to change with notice or advance notice provided to you only if required by applicable law. You agree to repay TIAA, Pershing and/or Custodian all of their respective expenses, including attorneys' fees and legal expenses, to collect money you owe to Pershing, Custodian, Administrator, Bank, Check Free and/or TIAA because of your Account or for any dispute relating to your Account.
34. All of your securities and other property in any Account (margin or cash) in which you have an interest or which at any time are in your possession or under your control other than retirement Accounts, such as IRAs, shall be subject to a lien for the discharge of any and all indebtedness or any other obligations you may have to TIAA. Securities and other property held in retirement accounts, such as IRAs, are not subject to this lien, and are not used as security for the payment of your obligations or indebtedness for other Accounts (cash or margin) that you maintain with TIAA. In enforcing the lien, TIAA may, at its sole discretion, determine which securities and other property held in your Account are to be sold or which contracts are to be closed, except where prohibited by law.
35. TIAA may also transfer securities or other property from any of your Accounts, whether individual or joint, to any of your other Accounts in order to satisfy deficiencies in any of your Accounts, except where prohibited by law. You grant TIAA the right of set-off in satisfaction of any debt in your Account, except where prohibited by law. You agree to pay any costs or expenses incurred by TIAA, including reasonable attorney's fees, that result from your failure to properly settle any securities transactions or pay any debt, or otherwise satisfy your obligations under this Agreement. You acknowledge that your Account may be subject to interest on any debit balances resulting from your failure to make payment in full for securities purchased from proceeds of sales paid prior to settlement date, or for other charges that may be made to the Accounts.
36. You acknowledge that TIAA may, at its discretion, allow certain holdings and/or positions not held in custody by Pershing to be reflected on your Account brokerage statement. Where TIAA permits this, TIAA reports these held-away holdings and/or positions based solely upon information provided by a third party. TIAA is not responsible for the accuracy of any information regarding held-away holdings and/or positions, and does not verify or use a third party to verify the accuracy of such holdings and/or positions. In connection with annuities sold to you through TIAA or TIAA Insurance Agency that are reflected on your Account brokerage statement but not held in custody by Pershing, TIAA and TIAA Insurance Agency receive remuneration from issuers of the annuities, including commissions.
37. Your Account includes a Sweep Program feature which automatically transfers available uninvested cash balances in your Account at the end of each Business Day to a bank sweep deposit account or money market mutual fund (each a "TIAA Sweep Product" and together the "TIAA Sweep Program") and facilitates the redemption of available shares of any such money market funds or the transfer of available cash balances from any such bank sweep deposit accounts to your Account to cover purchases of securities and other debits in your Account. Available TIAA Sweep Products vary based on account type. You direct us to use the TIAA Sweep Product indicated on your Account Application as the TIAA Sweep Product for your Account and, if you fail to indicate a TIAA Sweep Product, you direct us to use the default TIAA Sweep Product indicated therein. If your account type includes only one TIAA Sweep Product, you acknowledge that the TIAA Sweep Product set forth in the Account Application will serve as the sweep option in which all available uninvested cash balances in your Account will be allocated at the end of each Business Day. Different TIAA Sweep Products may have different rates of return and different terms and conditions, including, but not limited to, requiring minimum cash balances in your Account before such balances may be swept to a TIAA Sweep Product. Money market mutual funds are securities that are registered with the U.S. Securities and Exchange Commission ("SEC") under the Investment Company Act of 1940 and the Securities Act of 1933. Although money market funds attempt to maintain a stable net asset value of \$1 per share, there is no guarantee that the fund will in fact maintain a \$1 per share stable net asset value. Money market funds are not insured by the Federal Deposit Insurance Corporation ("FDIC"). Money market funds are, however, securities subject to protection by the Securities Investor Protection Corporation ("SIPC") in the event of insolvency of Pershing, LLC as the brokerage firm holding your Account and cash or securities owed to you. SIPC is a non-profit member corporation funded primarily by member securities brokerage firms registered with the SEC, which protects customers up to certain limits in the event of the failure of a brokerage firm where cash and securities are owed to customers. See the TIAA Brokerage SIPC Asset Protection Guide for more information. SIPC does not protect against loss due to market fluctuation or failure of the issuer of a money market fund. More specific information about a particular money market mutual fund, including applicable fund restrictions, fees and

expenses and other important information, can be found in the fund's prospectus. TIAA Sweep Product options are deposit accounts held at one or more banks. Deposit accounts pay interest on deposits pursuant to the terms and conditions in the disclosure document for the applicable TIAA Sweep Product. Interest rates may fluctuate and may vary among banks. Deposit accounts are not subject to SIPC protection. They are subject to FDIC insurance up to applicable limits. FDIC insurance protects against loss of deposit amounts in the event the bank holding the deposits fails. More specific information about particular TIAA Sweep Products, including applicable FDIC insurance limits, interest amounts and other important information can be found in the applicable TIAA Sweep Products disclosure document. Prospectuses or similar disclosure documents for the Money Market Mutual Fund Sweep Product option(s) available for your Account are available online at <https://www.tiaa.org/public/invest/financial-products/brokerage-accounts/interest-rate-disclosure> or by calling **800-842-2252**. You agree to review these disclosure documents prior to opening your Account. TIAA may change the terms and conditions of the TIAA Sweep Program and the TIAA Sweep Product options available for your Account, at its sole discretion. TIAA will provide you with written notice in advance of adding, changing or deleting TIAA Sweep Product options for your Account or making other changes to the TIAA Sweep Program to the extent required by applicable law. TIAA may receive 12b-1 and similar service fee payments from TIAA Sweep Products. Please consult the prospectus or similar disclosure document for each TIAA Sweep Product for more information concerning such fees. TIAA Brokerage and the banks that participate in the TIAA Sweep Product are separate companies. The program bank(s) holds deposits in connection with the TIAA Bank Sweep Product options described in Paragraph 38 below and in the TIAA Sweep Product Terms and Conditions. For the TIAA Brokerage Sweep Product, pursuant to an agreement between TIAA Brokerage and the Cash Sweep Bank, the Cash Sweep Bank pays TIAA Brokerage an asset-based fee based on the amount of cash from self-directed accounts that is swept to the Bank.

- 38.** As set forth in Paragraph 37 above, TIAA Sweep Product options vary by account type. The following paragraphs apply to account types with the TIAA Brokerage or TIAA Managed Sweep Account options or the Money Market Mutual Fund Sweep options.

The TIAA Sweep Product (FDIC-Insured). The following describes the TIAA Sweep Product option, if your Account Application indicates that the TIAA Sweep Product for your Account is the TIAA Brokerage or TIAA Managed Sweep Account; if you have selected the TIAA Sweep Product as your Sweep Product; if you have failed to select a Sweep Product on your Account Application and the TIAA Sweep Product is the default sweep product for the account; or if TIAA has notified you that TIAA is replacing the existing sweep product for your Account with the TIAA Sweep Product. TIAA Managed Sweep with generally pay a higher rate of interest than TIAA Brokerage Sweep. The TIAA Sweep Product comprises two separate Sweep Products used in combination: (1) the TIAA Brokerage Sweep Product (for Self-Directed accounts) or TIAA Managed Sweep (for TIAA Personal Portfolio and TIAA Portfolio Advisor accounts) which automatically sweeps eligible cash balances in an Account up to the Maximum Deposit Amount (defined below) into interest-bearing deposit accounts at the cash sweep bank as indicated within the TIAA Sweep Terms and Conditions; and (2) the Liquid Insured Deposits ("LIDs Overflow") Sweep Product which is used as an overflow Sweep Product to automatically sweep eligible cash balances in excess of the Maximum Deposit Amount into interest-bearing deposit accounts with participating banks unaffiliated with TIAA ("LIDs Overflow banks"). The TIAA Sweep Product will serve as the primary Sweep Product for eligible cash balances in an Account up to a maximum deposit amount set by the cash sweep bank. The Maximum Deposit Amount for an Account is specified within the TIAA Sweep Terms and Conditions and is subject to change with notice to you. Interest that accumulates in your account may cause your balance to exceed the Maximum Deposit Amount; however, in no event will the balance exceed the then-current FDIC insurance limits for deposit amounts held at a bank in the same right and capacity. The LIDs Overflow Sweep Product will be used as an overflow sweep for eligible cash deposits in an Account which exceeds the Maximum Deposit Amount ("Excess Balances") plus any interest accrued. Only Excess Balances in an Account are eligible to use the LIDs Overflow Sweep Product. By way of example, if an Account holds \$300,000 in eligible cash balances, the first \$248,500 will be automatically swept into interest-bearing deposit accounts with the cash sweep bank through the TIAA Sweep Product. The remaining \$51,500 in eligible cash balances will be automatically swept into interest-bearing accounts with participating program banks unaffiliated with TIAA through the LIDs Overflow Sweep Product. By way of further example, if the Account instead holds \$248,500 or less in eligible cash balances, such eligible cash balances will be automatically swept into interest-bearing deposit accounts with the cash sweep bank through the TIAA Sweep Product. In the event there is insufficient availability of Program Banks to fully allocate your balance or you have a balance in excess of the program limits, cash will not be deposited in the Sweep Products and will remain as uninvested cash within your account. While uninvested cash is covered by SIPC, it does not earn a rate of return nor is it covered by FDIC insurance. Please review the separate disclosure documents for the TIAA Sweep Product and the LIDs Overflow Sweep Product carefully.

It is your sole responsibility to monitor the total balances you have across your accounts with the banks that participate in the TIAA Sweep Program to ensure that your deposit amounts held at any bank in the same right and capacity, directly or indirectly (with the program bank(s) or through your account), do not exceed \$250,000, which currently is the maximum amount eligible for FDIC insurance coverage for a single bank. Amounts you hold at any bank, including a LIDS Overflow program bank, in excess of \$250,000 will not receive FDIC insurance coverage. For example, if you have a deposit account and a certificate of deposit ("CD") with the same bank, the aggregate dollar amount of the deposit account and the CD including accrued interest in excess of \$250,000 will not be FDIC-insured. A list of participating LIDS Overflow Program banks can be viewed online by going to <https://www.tiaa.org/public/invest/financial-products/brokerage-accounts/interest-rate-disclosure> or by contacting TIAA for a written copy. Once you have investment within the LIDS Overflow sweep, you may opt out of having funds swept to a participating LIDS bank by contacting us at 800-842-2252 weekdays, 8 a.m. to 7 p.m. (ET); a representative can take such instructions over the phone.

Other Sweep Options for Self-Directed Accounts. TIAA may make the Liquid Insured Deposits Overflow Sweep Product or Money Market Fund Sweeps available as the primary sweep on your account (i.e., not in combination with the TIAA Brokerage or TIAA Managed Sweep). TIAA may change this option by replacing it with the TIAA Sweep Product described above or otherwise adding or deleting sweep options. TIAA will provide prior written notice to such Account holders as set forth in Paragraph 37 above prior to making any such changes. When selecting LIDS Overflow as the primary sweep on your account and you have a cash balance in excess of the LIDS Overflow FDIC limits; cash will be swept automatically into a secondary default money market mutual fund cash sweep as determined by the TIAA Sweep Program.

You are able to see the available sweeps by going to the Brokerage Interest Rate Disclosure page <https://www.tiaa.org/public/invest/financial-products/brokerage-accounts/interest-rate-disclosure>. Not all sweeps are available in all accounts.

39. You acknowledge TIAA is obligated by federal securities laws to provide your name, address and holdings information to issuers of those securities upon request, unless you instruct TIAA in writing not to do so.
40. For the parties' mutual protection, you understand, agree and expressly consent to our electronic recordation of any of your telephone conversations with us and to our monitoring of your electronic communications with us, including, but not limited to, email and facsimile transmission.
41. You acknowledge receipt of the TIAA Privacy Notices and TIAA Trust, N.A., Privacy Notice, when applicable.
42. Securities which are held for your Account and which are in "street name," or are being held by a securities depository, are commingled with the same securities being held for other customers of TIAA and for Pershing's own customers. Your ownership of these securities is reflected in Pershing's records. You have the right at any time to require delivery to you of any such securities that are fully paid for or are in excess of margin requirements. The terms of many bonds allow the issuer to partially redeem or "call" the issue prior to maturity date. Certain preferred stocks are also subject to being called by the issuer. Whenever any such security being held by Pershing is partially "called," Pershing will determine through a random selection procedure as prescribed by the New York Stock Exchange rules, the ownership of the securities to be submitted for redemption. In the event that such securities owned by you are selected and redeemed, your Account will be credited with the proceeds. Should you not wish to be subject to this random selection process, you must instruct TIAA to have Pershing deliver your securities to you. Delivery will be effected provided, of course, that your position is unencumbered or had not already been called by the issuer as described, prior to receipt by Pershing of your instructions. The probability of one of your securities being called is the same whether they are held by you or by Pershing for you.
43. You acknowledge that various federal and state laws or regulations may be applicable to transactions in your Account regarding restricted securities, as defined by applicable securities laws and regulations. It is your responsibility to notify TIAA if your Account contains restricted securities and to ensure that any transaction you effect will comply with all applicable laws and regulations. You understand that transactions in restricted securities may take longer to process than transactions involving unrestricted securities. Notwithstanding the foregoing, TIAA may, at its sole discretion, refuse to permit restricted securities within your Account.
44. You acknowledge your responsibility to review your brokerage Account statements for accuracy and to notify TIAA, Pershing and/or Custodian within 30 days of receipt of any error or omission. If you fail to notify TIAA, Pershing

and/or Custodian of any error or omission within this time frame, your brokerage Account statement shall be presumed accurate. You acknowledge your responsibility to review all confirmation statements for accuracy and notify TIAA, Pershing and Custodian immediately of any error or omission. If your periodic customer statement indicates that securities were forwarded to you and you have not received them, you should notify TIAA or Pershing immediately. If notification is received within 120 days after the mailing date, as reflected on your periodic statement, replacement will be made free of charge. Thereafter, a fee for replacement may apply.

45. You acknowledge that if any provision or condition of this Agreement is held invalid or unenforceable for any reason by any court, or regulatory or self-regulatory agency or body, such provision or condition shall be fully severable, and this Agreement shall be enforced and construed as if such provision or condition had never comprised a part of this Agreement.
46. You acknowledge that this Agreement cannot be modified by conduct and/or the failure of TIAA, Pershing and/or Custodian at any time to enforce its rights hereunder to the greatest extent permitted by law, and shall not be deemed to waive, modify or relax any of the rights granted to TIAA, Pershing and/or Custodian herein, including any right to deal with collateral on all loans advanced to you.
47. You acknowledge that this Agreement constitutes the full and entire understanding between the parties with respect to the provisions herein, and that there are no oral or other agreements in conflict herewith. You acknowledge that each of TIAA, Pershing and/or Custodian reserves the right to amend this Agreement, by modifying or rescinding any of its existing provisions or by adding any new provision at any time upon written notice to you on your brokerage Account statement(s), trade confirmation(s), or such other written or electronic notification, including, but not limited to, posting notice of such amendment(s) and/or the amended Agreement on the TIAA Brokerage website. The amended Agreement will be effective as of the date established by TIAA, Pershing and/or Custodian (the "Effective Date"). You agree that any future amendments made to the Agreement shall apply to your Account and to any subsequent Accounts you ask TIAA to establish for you in the future. The use of your Account after the Effective Date of the amendment(s) shall constitute your acknowledgment and agreement to be bound thereby. You are responsible for regularly checking for updates. You understand additional restrictions may apply to the brokerage services provided hereunder and additional documentation may be required by applicable law or TIAA, Pershing and/or Custodian's policies and procedures. You agree to comply with any such restrictions and promptly provide any documents or information requested.
48. This Agreement or any subsequently modified agreement shall cover all aspects of the Account(s) you may open or reopen with Pershing through TIAA, including, but not limited to, Account(s) with brokerage, Check-writing privileges, Card services and associated ACH Transactions and BillSuite Services, and shall inure to the benefit of each of our successors whether by merger, consolidation or otherwise, and assigns, and each of us may transfer your Account to our respective successors and assigns, and this Agreement shall be binding upon your heirs, executors, administrators, successors and assigns.
49. TIAA Brokerage and Pershing, in their capacity as clearing firm, may make the Account communications available in an electronic form instead of mailing them in paper form; according terms and conditions will be stated within the Electronic Delivery Terms and Conditions.
50. You acknowledge that telephone, Internet or any other electronic system, and software provided for use in accessing your Account information, is used at your sole risk and that neither TIAA, its vendors providing data, information or other services, including, but not limited to, any exchange (collectively, "service providers"), warrant that the service will be uninterrupted or error-free and that neither TIAA nor any such service providers will make any warranty as to the results that may be obtained from any of these systems. You further acknowledge that telephone, Internet and other electronic systems are provided on an as-is and as-available basis, without warranties of any kind, either expressed or implied, including, without limitation, those of merchantability and fitness for a particular purpose, other than those warranties which are implied by and incapable of exclusion, restriction or modification under applicable laws and regulations. None of TIAA, any service provider, Pershing or Custodian will be liable in any way to you or any other person for any inaccuracy, error or delay in, or omission of, any data, information or message, or the transmission or delivery of any data, information or message, or any loss or damages arising from or occasioned by: any inaccuracy, error, delay or omission, nonperformance, interruption in data due to neglect or omission by any service provider, any "force majeure" (i.e., loss caused directly or indirectly by flood, fire, war, terrorism, civil unrest, strikes, natural disaster, extraordinary weather conditions, earthquake or other acts of God, government restrictions or actions, interruptions of communications, exchanges or market rulings, suspension of trading or other conditions beyond TIAA's control, failure, or equipment or software malfunction) or any other cause beyond the reasonable control of any service provider.

51. You acknowledge that complaints regarding your Account are to be mailed to TIAA Brokerage, P.O. Box 1280, Charlotte, North Carolina 28201, or you may call **800-842-2252**.
52. The Agreement, all transactions made in your Account and all matters arising in connection with the Agreement will be governed by, and construed and enforced in accordance with, the laws of the State of New York (regardless of the choice of law rules thereof), provided, however, that the optional Cash Solutions Account Banking Services Agreement and the BillSuite™ Agreement set forth in the Cash Solutions Account Terms & Conditions and Part VI below will be governed by the laws of such state(s) as indicated in Cash Solutions Account Terms & Conditions.
53. You agree that TIAA may assign this Agreement (in part or in full, and including assigning the role of clearing broker and custodian for the Account) to any third party or any subsidiary, affiliate or successor of TIAA. You hereby delegate and grant to TIAA the power and authority to make these changes on your behalf. TIAA will provide you with at least 30 days prior written notice of such assignment and you will be deemed to have consented to the assignment if you conduct any transactions in your Account or keep your Account open subsequent to receiving such a notice.

II. Trusted Contacts

TIAA is committed to helping you protect your account(s) and information. One way to protect your interests is to appoint a Trusted Contact. A Trusted Contact is someone over the age of 18 whom you know and trust. This person will serve as a point of contact should we have questions concerning your overall well-being, whereabouts, or if we suspect you may be the victim of fraud or exploitation. The individual(s) you select may not take any action on your account and will not replace or affect existing powers of attorney. You should notify those you appoint as Trusted Contacts.

To appoint your Trusted Contact(s), log into your account at TIAA.org, click *Profile* at the top of the page. Within *More profile options*, click *Trusted Contacts* and complete the required Trusted Contact information, or contact us at **800-842-2252** to request a form to name a Trusted Contact.

Please note that TIAA, and its affiliates and representatives are authorized to contact the Trusted Contact(s) and disclose information about your account(s) to address possible financial exploitation, to confirm the specifics of your current contact information, health status, or the identity of any legal guardian, executor, trustee, or holder of a power of attorney, or as otherwise permitted under FINRA Rule 2165. Except as is required by FINRA Rule 2165, TIAA is under no obligation to interact with Trusted Contact(s).

III. Role of Pershing

TIAA retained Pershing to act as a clearing broker for TIAA and provide certain recordkeeping and operational services, which may include execution and settlement of securities transactions, custody of securities and cash balances, and extension of credit on margin transactions. These services are provided under a written Clearing Agreement between Pershing and TIAA. The respective roles of Pershing and TIAA, as defined within the Clearing Agreement, are outlined below.

1. In general, Pershing is only responsible for those services provided at the request or direction of TIAA as contemplated by the Clearing Agreement.
2. Pershing will create computer-based account records on the Account holder's behalf in such name(s) and with such address(es) as TIAA directs.
3. Pershing will process orders for the purchase, sale or transfer of securities for the Account as TIAA directs. Pershing is not obligated to accept orders for securities transactions directly from the Account holder and will do so only in exceptional circumstances.
4. Pershing will receive and deliver cash and securities for the Account and will record such receipts and deliveries according to information provided either by TIAA or directly, in writing, by the Account holder.
5. Pershing will hold in custody securities and cash received for the Account, and will collect and disburse dividends and interest and process reorganization and voting instructions with respect to securities held in custody. Pershing is responsible for the custody of cash and securities only after it comes into Pershing's physical possession or control.

6. Pershing will prepare and transmit to the Account holder or provide facilities to TIAA for the preparation and transmission of confirmations of trades. Pershing will prepare and transmit to the Account holder periodic Account statements summarizing the transaction history.
7. If TIAA opens a Margin Account for an Account holder, Pershing will loan the Account holder money for the purpose of purchasing or holding securities subject to the terms of Pershing's written Margin Agreement as set forth in Section IV below or in a separate document and Pershing margin policies and applicable margin regulations. TIAA is responsible for obtaining the initial margin as required by Regulation T. Thereafter, Pershing will calculate the amount of maintenance margin required. Pershing will advise the Account holder of those requirements, usually through TIAA. Pershing will also calculate the interest charged on the debit balance, if any.
8. In connection with all of the functions that Pershing performs, Pershing maintains the books and records required by law and by business practice. Pershing will provide TIAA with written reports of all transactions processed for the Account to enable it to carry out its responsibilities under the Clearing Agreement. Pershing will assist the Account holder and TIAA with any discrepancies or errors that may occur in the processing of transactions for the Account.
9. PERSHING DOES NOT CONTROL, AUDIT OR OTHERWISE SUPERVISE THE ACTIVITIES OF TIAA OR ITS EMPLOYEES. PERSHING DOES NOT VERIFY INFORMATION PROVIDED BY TIAA REGARDING THE ACCOUNT OR TRANSACTIONS PROCESSED FOR THE ACCOUNT NOR UNDERTAKE RESPONSIBILITY FOR REVIEWING THE APPROPRIATENESS OF TRANSACTIONS ENTERED BY TIAA ON THE ACCOUNT HOLDER'S BEHALF. PERSHING MAY ACCEPT FROM TIAA, WITHOUT INQUIRY OR INVESTIGATION, (I) ORDERS FOR THE PURCHASE OR SALE OF SECURITIES AND OTHER PROPERTY ON MARGIN OR OTHERWISE, AND (II) OTHER INSTRUCTIONS CONCERNING YOUR ACCOUNTS. NOTICES TO YOU CONCERNING MARGIN REQUIREMENTS OR OTHER MATTERS RELATED TO YOU WILL GO THROUGH TIAA; HOWEVER, DIRECT CONTACT BY PERSHING MAY OCCUR IF MARKET CONDITIONS, TIME CONSTRAINTS OR OTHER CIRCUMSTANCES REQUIRE IT. PERSHING SHALL NOT BE RESPONSIBLE OR LIABLE FOR ANY ACTS OR OMISSIONS BY TIAA OR ITS EMPLOYEES. YOU UNDERSTAND THAT PERSHING PROVIDES NO INVESTMENT ADVICE NOR DOES PERSHING GIVE ADVICE OR OFFER ANY OPINION WITH RESPECT TO THE SUITABILITY OF ANY TRANSACTION OR ORDER. YOU UNDERSTAND THAT TIAA IS NOT ACTING AS THE AGENT OF PERSHING AND YOU AGREE THAT YOU WILL IN NO WAY HOLD PERSHING, ITS OTHER DIVISIONS, AND ITS OFFICERS, DIRECTORS AND AGENTS LIABLE FOR ANY TRADING LOSSES INCURRED BY YOU. YOU AUTHORIZE PERSHING TO ACT AS YOUR AGENT TO PURCHASE AND REDEEM FOR YOUR ACCOUNT SHARES OF THE FUNDS, AS PREVIOUSLY DEFINED, AND YOU AGREE THAT YOU SHALL NOT HOLD PERSHING, ITS OTHER DIVISIONS, AFFILIATES, OFFICERS, DIRECTORS OR AGENTS LIABLE FOR ANY TRADING LOSSES INCURRED.
10. The Clearing Agreement does not encompass transactions in commodities futures contracts or investments other than marketable securities, which Pershing normally processes on recognized exchanges and over-the-counter markets.
11. In furnishing its services under the Clearing Agreement, Pershing may use and rely upon the services of clearing agencies, automatic data processing vendors, proxy processing, transfer agents, securities pricing services and other similar organizations.
12. This statement addresses the basic allocation of functions regarding the handling of the Account. It is not meant as a definitive enumeration of every possible circumstance, but only as a general disclosure.

IV. Margin Agreement

Approval of margin privileges is subject to review by TIAA. To apply for margin privileges, please complete a Margin application or contact a TIAA Brokerage representative for assistance. If you open such an Account with TIAA, you will execute and be bound by the terms and conditions of the Margin Agreement and Interest Rate Disclosure Pursuant to Section 10b-16 of the Securities and Exchange Act of 1934 with TIAA, Pershing or any other TIAA-designed clearing broker, as well as by the terms of this Agreement. If inconsistent, the Agreement with Pershing shall prevail.

V. Cash Solutions Account

An Account with Cash Solutions features consists of three parts: (a) a conventional brokerage Account which is either a cash or Margin Account, or both; (b) access to funds in the Account via Cards, Checks and ACH Transactions; and (c) a choice of Funds. Enrollment in the Cash Solutions feature is through an additional and separate application. The full terms, conditions and fee schedule can be reviewed within the Cash Solutions Account Terms and Conditions (www.tiaa.org/public/pdf/t/tiaa_brokerage_cash_solutions_account.pdf).

VI. Commission and fee schedule¹

Equities and Exchange-Traded Funds (ETFs)

(All commissions and fees are per transaction, unless otherwise indicated.)

	Online/mobile TIAA.org/brokerage	Client Service Assistance 800-842-2252
Equity and Transaction-Fee ETFs	No charge	\$55
No-Transaction-Fee (NTF) ETFs	<ul style="list-style-type: none"> • NTF-eligible ETFs will have a \$0.00 commission, regardless of order size or holding period. • Any ETF shares purchased prior to January 26, 2018, and now identified as an NTF ETF will still be charged a commission when the shares are sold, when placing the trade through Client Service Assistance. • A commission will be charged for NTF ETFs sold prior to settlement. • NTF-eligible ETFs should not be purchased on margin. If purchased on margin, the ETF is no longer NTF eligible. • NTF-eligible ETFs can be moved to margin after 30 days. 	
Equity notes	<ul style="list-style-type: none"> • Fees shown reflect stock prices greater than \$1 per share. Orders to buy shares priced under \$1, restricted shares, non-permitted Cannabis Related Business (CRB) securities, foreign securities, privately held securities, shares without a market price or no bid/ask will not be accepted. • Orders to sell shares priced under \$1 are handled via Client Service Assistance at the online commission rate, given above, based on eligibility. 	
Financial Transaction Tax (FTT) Ordinary and ADR	<p>All opening transactions in FTT-eligible companies from the following countries will be subject to the FTT tax rate:</p> <ul style="list-style-type: none"> • French FTT at a rate of 0.30% of the total transaction cost. • Italian FTT at a rate between 0.10% and 0.20% of the total transaction cost. • Spanish FTT at a rate of 0.20% of the total transaction cost. 	
ADR agent servicing fee	Fee will generally range from \$0.01 to \$0.03 per share. Amounts will differ by ADR. Please refer to the ADR prospectus for specific fee and other information.	
Financial Industry Regulatory Authority (FINRA) Trading Activity Fee (TAF)	Varies per transaction/security. Visit https://www.finra.org/rules-guidance/guidance/trading-activity-fee for the current rates.	

Securities and Exchange
Commission (SEC) Section 31 transaction fee Varies per transaction. Visit **SEC.gov** for the current rate.

Fixed income

(Bonds and CDs are available for purchase online. For assistance, call 800-842-2252.)

U.S. Treasury Securities

New issues (primary, at auction)	\$50 per transaction
Existing issues (secondary, already trading)	\$1 per \$1,000 face amount (\$50 minimum)

Other Fixed Income

Municipal Bonds, Government Agency Bonds, Unlisted (Over-the-counter, or OTC) Corporate Bonds, and Mortgage-backed Securities² \$50 + \$2 per bond

Certificates of Deposit – New Issues Purchase minimums of \$5,000, no commission (interest rate reflects issuing bank’s fee)

¹ Fees may not apply or may be different for managed accounts; some fees may be waived at the discretion of the Broker Dealer for managed accounts.

² TIAA may execute certain fixed-income transactions for your Account on either an agency or principal basis. If we execute on an agency basis, the commissions listed above will apply. If we execute on a principal basis, we will sell a fixed-income product to you (or buy it from you), which we contemporaneously purchase from (or sell to) a dealer. If so, the net compensation earned by TIAA will include a mark-up. If we sell a fixed-income product to you, the mark-up is the difference between the sales price to you and the price we pay to purchase the product from a dealer. If we buy a fixed-income product from you, the mark-up is the difference between the sales price to the dealer and the price we pay to purchase the security from you.

Options

(All commissions and fees are per transaction, unless otherwise indicated.)

	Online/mobile TIAA.org/brokerage	Client Service Assistance 800-842-2252
Commissions and fees	No charge	\$55 + \$2.50 per contract
Options exercise/assignment	\$25	\$25
Options regulatory fee	Varies by contract. Visit https://www.theocc.com for the current fee schedule.	

Mutual funds

No-Transaction-Fee (NTF) Funds	<ul style="list-style-type: none"> • Minimum initial investment for NTF mutual funds: The greater of either the listed amount in the fund's prospectus or \$500. Purchases below the stated minimum will be charged the appropriate transaction fee. • Additional investments of NTF funds: The greater of either the listed amount in the fund's prospectus or \$100. Transactions of NTF funds for amounts less than \$500 will be subject to the appropriate transaction fee. Systematic (automatic recurring or dollar cost averaging) orders are excluded. • Different minimums may apply for managed accounts. • Systematic (automatic recurring or dollar cost averaging) orders, no fee; minimum transaction of \$100. • Short-term redemption fee: \$50 minimum for shares held less than six months (waived for shares transferred from another brokerage firm or financial institution). Additional redemption fees may apply as set forth in each fund's prospectus.
Transaction-Fee (TF) Funds	<ul style="list-style-type: none"> • Transaction fee, regardless of order size: <ul style="list-style-type: none"> - \$50 per trade - \$35 per trade for customers that receive a financial planning solution from their Wealth Management Advisor. • Minimum initial investment for mutual funds: The greater of either the listed amount in the fund's prospectus or \$500. • Additional investments: The greater of either the listed amount in the fund's prospectus or \$100. • Different minimums apply for managed accounts. • Systematic (automatic recurring or dollar cost averaging) order, no fee; minimum transaction of \$100.

Account maintenance fees

(All fees are per transaction, unless otherwise indicated.)

Account research	\$20 per hour
ACH return fee	\$25
Alternate investment transaction/processing fee	\$50
Certificate cancellation fee for certificates deposited outside of the transfer agent	\$3 + (pass-through fee, varies by agent)
Custody/safekeeping fee for physical securities (Excludes ADRs held with domestic custodian bank)	\$10 per account, per position, per month

Direct registration system (DRS) incoming transfer fee – shares sent directly from some transfer agents	\$15 – \$20 (pass-through fee, varies by transfer agent)
Direct registration system (DRS) outgoing transfer fee – shares sent directly back to the transfer agent ²	\$30 per security, per account
Foreign account fee (Non-US address)	\$50 per year for each account that maintained a balance, position or had a form 1042-S reportable transaction
Foreign securities	Up to \$125 for each order (not applicable to American Depositary Receipts) + transaction fees and commission
Foreign security receive and deliver fee	\$75
Incoming account transfer/IRA termination/account closure fee	Varies by sender (pass-through fee)
International overnight check delivery fee	\$28
IRA termination fee ⁴	\$130
Margin extensions	\$15
NSF/return check deposit fee	\$25
Outgoing wired funds fee	\$25 (waived for account in an advisory program)
Overnight check delivery fee	\$12
Post-effective reorganizations—Voluntary	\$75
Reorganizations—Voluntary	\$25
Saturday delivery—overnight check delivery fee	\$18
Special product fee—Registered REITs	\$35 per position, charged at transfer and then annually
Special product fee—Unregistered REITs	\$125 per position, charged at transfer and then annually
Stop-payment order fee	\$15
Transfers of gifted securities or checks mailed regular delivery ³	No charge
Transfers—Accommodation ²	\$80 per transfer

Transfers—Automated Clearing House (ACH)	No charge
Transfers—GNMA, Restricted, Legal ³	\$140 per transfer
Transfers—Outgoing full account ³	\$50 per transfer, no charge for partial transfers
Transfers—Register, transfer and ship ³	\$80 per transfer, plus any third-party charges, including a DTCC charge of \$500
Unrelated Business Taxable Income (UBTI) Tax Return (IRS Form 990-T) Processing	\$200 per tax return filed

³Checks in the amount of \$250,000 or more for transfers will be sent via overnight delivery and a delivery fee of \$12 will be charged to the account.
⁴Termination fee does not apply to the TIAA IRA or Investment Solutions IRA Self-Directed brokerage account, or if the assets from a TIAA IRA account are transferred to a new or existing TIAA IRA account.

Foreign currency deposit fee “Free credit balance interest charge”
(Monthly rate subject to change. Call TIAA Brokerage for current rates.)

Currency	Rate for balance below daily exception balance	Daily exception balance	Rate for balance above daily exception
Swiss Franc (CHF)	2.00%	\$100,000	4.25%
Danish Krone (DKK)	1.40%	\$1,000,000	1.80%
Swedish Krona (SEK)	.85%	\$2,000,000	1.25%
Euro (EUR)	.80%	\$86,000	1.05%
Japanese Yen (JPY)	.40%	\$100,000,000	.65%
Norwegian Krone (NOK)	1.10%	N/A	N/A

Self-Directed Brokerage IRA Resource Checking
(All fees are per transaction, unless otherwise indicated.)

Copy of cancelled check	\$3.75 per copy
NSF/return check fee	\$25
Stop payment fee	\$25

Cash Solutions Account (CSA)

(All fees are per transaction, unless otherwise indicated.)

	Silver Tier	Gold Tier	Platinum Tier
Annual fee	\$25	\$95	\$145
ATM withdrawal fee Visa® or Plus® (PNC Bank or Allpoint® Network)	N/A	None	None
ATM out-of-network fee (ATM not on PNC Bank or Allpoint® Network)	N/A	None	None
ATM out-of-network surcharge fee ⁴ (charged by ATM owner not on PNC Bank or Allpoint® Network)	N/A	Various, Fee reimbursement up to \$5 monthly	Various, Fee reimbursement up to \$10 monthly
Bill payment through Billsuite	Free	Free	Free
Business style check reorder	\$50	\$50	\$50
Business style checks – initial order, includes binder	\$60	\$60	\$60
Business style checks – replacement binder	N/A	N/A	\$20
Cash advance fee (non-ATM)	N/A	.25% of transaction (\$2.50 minimum)	.25% of transaction (\$2.50 minimum)
Check reorder	\$15	\$10	Free
Copy of paid check online	None	None	None
Copy of paid checks or Visa® draft	\$3.75 per copy	\$3.75 per copy	\$3.75 per copy
CSA checks and debit card – overnight delivery	\$40	\$40	\$40
Foreign transaction fee (Visa® fee for transactions performed outside the U.S.)	N/A	1% of transaction	1% of transaction
Initial check order (includes checkbook cover, check register, deposit tickets and 40 checks)	Free	Free	Free
Letter with checking account information	None	None	None
Lost or stolen checkbook replacement	\$25	\$25	\$25
MobileWallet vendor additional transaction charges	N/A	None	None
Returned check or Automated Clearing House (ACH) Transaction (for any reason)	\$25	\$25	\$25
Stop payments (on checks)	\$25	\$25	Free

4. Surcharge may be imposed for ATM usage including transactions and balance inquiries.

Note: Silver Tier annual fee is waived for accounts that have \$25,000 or more in average month-end closing cash sweep balances.

Investment, insurance and annuity products are not FDIC insured, are not bank guaranteed, are not deposits, are not insured by any federal government agency, are not a condition to any banking service or activity, and may lose value.

TIAA Brokerage, a division of TIAA-CREF Individual & Institutional Services, LLC, reserves the right to change this fee and commission schedule at its discretion, subject to notification in accordance with applicable laws and regulations.

TIAA-CREF Individual & Institutional Services, LLC, Member FINRA and SIPC, distributes securities products. TIAA Brokerage, a division of TIAA-CREF Individual & Institutional Services, LLC, Member FINRA and SIPC, distributes securities. Brokerage accounts are carried by Pershing, LLC, a subsidiary of The Bank of New York Mellon Corporation, Member FINRA, NYSE, SIPC. Advisory services are provided by Advice & Planning Services, a division of TIAA-CREF Individual & Institutional Services, LLC, a registered investment adviser.

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A11456 (07/23)

TIAA Brokerage Account Customer Account Agreement
Effective May 2024



TIAA Brokerage Customer Account Agreement (Retail)

Brokerage accounts are provided by TIAA Brokerage, a division of TIAA-CREF Individual & Institutional Services, LLC, Member FINRA and SIPC, and are carried by Pershing LLC (“Pershing”), Member FINRA, NYSE, SIPC, a subsidiary of The Bank of New York Mellon Corporation.

I. General terms and conditions

By signing the TIAA Brokerage Account Application (“Account Application”), you agree to be bound by the following terms and conditions, as well as the terms and conditions set forth in Sections II to VI of this Agreement (collectively, with the Account Application, this “Agreement”).

If you are signing this Agreement in connection with a managed account advisory program with Advice & Planning Services, LLC (“APS”), a division of TIAA-CREF Individual & Institutional Services, LLC, you will not be bound by certain sections and provisions of this Agreement while enrolled in the program, including Margin Agreements, Options Contracts and Commission and Transaction Fees (related to trading directed by APS). For certain services that you request in connection with your managed account, you will be charged the applicable account maintenance fee in accordance with the Commission and Fee Schedule at the end of this Agreement. See your managed account advisory program’s disclosure brochure and advisory agreement for more information about your managed account and the associated fees. If management of your managed account is terminated in accordance with your managed account advisory program’s advisory agreement, and your assets are transferred to a brokerage account with TIAA Brokerage, you will be bound by all the terms and conditions of this Agreement.

1. “You,” “your” or “Account holder” refers to all of the individual(s) who sign the Account Application for individual and joint Accounts (defined below) and refers to the corporation, limited liability company, partnership, trust or other legal entity for corporate, limited liability company, partnership, trust or other legal entity Accounts.
2. “TIAA” refers to TIAA Brokerage, a division of TIAA-CREF Individual & Institutional Services, LLC. “Custodian” refers to the custodian or trustee, as applicable, of your Account. “Account” or “Accounts” refers to the cash or margin account opened in your name with custody maintained at Pershing.
3. If there is more than one Account holder, each joint Account holder’s obligations under this Agreement shall be joint and several (i.e., are the responsibility of each Account holder, both individually and jointly). Each joint Account holder has authority, acting individually and without notice to any other Account holder, to deal with TIAA as fully and completely as if the joint Account holder is the sole Account holder.
4. TIAA is authorized, but not obligated, to follow the instructions of any joint Account holder and to deliver funds, securities or other assets to any joint Account holder. TIAA is not responsible for determining the purpose or propriety of any instruction received from a joint Account holder or for the disposition of payments or deliveries among joint Account holders.
5. Any notice TIAA sends to one joint Account holder will be deemed notice to all joint Account holders. Any debts of a joint Account may be offset against any Accounts held individually by a joint Account holder.
6. You represent that you are of the age of majority and of legal capacity, and the information you have provided on your Account Application is accurate. You acknowledge that the Account is not for a foreign financial institution, private banking accounts or non-residents of the United States. You will notify TIAA of any change to the information provided on your Account Application within 30 days of such change.

7. You promptly will notify TIAA within 10 days if you become a director, 10% beneficial shareholder or an affiliate of a publicly traded company, or if you become a member firm or an employee of any securities exchange, or a self-regulatory organization or a corporation of which security exchange owns a majority of the capital stock.
8. You are responsible for determining the suitability of your Account transactions in light of your stated investment objectives and financial situation. TIAA has no responsibility for any such determination unless TIAA has otherwise so specifically agreed in writing in connection with an advisory program, or a TIAA representative has given advice directly to you that is clearly identified as a TIAA recommendation for you to buy, sell or hold a particular security or securities, or use a particular investment strategy, for your Account.
9. If TIAA makes such a recommendation, TIAA believes it is suitable for you at the time of the recommendation. TIAA has no ongoing duty to ensure the recommendation continues to be suitable for you. You have an affirmative duty to monitor for profits and losses in your Account and to modify your trading decisions accordingly. Furthermore, unless TIAA has otherwise specifically agreed in writing in connection with an advisory program, you acknowledge that: (a) TIAA does not have discretionary authority over your Account or an obligation to review or make recommendations for the investment of securities or cash in your Account; (b) you will rely on multiple sources of information in making investment decisions for your Account; (c) any information TIAA may provide will not serve as the primary basis for any investment decision you make or that is made on your behalf; and (d) TIAA does not provide investment advice or otherwise act as a "fiduciary" as that term is defined in the Employee Retirement Income Security Act of 1974, as amended, or Section 4975 of the Internal Revenue Code.
10. You acknowledge that TIAA offers many different Account types and you are responsible for selecting the type most appropriate for your needs. TIAA provides no sub accounting recordkeeping services or similar support for Accounts beneficially held by more than one owner.
11. TIAA may provide you with market data or research relating to securities and securities markets but does not guarantee the accuracy, completeness or timeliness of such information. Such market data or research is not personalized or in any way tailored to your personal financial circumstances or investment objectives, unless TIAA has otherwise so specifically agreed in writing in connection with an advisory program. You may be able to obtain research on such other mutual funds through other providers.
12. You understand that none of TIAA, Pershing and Custodian provide legal, tax or accounting advice and none of their employees are authorized to give any legal, tax or accounting advice, and you will not solicit or rely upon any such advice from TIAA, Pershing or the Custodian or their employees, whether in connection with transactions in or for your Account or otherwise.
13. You acknowledge this Agreement contains a pre-dispute arbitration clause. By signing an arbitration agreement, the parties agree as follows:
 - a. All parties to this Agreement are giving up the right to sue each other in court, including the right to a trial by jury, except as provided by the rules of the arbitration forum in which a claim is filed.
 - b. Arbitration awards generally are final and binding; a party's ability to have a court reverse or modify an arbitration award is very limited.
 - c. The ability of the parties to obtain documents, witness statements and other discovery generally is more limited in arbitration than in court proceedings.
 - d. The arbitrators do not have to explain the reason(s) for their award unless, in an eligible case, a joint request for an explained decision has been submitted to the panel by all parties, at least 20 days prior to the first scheduled hearing date.
 - e. The panel of arbitrators typically will include a minority of arbitrators who were or are affiliated with the securities industry.
 - f. The rules of some arbitration forums may impose time limits for bringing a claim in arbitration. In some cases, a claim that is ineligible for arbitration may be brought in court.

- g. The rules of the arbitration forum in which the claim is filed, and any amendments thereto, shall be incorporated into this Agreement.

ANY CONTROVERSY THAT SHALL ARISE BETWEEN THE ACCOUNT HOLDER AND TIAA, TIAA's AFFILIATES, PERSHING AND/OR THE CUSTODIAN (INCLUDING, BUT NOT LIMITED TO, CONTROVERSIES CONCERNING ANY ACCOUNT, ORDER OR TRANSACTION, OR THE CONTINUATION, PERFORMANCE OR BREACH OF THIS OR ANY OTHER AGREEMENT BETWEEN THE ACCOUNT HOLDER AND TIAA, TIAA's AFFILIATES, PERSHING AND/OR THE CUSTODIAN, WHETHER ENTERED INTO OR ARISING BEFORE, ON OR AFTER THIS ACCOUNT IS OPENED) SHALL BE SUBMITTED TO ARBITRATION BEFORE AND ONLY BEFORE THE FINANCIAL INDUSTRY REGULATORY AUTHORITY. ARBITRATION MUST BE COMMENCED BY SERVICE UPON THE OTHER PARTY OF A WRITTEN DEMAND FOR ARBITRATION OR A WRITTEN NOTICE OF INTENTION TO ARBITRATE, THEREIN INDICATING THE ARBITRATION TRIBUNAL. NO PERSON SHALL BRING A PUTATIVE OR CERTIFIED CLASS ACTION TO ARBITRATION, NOR SEEK TO ENFORCE ANY PREDISPUTE ARBITRATION AGREEMENT AGAINST ANY PERSON WHO HAS INITIATED IN COURT A PUTATIVE CLASS ACTION; OR WHO IS A MEMBER OF A PUTATIVE CLASS WHO HAS NOT OPTED OUT OF THE CLASS WITH RESPECT TO ANY CLAIMS ENCOMPASSED BY THE PUTATIVE CLASS ACTION UNTIL: (i) THE CLASS CERTIFICATION IS DENIED; (ii) THE CLASS IS DECERTIFIED; OR (iii) THE CUSTOMER IS EXCLUDED FROM THE CLASS BY THE COURT. SUCH FORBEARANCE TO ENFORCE AN AGREEMENT TO ARBITRATE SHALL NOT CONSTITUTE A WAIVER OF ANY RIGHTS UNDER THIS AGREEMENT EXCEPT TO THE EXTENT STATED HEREIN. ANY ARBITRATION AWARD SHALL BE FINAL AND BINDING, AND ANY COURT HAVING JURISDICTION MAY ENTER JUDGMENT THEREON.

14. Unless otherwise specified in writing in connection with an advisory program, you acknowledge that you will be charged a commission on applicable transactions and other Account-related fees including, but not limited to, service fees and Cash Solutions Account fees in accordance with the standard TIAA Commission and Fee Schedule, as in effect from time to time. TIAA receives remuneration in connection with the mutual funds that you invest in, including, but not limited to, money market funds and exchange traded funds, including 12b-1 fees and other compensation from Pershing, or a mutual fund's distributor, transfer agent or investment adviser for marketing, shareholder services and/or distribution services. Additionally, Teachers Advisors, LLC and the advisory entities of TIAA's wholly owned subsidiary, Nuveen Fund Advisors, LLC, the investment advisers to certain affiliated funds (the "Affiliated Funds"), receive fees from the mutual funds for investment advisory and/or fund administration services. See the respective mutual funds' prospectus or statement of additional information for mutual fund payment information. TIAA limits the mutual funds and share classes available through brokerage accounts. TIAA only provides mutual funds that are available through the clearing firm and where TIAA has an agreement with the fund family to offer their funds and waive sales loads. These agreements do not always include access to all share classes. Most of the mutual funds and their corresponding share classes available for purchase pay compensation to TIAA. However, TIAA also offers funds where no compensation is paid to TIAA. In some cases, TIAA makes available for purchase multiple share classes of mutual funds, including multiple share classes of the Affiliated Funds. However, not all share classes of all mutual funds may be available for purchase, including in some cases, the lowest cost share classes of mutual funds. Mutual fund purchases are subject to the initial and subsequent minimum investment amounts as set forth in the mutual funds' prospectuses. You also may be able to purchase other share classes of the mutual funds from the mutual funds directly or through other providers. The mutual funds available through the TIAA Brokerage platform (the "Platform"), including available share classes of particular mutual funds, may change over time at TIAA's discretion. The fees charged with respect to any mutual fund classes that now or in the future are made available through the Platform also may change over time at TIAA's discretion or because of changes in the mutual fund itself. For more information on how TIAA gets paid for its products and services, please refer to our "Regulation Best Interest-Form CRS" located at the bottom of the home page of our website at https://www.tiaa.org/public/pdf/support/regbi/TIAA_FormCRS.pdf.
15. TIAA may suspend or terminate your Account at any time, for any reason and without prior notice to you. If you do not fund your Account within 30 days of Account opening or your Account remains unfunded and inactive (i.e., no statement is generated) during any three-month consecutive period, TIAA reserves the right to close your Account without prior notice to you. Once your Account is closed, for any reason, TIAA Brokerage reserves the right to reject any new Account application submitted by you or on your behalf. In addition, if you maintain a small balance in your Account (for example, \$100 or less) during any three-month consecutive period, TIAA reserves the right to close your Account without prior notice to you. A check will be mailed to you after your Account is closed. You shall have 30 days from receiving notice of termination of your Account to transfer all holdings from within your Account to another broker/dealer of your choosing. Should you fail to complete this transfer within 30 days, TIAA may liquidate all holdings within your Account and mail you a check for any proceeds. This may result in a taxable event. In the event your Account is liquidated, you agree to be liable for any resulting losses and costs incurred by TIAA. You may close your Account at any time by giving TIAA notice.

16. You acknowledge that, at the time you place a trade, you are solely responsible for ensuring that you have sufficient funds in your Account to cover your purchase. You also acknowledge that TIAA may review, reject, cancel or modify any securities transactions that you have entered at any time, for any reason and without prior notice to you. You understand that TIAA Brokerage may review, reject, cancel or modify any securities transaction, without prior notification, including where after three instances there are insufficient funds in your Account to cover the transaction(s).
17. You acknowledge that you will pay in full for securities you purchase by the settlement date. For transactions not paid for by the settlement date, TIAA shall have the right, without notice to you, to sell the securities purchased.
18. You authorize TIAA to accept your oral or electronic instructions for the purchase and sale of securities. You acknowledge that such instructions must be placed through designated TIAA channels. TIAA will not accept orders or instructions sent via electronic or postal mail (including, but not limited to, U.S. mail or overnight delivery).
19. When you change any instruction on a limit order, you are responsible for any open order, and any actions by you that modify or impact an open order. If you fail to do so, you understand that you will be responsible for any loss, including applicable commission charges. You are responsible for knowing the status of your pending orders, and any duplication by you of a pending order will be considered authorized by you. You understand and acknowledge that all "Good Till Canceled" orders entered will expire in 90 days.

You acknowledge that to deter frequent trading within mutual funds, a short-term redemption fee may be assessed against any transaction that results in mutual fund shares being held for less than three months. This fee is in addition to any short-term redemption fee or restriction the underlying mutual fund may independently assess against the same transaction as described in the fund's prospectus. Each of TIAA, Pershing and/or Custodian reserves the right to restrict access to the purchase of mutual fund shares within any Account deemed at their sole discretion to engage in excessive or abusive short-term trading patterns. Additionally, in the event Pershing or Custodian, as the case may be, is instructed by the issuer of a mutual fund to restrict your access to such mutual fund's shares, such a restriction may remain in place until Pershing or Custodian receives notice from the issuer to remove the restriction.

20. You agree that TIAA, Pershing and/or Custodian may place trading, disbursement or other full or partial restrictions on your Account as deemed necessary, including but not limited to, the following circumstances: at the request of a security issuer; pursuant to a court order, tax levy, or garnishment; at the request of a government agency or law enforcement authority; in the event that your Account is restricted (including, but not limited to, trading or trade-related violations, or termination of custodianship at the age of termination); in the event that a deposit has not yet settled; or in the event of a dispute between joint tenants. You agree to allow TIAA, Pershing or Custodian to liquidate securities if such securities are no longer eligible for your Account (i.e. if a mutual fund is converted to an exchange traded fund and exchange traded funds are not eligible investments for the Account or any leveraged or inverse exchange traded product). Any proceeds from the liquidation would be deposited into the sweep product. You agree to abide by any such restriction and not to initiate trades or transactions which would violate the restriction. You agree to allow us to liquidate securities in your Account to satisfy any request by the security issuer, court order, garnishment, tax levy, or other legal obligation imposed by a court or government agency. You agree not to hold TIAA, Pershing or Custodian liable for any trading losses, lost profits, tax obligation, or other damages resulting from liquidations or trading or disbursement restrictions imposed on your Account in connection with a court order, tax levy, garnishment or other legal proceeding.
21. You understand that "penny stocks" (generally defined as any equity security priced below \$5 a share) are generally considered high-risk investments and should be purchased purely for speculation. You acknowledge that any order you place for penny stocks was not solicited by TIAA and was solely your decision.
22. If at any time you shall enter into any transaction for the purchase or resale of an option contract, you hereby agree to abide by the rules of any national securities association, registered securities exchange or clearing organization applicable to the trading of option contracts and, acting alone or in concert, will not violate the position or exercise limitation rules of any such association or exchange or of the Options Clearing Corporation or other clearing organization.

Exercise assignment notices for options contracts are allocated among short positions pursuant to a procedure that randomly selects from all short options positions, including positions established on the day of the assignment, those contracts that are subject to exercise. A more detailed description of this random allocation procedure is available on request. All short options positions are liable for assignment at any time.

23. Some Account types may permit trading in a limited range of securities (e.g., mutual funds) and you acknowledge that you must follow TIAA procedures to obtain expanded trading privileges for such Accounts. TIAA, Pershing and/or Custodian, in their sole discretion, may eliminate or restrict your ability to purchase particular securities, investments or other property due to volatility or other factors.
24. You acknowledge that you have reviewed and agree to the terms outlined within the Fractional Share Disclosure located at https://www.tiaa.org/public/pdf/f/Fractional_Share_Disclosure.pdf.
25. You acknowledge that TIAA will send all communications to you at the mailing address you provided on your Account Application, or at such other address, as you may subsequently provide to TIAA in writing, and that all communications so sent in writing shall be deemed delivered, whether actually received or not.
26. You acknowledge that federal law requires that TIAA verify your identity by obtaining, among other information, your name, date of birth, address and government-issued identification number before opening your Account. This information is necessary to help the government fight the funding of terrorism and money laundering activities. TIAA may gather and verify this information with respect to any other person authorized to effect transactions in your Account. For certain entities, such as trusts, estates, corporations, partnerships or other organizations, TIAA may require additional identifying documentation. TIAA may restrict and/or close your Account if TIAA cannot verify this information. TIAA will not be responsible for any losses, costs and/or expenses resulting from your failure to provide this information, or from any related restriction or closing of your Account.
27. You authorize TIAA to exchange credit information about you and your Account with others. As required by law, you are notified that any negative credit report reflecting on your credit record may be submitted to a credit reporting agency if you fail to fulfill the terms of your credit obligations. TIAA may request a credit report on you, and upon request, will state the name and address of the consumer reporting agency that furnished it. If TIAA extends, updates, reviews or renews your credit, TIAA may request a new credit report without notifying you.
28. You acknowledge that any person acting as a trustee, Custodian or fiduciary for your Account is liable for all activity within the Account. TIAA will not review any action or inaction taken by a trustee, Custodian or fiduciary with respect to your Account. You agree to indemnify and hold harmless TIAA, its directors, employees, agents, affiliates and assigns from and against any and all losses, claims or financial obligations (including reasonable attorney's fees) that may arise from any act or omission it may suffer from the activity of any trustee, Custodian or fiduciary you appoint with respect to your Account.
29. You acknowledge that where you provide TIAA with written notice that an unaffiliated third-party advisor has discretionary authority over your Account, TIAA and its affiliates bear no liability or responsibility for any action taken by the third-party advisor. TIAA may rely and act upon any direction given by the third-party advisor, unless and until TIAA receives written notice from you revoking the third-party advisor's discretionary authority. You are responsible for confirming that such written revocation has been received and processed. You agree to indemnify and hold harmless TIAA, its directors, employees, agents, affiliates and assigns from and against any and all losses, claims or financial obligations (including reasonable attorney's fees) it may suffer from the activity of any unaffiliated third-party advisor you appoint with respect to your Account.
30. You understand that the Internal Revenue Service ("IRS") generally requires TIAA to report annually, on Form 1099-B (the "1099-B Annual Information Report"), any gross proceeds you receive from the sale of securities, your "cost basis" for securities sold, whether any gain or loss on a security is long term or short term, and whether any reported loss is disallowed due to the application of wash sale rules.
31. In order to calculate the gain or loss on the sale of a covered security, a tax lot relief method (also called a cost accounting method) must be selected. A tax lot relief method is a way of computing the realized gain or loss for an asset sold in a taxable transaction. It determines which lot of a security, as well as its associated cost basis and the holding period, is used in computing the gain or loss. TIAA's default tax lot relief method is "First In, First Out." You should consult with your personal tax advisor or financial planner to determine your specific reporting requirements and which tax lot relief method makes sense for you. To make a change to TIAA's default method, you must select a different method by submitting your request in writing to TIAA. All cost basis identification methods, including specific lot selection, must be made prior to the settlement date of your transaction. TIAA and its affiliates shall have no liability for any damages you may incur as a result of (i) TIAA providing the required 1099-B Annual Information Report to the IRS, or (ii) any differences in the cost basis reported by TIAA to the IRS and your actual adjusted cost basis.

32. TIAA, Pershing and/or Custodian may charge certain fees, including an annual fee, to your Account for the financial services provided to you under this Agreement. Your Account also may incur service charges based upon Account activity, items returned unpaid, stop-payment orders, garnishments, levies, copies or images of cancelled checks, or for other Account services related to your Account. The fees and charges are set forth in the Commission and Fee Schedule at the end of this Agreement, and they are subject to change with notice or advance notice provided to you only if required by applicable law. You agree to repay TIAA, Pershing and/or Custodian all of their respective expenses, including attorneys' fees and legal expenses, to collect money you owe to Pershing, Custodian, Administrator, Bank, Check Free and/or TIAA because of your Account or for any dispute relating to your Account.
33. All of your securities and other property in any Account (margin or cash) in which you have an interest or which at any time are in your possession or under your control other than retirement Accounts, such as individual retirement accounts ("IRAs"), shall be subject to a lien for the discharge of any and all indebtedness or any other obligations you may have to TIAA. Securities and other property held in retirement accounts, such as IRAs, are not subject to this lien, and are not used as security for the payment of your obligations or indebtedness for other Accounts (cash or margin) that you maintain with TIAA. In enforcing the lien, TIAA may, at its sole discretion, determine which securities and other property held in your Account are to be sold or which contracts are to be closed, except where prohibited by law.
34. TIAA also may transfer securities or other property from any of your Accounts, whether individual or joint, to any of your other Accounts in order to satisfy deficiencies in any of your Accounts, except where prohibited by law. You grant TIAA the right of set-off in satisfaction of any debt in your Account, except where prohibited by law. You agree to pay any costs or expenses incurred by TIAA, including reasonable attorney's fees, that result from your failure to properly settle any securities transactions or pay any debt, or otherwise satisfy your obligations under this Agreement. You acknowledge that your Account may be subject to interest on any debit balances resulting from your failure to make payment in full for securities purchased from proceeds of sales paid prior to settlement date, or for other charges that may be made to the Accounts.
35. You acknowledge that TIAA may, at its discretion, allow certain holdings and/or positions not held in custody by Pershing to be reflected on your Account brokerage statement. Where TIAA permits this, TIAA reports these held-away holdings and/or positions based solely upon information provided by a third party. TIAA is not responsible for the accuracy of any information regarding held-away holdings and/or positions and does not verify or use a third party to verify the accuracy of such holdings and/or positions. In connection with annuities sold to you through TIAA or TIAA Insurance Agency that are reflected on your Account brokerage statement but not held in custody by Pershing, TIAA and TIAA Insurance Agency receive remuneration from issuers of the annuities, including commissions.
36. Your Account includes a cash sweep program feature which automatically transfers available uninvested cash balances in your Account at the end of each Business Day to a bank sweep deposit account or money market mutual fund (each a "TIAA Sweep Product" and together the "TIAA Sweep Program"). The TIAA Sweep Program facilitates the redemption of available shares of any such money market funds or the transfer of available cash balances from any such bank sweep deposit accounts to your Account to cover purchases of securities and other debits in your Account. Available TIAA Sweep Products vary based on Account type. You direct TIAA to use the TIAA Sweep Product indicated on your Account Application as the TIAA Sweep Product for your Account and, if you fail to indicate a TIAA Sweep Product, you direct TIAA to use the default TIAA Sweep Product indicated therein. If your Account type includes only one TIAA Sweep Product, you acknowledge that the TIAA Sweep Product set forth in the Account Application will serve as the sweep option in which all available uninvested cash balances in your Account will be allocated at the end of each Business Day. Different TIAA Sweep Products may have different rates of return and different terms and conditions, including, but not limited to, requiring minimum cash balances in your Account before such balances may be swept to a TIAA Sweep Product. Money market mutual funds are securities that are registered with the U.S. Securities and Exchange Commission ("SEC") under the Investment Company Act of 1940 and the Securities Act of 1933. Although money market funds attempt to maintain a stable net asset value of \$1 per share, there is no guarantee that such a fund will in fact maintain a \$1 per share stable net asset value. Money market funds are not insured by the Federal Deposit Insurance Corporation ("FDIC"). Money market funds are, however, securities subject to protection by the Securities Investor Protection Corporation ("SIPC") in the event of insolvency of Pershing, LLC as the brokerage firm holding your Account and cash or securities owed to you. SIPC is a non-profit member corporation funded primarily by member securities brokerage firms registered with the SEC, which protects customers up to certain limits in the event of the failure of a brokerage firm where cash and securities are owed to customers. See the TIAA Brokerage SIPC Asset Protection Guide (<https://www.tiaa.org/public/pdf/forms/SIPC-asset-protection.pdf>) for more information. SIPC does not protect

against loss due to market fluctuation or failure of the issuer of a money market fund. More specific information about a particular money market mutual fund, including applicable fund restrictions, fees and expenses and other important information, can be found in the fund's prospectus. TIAA Sweep Product options are deposit accounts held at one or more banks. Deposit accounts pay interest on deposits pursuant to the terms and conditions in the disclosure document for the applicable TIAA Sweep Product. Interest rates may fluctuate and may vary among banks. Deposit accounts are not subject to SIPC protection. They are subject to FDIC insurance up to applicable limits. FDIC insurance protects against loss of deposit amounts in the event the bank holding the deposits fails. More specific information about particular TIAA Sweep Products, including applicable FDIC insurance limits, interest amounts and other important information can be found in the applicable TIAA Sweep Product's disclosure document. Prospectuses or similar disclosure documents for the Money Market Mutual Fund Sweep Product option(s) available for your Account are available online at <https://www.tiaa.org/public/invest/financial-products/brokerage-accounts/interest-rate-disclosure> or by calling 800-842-2252. You agree to review these disclosure documents prior to opening your Account. TIAA may change the terms and conditions of the TIAA Sweep Program and the TIAA Sweep Product options available for your Account, at its sole discretion. TIAA will provide you with written notice in advance of adding, changing or deleting TIAA Sweep Product options for your Account or making other changes to the TIAA Sweep Program to the extent required by applicable law. TIAA may receive 12b-1 and similar service fee payments from TIAA Sweep Products. Please consult the prospectus or similar disclosure document for each TIAA Sweep Product for more information concerning such fees. TIAA Brokerage and the banks that participate in the TIAA Sweep Program are separate companies. The TIAA Sweep Program bank(s) hold(s) deposits in connection with the TIAA Bank Sweep Product options described in Paragraph 37 below and in the TIAA Sweep Product Terms and Conditions. For the TIAA Brokerage Sweep Product, pursuant to an agreement between TIAA Brokerage and the cash sweep bank, the cash sweep bank pays TIAA Brokerage an asset-based fee based on the amount of cash from self-directed Accounts that is swept to the bank.

37. As set forth in Paragraph 36 above, TIAA Sweep Product options vary by Account type. The following paragraphs apply to Account types with the TIAA Brokerage or TIAA Managed Sweep Account options or the Money Market Mutual Fund Sweep options.

The TIAA Sweep Product (FDIC-Insured). The following describes the TIAA Sweep Product option, if your Account Application indicates that the TIAA Sweep Product for your Account is the TIAA Brokerage or TIAA Managed Sweep Account; if you have selected the TIAA Sweep Product as your sweep option; if you have failed to select a TIAA Sweep Product on your Account Application and the TIAA Sweep Product is the default sweep option for the Account; or if TIAA has notified you that TIAA is replacing the existing sweep option for your Account with the TIAA Sweep Product. TIAA Managed Sweep and TIAA Brokerage Sweep generally will have different rates of interest. For additional details see the TIAA Brokerage interest and cash sweep rate disclosure at <https://www.tiaa.org/public/invest/financial-products/brokerage-accounts/interest-rate-disclosure>. The TIAA Sweep Product comprises two separate sweep options used in combination: (1) the TIAA Brokerage Sweep Product (for self-directed Accounts) or TIAA Managed Sweep (for TIAA Personal Portfolio and TIAA Portfolio Advisor Accounts), which automatically sweeps eligible cash balances in an Account up to the Maximum Deposit Amount (defined below) into interest-bearing deposit accounts at the cash sweep bank as indicated within the TIAA Sweep Terms and Conditions; and (2) the Liquid Insured Deposits ("LIDs Overflow") Sweep Product, which is used as an overflow TIAA Sweep Product to automatically sweep eligible cash balances in excess of the Maximum Deposit Amount into interest-bearing deposit accounts with participating banks unaffiliated with TIAA ("LIDs Overflow banks"). The TIAA Sweep Product will serve as the primary sweep option for eligible cash balances in an Account up to a Maximum Deposit Amount set by the cash sweep bank. The Maximum Deposit Amount for an Account is specified within the TIAA Sweep Terms and Conditions and is subject to change with notice to you. Interest that accumulates in your Account may cause your balance to exceed the Maximum Deposit Amount; however, in no event will the balance exceed the then-current FDIC insurance limits for deposit amounts held at a bank in the same right and capacity. The LIDs Overflow Sweep Product will be used as an overflow sweep for eligible cash deposits in an Account which exceeds the Maximum Deposit Amount ("Excess Balances") plus any interest accrued. Only Excess Balances in an Account are eligible to use the LIDs Overflow Sweep Product. By way of example, if an Account holds \$300,000 in eligible cash balances, the first \$248,500 automatically will be swept into interest-bearing deposit accounts with the cash sweep bank through the TIAA Sweep Product. The remaining \$51,500 in eligible cash balances automatically will be swept into interest-bearing accounts with participating TIAA Sweep Program banks unaffiliated with TIAA through the LIDs Overflow Sweep Product. By way of further example, if the Account instead holds \$248,500 or less in eligible cash balances, such eligible cash balances will be automatically swept into interest-bearing deposit accounts with the cash sweep bank through the TIAA Sweep Product. In the event there is insufficient availability of TIAA Program banks to fully allocate your balance, or you have a balance in excess of the program limits, cash will not be deposited in the TIAA Sweep Products and will remain as uninvested cash within your Account. While uninvested cash is covered by SIPC, it does not earn a rate of return nor is it covered by FDIC insurance. Please

review the separate disclosure documents for the TIAA Sweep Product and the LIDS Overflow Sweep Product carefully.

It is your sole responsibility to monitor the total balances you have across your Accounts with the banks that participate in the TIAA Sweep Program to ensure that your deposit amounts held at any bank in the same right and capacity, directly or indirectly (with the TIAA Sweep Program bank(s) or through your Account), do not exceed \$250,000, which currently is the maximum amount eligible for FDIC insurance coverage for a single bank. Amounts you hold at any bank, including a LIDS Overflow bank, in excess of \$250,000 will not receive FDIC insurance coverage. For example, if you have a deposit account and a certificate of deposit ("CD") with the same bank, the aggregate dollar amount of the deposit account and the CD including accrued interest in excess of \$250,000 will not be FDIC-insured. A list of participating LIDS Overflow banks can be viewed online by going to <https://www.tiaa.org/public/invest/financial-products/brokerage-accounts/interest-rate-disclosure> or by contacting TIAA for a written copy. Once you have cash invested within the LIDS Overflow Sweep Product, you may opt out of having funds swept to a participating LIDS Overflow bank by contacting TIAA at 800-842-2252 weekdays, 8 a.m. to 7 p.m. (ET); a representative can take such instructions over the phone.

Other Sweep Options for Self-Directed Accounts. TIAA may make the Liquid Insured Deposits Overflow Sweep Product or Money Market Fund Sweep Product available as the primary sweep on your Account (i.e., not in combination with the TIAA Brokerage or TIAA Managed Sweep). TIAA may change this option by replacing it with the TIAA Sweep Product described above or otherwise adding or deleting sweep options. TIAA will provide prior written notice to such Account holders as set forth in Paragraph 36 above prior to making any such changes. When selecting LIDS Overflow as the primary sweep on your Account, and you have a cash balance in excess of the LIDS Overflow FDIC limits, cash will be swept automatically into a secondary default money market mutual fund cash sweep as determined by the TIAA Sweep Program.

TIAA may make other sweep options available for your Brokerage account. To discuss available sweep options or request a change from the primary or default sweep product, contact TIAA Brokerage. You can see the available sweeps by going to the Brokerage Interest Rate Disclosure page <https://www.tiaa.org/public/invest/financial-products/brokerage-accounts/interest-rate-disclosure>. Not all sweeps are available in all Accounts.

38. You acknowledge TIAA is obligated by federal securities laws to provide your name, address and holdings information to issuers of those securities upon request, unless you instruct TIAA in writing not to do so.
39. For the parties' mutual protection, you understand, agree and expressly consent to TIAA's electronic recordation of any of your telephone conversations with TIAA and to TIAA's monitoring of your electronic communications with TIAA, including, but not limited to, email and facsimile transmission.
40. You acknowledge receipt of the TIAA Privacy Notices and TIAA Trust, N.A., Privacy Notice, when applicable.
41. Securities which are held for your Account and which are in "street name," or are being held by a securities depository, are commingled with the same securities being held for other customers of TIAA and for Pershing's own customers. Your ownership of these securities is reflected in Pershing's records. You have the right at any time to require delivery to you of any such securities that are fully paid for or are in excess of margin requirements. The terms of many bonds allow the issuer to partially redeem or "call" the issue prior to maturity date. Certain preferred stocks are also subject to being called by the issuer. Whenever any such security being held by Pershing is partially "called," Pershing will determine through a random selection procedure as prescribed by the New York Stock Exchange rules, the ownership of the securities to be submitted for redemption. In the event that such securities owned by you are selected and redeemed, your Account will be credited with the proceeds. Should you not wish to be subject to this random selection process, you must instruct TIAA to have Pershing deliver your securities to you. Delivery will be effected provided, of course, that your position is unencumbered or had not already been called by the issuer as described, prior to receipt by Pershing of your instructions. The probability of one of your securities being called is the same whether they are held by you or by Pershing for you.
42. You acknowledge that various federal and state laws or regulations may be applicable to transactions in your Account regarding restricted securities, as defined by applicable securities laws and regulations. It is your responsibility to notify TIAA if your Account contains restricted securities and to ensure that any transaction you effect will comply with all applicable laws and regulations. You understand that transactions in restricted securities may take longer to process than transactions involving unrestricted securities. Additionally, you

acknowledge TIAA is obligated by federal securities laws to provide your name, address and holdings information to issuers of those securities upon request, unless I instruct TIAA in writing not to do so. Notwithstanding the foregoing, TIAA may, at its sole discretion, refuse to permit restricted securities within your Account.

43. You acknowledge your responsibility to review your brokerage Account statements for accuracy and to notify TIAA, Pershing and/or Custodian within 30 days of receipt of any error or omission. If you fail to notify TIAA, Pershing and/or Custodian of any error or omission within this time frame, your brokerage Account statement shall be presumed accurate. You acknowledge your responsibility to review all confirmation statements for accuracy and to notify TIAA, Pershing and Custodian immediately of any error or omission. If your periodic customer statement indicates that securities were forwarded to you and you have not received them, you should notify TIAA or Pershing immediately. If notification is received within 120 days after the mailing date, as reflected on your periodic statement, replacement will be made free of charge. Thereafter, a fee for replacement may apply.
44. You acknowledge that if any provision or condition of this Agreement is held invalid or unenforceable for any reason by any court, or regulatory or self-regulatory agency or body, such provision or condition shall be fully severable, and this Agreement shall be enforced and construed as if such provision or condition had never comprised a part of this Agreement.
45. You acknowledge that this Agreement cannot be modified by conduct and/or the failure of TIAA, Pershing and/or Custodian at any time to enforce its rights hereunder to the greatest extent permitted by law, and shall not be deemed to waive, modify or relax any of the rights granted to TIAA, Pershing and/or Custodian herein, including any right to deal with collateral on all loans advanced to you.
46. You acknowledge that this Agreement constitutes the full and entire understanding between the parties with respect to the provisions herein, and that there are no oral or other agreements in conflict herewith. You acknowledge that each of TIAA, Pershing and/or Custodian reserves the right to amend this Agreement, by modifying or rescinding any of its existing provisions or by adding any new provision at any time upon written notice to you on your brokerage Account statement(s), trade confirmation(s), or such other written or electronic notification, including, but not limited to, posting notice of such amendment(s) and/or the amended Agreement on the TIAA Brokerage website. The amended Agreement will be effective as of the date established by TIAA, Pershing and/or Custodian (the "Effective Date"). You agree that any future amendments made to the Agreement shall apply to your Account and to any subsequent Accounts you ask TIAA to establish for you in the future. The use of your Account after the Effective Date of the amendment(s) shall constitute your acknowledgment and agreement to be bound thereby. You are responsible for regularly checking for updates. You understand additional restrictions may apply to the brokerage services provided hereunder and additional documentation may be required by applicable law or TIAA, Pershing and/or Custodian's policies and procedures. You agree to comply with any such restrictions and promptly provide any documents or information requested.
47. This Agreement or any subsequently modified Agreement shall cover all aspects of the Account(s) you may open or reopen with Pershing through TIAA, including, but not limited to, Account(s) with brokerage, Check-writing privileges, Card services and associated ACH Transactions, and BillSuite Services, and shall inure to the benefit of each of our successors whether by merger, consolidation or otherwise, and assigns, and each of TIAA, Pershing and/or Custodian may transfer your Account to our respective successors and assigns, and this Agreement shall be binding upon your heirs, executors, administrators, successors and assigns.
48. TIAA Brokerage and Pershing, in their capacity as clearing firm, may make Account communications available in an electronic form instead of mailing them in paper form; according to terms and conditions will be stated within the Electronic Delivery Terms and Conditions.
49. You acknowledge that telephone, internet or any other electronic system, and software provided for use in accessing your Account information is used at your sole risk and that neither TIAA nor its vendors providing data, information or other services, including, but not limited to, any exchange (collectively, "Service Providers"), warrant that the service will be uninterrupted or error-free and that neither TIAA nor any such Service Providers will make any warranty as to the results that may be obtained from any of these systems. You further acknowledge that telephone, internet and other electronic systems are provided on an "as-is" and "as-available" basis, without warranties of any kind, either expressed or implied, including, without limitation, those of merchantability and fitness for a particular purpose, other than those warranties which are implied by and incapable of exclusion, restriction or modification under applicable laws and regulations. None of TIAA, the

Service Providers, Pershing or Custodian will be liable in any way to you or any other person for any inaccuracy, error or delay in, or omission of, any data, information or message, or the transmission or delivery of any data, information or message, or any loss or damages arising from or occasioned by: any inaccuracy, error, delay or omission, nonperformance, interruption in data due to neglect or omission by any Service Provider; any "force majeure" event (i.e., loss caused directly or indirectly by flood, fire, war, terrorism, civil unrest, strikes, natural disaster, extraordinary weather conditions, earthquake or other acts of God, government restrictions or actions, interruptions of communications, exchanges or market rulings, suspension of trading or other conditions beyond TIAA's control, failure, or equipment or software malfunction); or any other cause beyond the reasonable control of any Service Providers.

50. You acknowledge that complaints regarding your Account are to be mailed to TIAA Brokerage, P.O. Box 1280, Charlotte, North Carolina 28201, or you may call 800-842-2252.
51. The Agreement, all transactions made in your Account and all matters arising in connection with the Agreement will be governed by, and construed and enforced in accordance with, the laws of the State of New York (regardless of the choice of law rules thereof), provided, however, that the optional Cash Solutions Account Banking Services Agreement and the BillsSuite™ Agreement set forth in the Cash Solutions Account Terms & Conditions and Part VI below will be governed by the laws of such state(s) as indicated in Cash Solutions Account Terms & Conditions.
52. You agree that TIAA may assign this Agreement (in part or in full, and including assigning the role of clearing broker and custodian for the Account) to any third party or any subsidiary, affiliate or successor of TIAA. You hereby delegate and grant to TIAA the power and authority to make these changes on your behalf. TIAA will provide you with at least 30 days prior written notice of such assignment and you will be deemed to have consented to the assignment if you conduct any transactions in your Account or keep your Account open subsequent to receiving such a notice.

II. Trusted Contacts

TIAA is committed to helping you protect your Account(s) and information. One way to protect your interests is to appoint a Trusted Contact. A Trusted Contact is someone over the age of 18 whom you know and trust. This person will serve as a point of contact should we have questions concerning your overall well-being or whereabouts, or if we suspect you may be the victim of fraud or exploitation. The individual(s) you select may not take any action on your Account and will not replace or affect existing powers of attorney. You should notify those you appoint as Trusted Contacts.

To appoint your Trusted Contact(s), log into your Account at TIAA.org, click *Profile* at the top of the page. Within *Manage profile*, click *Trusted Contacts* and complete the required Trusted Contact information, or contact us at 800-842-2252 to request a form to name a Trusted Contact.

Please note that TIAA, and its affiliates and representatives, are authorized to contact the Trusted Contact(s) and disclose information about your Account(s) to address possible financial exploitation, to confirm the specifics of your current contact information, health status, or the identity of any legal guardian, executor, trustee, or holder of a power of attorney, or as otherwise permitted under FINRA Rule 2165. Except as is required by FINRA Rule 2165, TIAA is under no obligation to interact with Trusted Contact(s).

III. Role of Pershing

TIAA has retained Pershing to act as a clearing broker for TIAA and provide certain recordkeeping and operational services, which may include execution and settlement of securities transactions, custody of securities and cash balances, and extension of credit on margin transactions. These services are provided under a written Clearing Agreement between Pershing and TIAA. The respective roles of Pershing and TIAA, as defined within the Clearing Agreement, are outlined below.

1. In general, Pershing only is responsible for those services provided at the request or direction of TIAA as contemplated by the Clearing Agreement.
2. Pershing will create computer-based Account records on the Account holder's behalf in such name(s) and with such address(es) as TIAA directs.
3. Pershing will process orders for the purchase, sale or transfer of securities for the Account as TIAA directs.

Pershing is not obligated to accept orders for securities transactions directly from the Account holder and will do so only in exceptional circumstances.

4. Pershing will receive and deliver cash and securities for the Account and will record such receipts and deliveries according to information provided either by TIAA or directly, in writing, by the Account holder.
5. Pershing will hold in custody securities and cash received for the Account, will collect and disburse dividends and interest, and will process reorganization and voting instructions with respect to securities held in custody. Pershing is responsible for the custody of cash and securities only after such comes into Pershing's physical possession or control. Pershing will prepare and transmit to the Account holder, or provide facilities to TIAA for the preparation and transmission of, confirmations of trades. Pershing will prepare and transmit to the Account holder periodic Account statements summarizing the transaction history.
6. If TIAA opens a Margin Account for an Account holder, Pershing will loan the Account holder money for the purpose of purchasing or holding securities subject to the terms of Pershing's written Margin Agreement as set forth in Section IV below (or in a separate document) and Pershing margin policies and applicable margin regulations. TIAA is responsible for obtaining the initial margin as required by Regulation T. Thereafter, Pershing will calculate the amount of maintenance margin required. Pershing will advise the Account holder of those requirements, usually through TIAA. Pershing also will calculate the interest charged on the debit balance, if any.
7. In connection with all of the functions that Pershing performs, Pershing maintains the books and records required by law and by business practice. Pershing will provide TIAA with written reports of all transactions processed for the Account to enable it to carry out its responsibilities under the Clearing Agreement. Pershing will assist the Account holder and TIAA with any discrepancies or errors that may occur in the processing of transactions for the Account.
8. **PERSHING DOES NOT CONTROL, AUDIT OR OTHERWISE SUPERVISE THE ACTIVITIES OF TIAA OR ITS EMPLOYEES. PERSHING DOES NOT VERIFY INFORMATION PROVIDED BY TIAA REGARDING THE ACCOUNT OR TRANSACTIONS PROCESSED FOR THE ACCOUNT NOR UNDERTAKE RESPONSIBILITY FOR REVIEWING THE APPROPRIATENESS OF TRANSACTIONS ENTERED BY TIAA ON THE ACCOUNT HOLDER'S BEHALF. PERSHING MAY ACCEPT FROM TIAA, WITHOUT INQUIRY OR INVESTIGATION, (I) ORDERS FOR THE PURCHASE OR SALE OF SECURITIES AND OTHER PROPERTY ON MARGIN OR OTHERWISE, AND (II) OTHER INSTRUCTIONS CONCERNING YOUR ACCOUNTS. NOTICES TO YOU CONCERNING MARGIN REQUIREMENTS OR OTHER MATTERS RELATED TO YOU WILL GO THROUGH TIAA; HOWEVER, DIRECT CONTACT BY PERSHING MAY OCCUR IF MARKET CONDITIONS, TIME CONSTRAINTS OR OTHER CIRCUMSTANCES REQUIRE IT. PERSHING SHALL NOT BE RESPONSIBLE OR LIABLE FOR ANY ACTS OR OMISSIONS BY TIAA OR ITS EMPLOYEES. YOU UNDERSTAND THAT PERSHING PROVIDES NO INVESTMENT ADVICE NOR DOES PERSHING GIVE ADVICE OR OFFER ANY OPINION WITH RESPECT TO THE SUITABILITY OF ANY TRANSACTION OR ORDER. YOU UNDERSTAND THAT TIAA IS NOT ACTING AS THE AGENT OF PERSHING, AND YOU AGREE THAT YOU WILL IN NO WAY HOLD PERSHING, ITS OTHER DIVISIONS, AND ITS OFFICERS, DIRECTORS AND AGENTS LIABLE FOR ANY TRADING LOSSES INCURRED BY YOU. YOU AUTHORIZE PERSHING TO ACT AS YOUR AGENT TO PURCHASE AND REDEEM FOR YOUR ACCOUNT SHARES OF THE FUNDS, AS PREVIOUSLY DEFINED, AND YOU AGREE THAT YOU SHALL NOT HOLD PERSHING, ITS OTHER DIVISIONS, AFFILIATES, OFFICERS, DIRECTORS OR AGENTS LIABLE FOR ANY TRADING LOSSES INCURRED.**
9. The Clearing Agreement does not encompass transactions in commodities futures contracts or investments other than marketable securities, which Pershing normally processes on recognized exchanges and over-the-counter markets.
10. In furnishing its services under the Clearing Agreement, Pershing may use and rely upon the services of clearing agencies, automatic data processing vendors, proxy processing, transfer agents, securities pricing services and other similar organizations.
11. This statement addresses the basic allocation of functions regarding the handling of the Account. It is not meant as a definitive enumeration of every possible circumstance, but only as a general disclosure.

IV. Margin Agreement

Approval of margin privileges is subject to review by TIAA. To apply for margin privileges, please complete a separate Margin application or contact a TIAA Brokerage representative for assistance. If you open such an Account with TIAA, you

will execute and be bound by the terms and conditions of the Margin Agreement and Interest Rate Disclosure Pursuant to Section 10b-16 of the Securities and Exchange Act of 1934 with TIAA, Pershing or any other TIAA-designed clearing broker, as well as by the terms of this Agreement. If inconsistent, the Agreement with Pershing shall prevail. The full Margin Agreement and Margin Disclosure Statement, conditions and Interest Rate Table can be reviewed online at (<https://www.tiaa.org/public/pdf/forms/F11008.pdf>).

V. Cash Solutions Account

An Account with Cash Solutions features consists of three parts: (a) a conventional brokerage Account which is either a cash or Margin Account, or both; (b) access to funds in the Account via Cards, Checks and ACH Transactions; and (c) a choice of Funds. Enrollment in the Cash Solutions feature is through an additional and separate application. The full terms, conditions and fee schedule can be reviewed within the Cash Solutions Account Terms and Conditions (<https://www.tiaa.org/public/pdf/forms/F11417.pdf>).

VI. Commission and fee schedule¹

Equities and Exchange-Traded Funds (ETFs)

(All commissions and fees are per transaction, unless otherwise indicated.)

	Online/mobile TIAA.org/brokerage	Client Service Assistance 800-842-2252
Equity and Transaction-Fee ETFs	No charge	\$55
No-Transaction-Fee (NTF) ETFs	<ul style="list-style-type: none"> • NTF-eligible ETFs will have a \$0.00 commission, regardless of order size or holding period. • Any ETF shares purchased prior to January 26, 2018 and now identified as an NTF ETF will still be charged a commission when the shares are sold, when placing the trade through Client Service Assistance. • A commission will be charged for NTF ETFs sold prior to settlement. • NTF-eligible ETFs should not be purchased on margin. If purchased on margin, the ETF is no longer NTF eligible. • NTF-eligible ETFs can be moved to margin after 30 days. 	
Equity notes	<ul style="list-style-type: none"> • Fees shown reflect stock prices greater than \$1 per share. Orders to buy shares priced under \$1, restricted shares, non-permitted Cannabis Related Business securities, foreign securities, privately held securities, shares without a market price or no bid/ask will not be accepted. • Orders to sell shares priced under \$1 are handled via Client Service Assistance at the online commission rate, given above, based on eligibility. 	
Financial Transaction Tax (FTT) Ordinary and ADR	<p>Financial Transaction Tax (FTT) is a generic name for taxes that are levied on certain transactions in FTT-eligible companies/financial instruments from certain countries. The rates are typically on the total transaction cost and vary by country. Rates generally will range between 0.01% to 5% per transaction.</p>	

ADR agent servicing fee	Fee generally will range from \$0.01 to \$0.03 per share. Amounts will differ by ADR. Please refer to the ADR prospectus for specific fee and other information.
Financial Industry Regulatory Authority (FINRA) Trading Activity Fee (TAF)	Varies per transaction/security. Visit https://www.finra.org/rules-guidance/guidance/trading-activity-fee for the current rates.
Securities and Exchange Commission (SEC) Section 31 transaction fee	Varies per transaction. Visit https://www.SEC.gov for the current rate.

Fixed income

(All commissions and fees are per transaction, unless otherwise indicated.)

U.S. Treasury Securities

New issues (primary, at auction)	\$50 per transaction
Existing issues (secondary, already trading)	\$1 per \$1,000 face amount (\$50 minimum)

Other Fixed Income

Municipal Bonds, Government Agency Bonds, Unlisted (over-the-counter) Corporate Bonds, and Mortgage-backed Securities ²	\$50 + \$2 per bond
Certificates of Deposit – New Issues	Purchase minimums of \$5,000, no commission (interest rate reflects issuing bank's fee)

¹ Fees may be different for managed accounts, or may be waived at the discretion of TIAA Brokerage.

² TIAA may execute certain fixed-income transactions for your Account on either an agency or principal basis. If TIAA executes on an agency basis, the commissions listed above will apply. If TIAA executes on a principal basis, TIAA will sell a fixed-income product to you (or buy it from you), which TIAA contemporaneously purchases from (or sells to) a dealer. If so, the net compensation earned by TIAA will include a mark-up. If TIAA sells a fixed-income product to you, the mark-up is the difference between the sales price to you and the price TIAA pays to purchase the product from a dealer. If TIAA buys a fixed-income product from you, the mark-up is the difference between the sales price to the dealer and the price TIAA pays to purchase the security from you.

Options

(All commissions and fees are per transaction, unless otherwise indicated.)

	Online/mobile TIAA.org/brokerage	Client Service Assistance 800-842-2252
Commissions and fees	No charge	\$55 + \$2.50 per contract
Options exercise/assignment	\$25	\$25
Options regulatory fee	Varies by contract. Visit https://www.theocc.com for the current fee schedule.	

Mutual funds

(All commissions and fees are per transaction, unless otherwise indicated.)

No-Transaction-Fee (NTF) Funds

- Minimum initial investment for NTF mutual funds: The greater of either the listed amount in the fund's prospectus or \$500. Purchases below the stated minimum will be charged the appropriate transaction fee.
- Additional investments of NTF funds: The greater of either the listed amount in the fund's prospectus or \$500, unless you are purchasing through a systematic (automatic recurring) order. Purchases below the \$500 minimum will be charged the appropriate transaction fee.
- Different minimums may apply for managed accounts.
- Systematic (automatic recurring or dollar cost averaging) orders, no fee; minimum transaction of \$100.
- Short-term redemption fee: \$50 minimum for shares held less than three months (waived for shares transferred from another brokerage firm or financial institution). Additional redemption fees may apply as set forth in each fund's prospectus.

Transaction-Fee (TF) Funds

- Transaction fee, regardless of order size:
 - \$50 per trade
 - \$35 per trade for customers that receive a financial planning solution from their Wealth Management Advisor.
- Minimum initial investment for mutual funds: The greater of either the listed amount in the fund's prospectus or \$500.
- Additional investments: The greater of either the listed amount in the fund's prospectus or \$500, unless you are purchasing through a systematic (automatic recurring) order.
- Different minimums apply for managed accounts.
- Systematic (automatic recurring or dollar cost averaging) order, no fee; minimum transaction of \$100.

Account maintenance fees

(All fees are per transaction, unless otherwise indicated.)

Account research	\$20 per hour
ACH return fee	\$25
Alternate investment transaction/processing fee	\$50
Certificate cancellation fee for certificates deposited outside of the transfer agent	\$3 or higher (pass-through fee, varies by agent)
Custody/safekeeping fee for physical securities (Excludes ADRs held with domestic custodian bank)	\$10 per Account, per position, per month

Direct registration system (“DRS”) incoming transfer fee – shares sent directly from some transfer agents	\$15 – \$20 (pass-through fee, varies by transfer agent)
DRS outgoing transfer fee – shares sent directly back to the transfer agent ²	\$30 per security, per Account
Foreign Account fee (Non-US address)	\$50 per year for each Account that maintained a balance, position or had a form 1042-S reportable transaction
Foreign securities	Up to \$125 for each order (not applicable to American Depositary Receipts) + transaction fees and commission
Foreign security receive and deliver fee	\$75
Incoming Account transfer/IRA termination/Account closure fee	Varies by sender (pass-through fee)
International overnight check delivery fee	\$25
IRA termination fee ⁴	\$130
Margin extensions	\$15
NSF/return check deposit fee	\$25
Outgoing wired funds fee	\$25 (waived for Account in a managed account)
Overnight check delivery fee	\$12
Post-effective reorganizations—Voluntary	\$75
Reorganizations—Voluntary	\$25
Saturday delivery—overnight check delivery fee	\$18
Special product fee—Registered real estate investment trusts (“REITs”)	\$35 per position, charged at transfer and then annually
Special product fee—Unregistered REITs	\$125 per position, charged at transfer and then annually
Stop-payment order fee	\$15
Transfers of gifted securities or checks mailed regular delivery ³	No charge
Transfers—Accommodation ²	\$80 per transfer

Transfers—Automated Clearing House (ACH)	No charge
Transfers—GNMA, Restricted, Legal ³	\$140 per transfer
Transfers—Outgoing full Account ³	\$50 per transfer, no charge for partial transfers
Transfers—Register, transfer and ship ³	\$80 per transfer, plus any third-party charges, including a DTCC charge of \$500
Tax Statement Paper Surcharge	\$10 per year per Account that generates a year-end tax statement (waived for Accounts in a managed account and those who have elected to receive via electronic delivery)
Unrelated Business Taxable Income Tax Return (IRS Form 990-T) Processing	\$200 per tax return filed

³Checks in the amount of \$250,000 or more for transfers will be sent via overnight delivery and a delivery fee of \$12 will be charged to the Account.

⁴Termination fee does not apply to the TIAA IRA or Investment Solutions IRA Self-Directed brokerage Account, or if the assets from a TIAA IRA Account are transferred to a new or existing TIAA IRA Account.

Foreign currency deposit fee “Free credit balance interest charge”

(Monthly rate subject to change. Call TIAA Brokerage for current rates.)

Currency	Rate for balance below daily exception balance	Daily exception balance	Rate for balance above daily exception
Swiss Franc (CHF)	2.00%	\$100,000	4.25%
Danish Krone (DKK)	1.40%	\$1,000,000	1.80%
Swedish Krona (SEK)	.85%	\$2,000,000	1.25%
Euro (EUR)	.80%	\$86,000	1.05%
Japanese Yen (JPY)	.40%	\$100,000,000	.65%
Norwegian Krone (NOK)	1.10%	N/A	N/A

Self-Directed Brokerage IRA Resource Checking

(All fees are per transaction, unless otherwise indicated.)

Copy of cancelled check	\$3.75 per copy
NSF/return check fee	\$25
Stop payment fee	\$25

Cash Solutions Account (CSA)

(All fees are per transaction, unless otherwise indicated.)

	Silver Tier	Gold Tier	Platinum Tier
Annual fee	\$25*	\$95	\$145
ATM withdrawal fee Visa® or Plus® (PNC Bank or Allpoint® Network)	N/A	None	None
ATM out-of-network fee (ATM not on PNC Bank or Allpoint® Network)	N/A	None	None
ATM out-of-network surcharge fee ⁴ (charged by ATM owner not on PNC Bank or Allpoint® Network)	N/A	Various, Fee reimbursement up to \$5 monthly	Various, Fee reimbursement up to \$10 monthly
Bill payment through Billsuite	Free	Free	Free
Business style check reorder	\$50	\$50	\$50
Business style checks – initial order, includes binder	\$60	\$60	\$60
Business style checks – replacement binder	N/A	N/A	\$20
Cash advance fee (non-ATM)	N/A	.25% of transaction (\$2.50 minimum)	.25% of transaction (\$2.50 minimum)
Check reorder	\$15	\$10	Free
Copy of paid check online	None	None	None
Copy of paid checks or Visa® draft	\$2.50 per copy	\$2.50 per copy	\$2.50 per copy
CSA checks and debit card – overnight delivery	\$40	\$40	\$40
Foreign transaction fee (Visa® fee for transactions performed outside the U.S.)	N/A	1% of transaction	1% of transaction
Initial check order (includes checkbook cover, check register, deposit tickets and 40 checks)	Free	Free	Free
Letter with checking Account information	None	None	None
Lost or stolen checkbook replacement	\$25	\$25	\$25
MobileWallet vendor additional transaction charges	N/A	None	None
Returned check ACH Transaction (for any reason)	\$25	\$25	\$25
Stop payments (on checks)	\$25	\$25	Free

⁴ Surcharge may be imposed for ATM usage including transactions and balance inquiries.

*Note: Silver Tier annual fee is waived for Accounts that have \$25,000 or more in average month-end closing cash sweep balances.

Investment, insurance and annuity products are not FDIC insured, are not bank guaranteed, are not deposits, are not insured by any federal government agency, are not a condition to any banking service or activity, and may lose value.

TIAA Brokerage, a division of TIAA-CREF Individual & Institutional Services, LLC, reserves the right to change this fee and commission schedule at its discretion, subject to notification in accordance with applicable laws and regulations.

TIAA-CREF Individual & Institutional Services, LLC, Member FINRA and SIPC, distributes securities products. TIAA Brokerage, a division of TIAA-CREF Individual & Institutional Services, LLC, Member FINRA and SIPC, distributes securities. Brokerage Accounts are carried by Pershing, LLC, a subsidiary of The Bank of New York Mellon Corporation, Member FINRA, NYSE, SIPC. Advisory services are provided by Advice & Planning Services, a division of TIAA-CREF Individual & Institutional Services, LLC, a registered investment adviser.

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TIAA Privacy Notice

Please read this notice carefully. It applies to you as a current or former customer of our products and services, or as a consumer interested in our products and services. We at TIAA are committed to protecting your privacy in accordance with the Fair Credit Reporting Act (FCRA), as amended by the Fair and Accurate Credit Transactions Act of 2003 (FACT Act), the Gramm-Leach-Bliley Financial Services Modernization Act (GLBA), applicable state laws, and this privacy notice. This privacy notice should not be construed as establishing a contractual relationship.

Information we may collect

The nonpublic personal information we collect may include, but is not limited to, your name, address, telephone number, email address, Social Security number, date of birth, and your transaction and experience history with TIAA Companies, as defined below. We may use this information in connection with certain aspects of our business. For example, we may use this information to complete your requested transaction, to improve your online experience with us, or to otherwise manage your relationship with the TIAA Companies.

We may obtain this information i) directly from you (e.g., application or other form you have completed, from information you have chosen to disclose in our website, [TIAA.org](https://www.tiaa.org), or from information you have given a TIAA Company in a consultation), ii) from your employer with respect to your employer-sponsored plan, or iii) from third parties. In addition, we may also collect information about your creditworthiness from consumer reporting agencies, and may include your marital status, employment history, income, assets, credit score, credit history, open lines of credit, and about your household.

If you own a life insurance policy, we may have collected your health information. We will not disclose your health information to any other company, including TIAA Companies or other persons unless authorized by you, or required or permitted by law or regulation.

How your information is used

We use your personal information primarily to provide you with the products and services you request or your employer has directed us to deliver on your behalf, and we share and use your personal information relating to transactions, balances, payment history and similar experiences among the TIAA Companies to conduct their business. If you are a participant in an employer-sponsored retirement or savings plan investing in a TIAA or third-party annuity contract or a TIAA or third-party mutual fund, we may share the information we collect with your employer and its agents, if any, for plan administration purposes. Additionally, unless instructed otherwise by a plan sponsor of your current or former retirement plan, we may also use your personal information to market or determine your possible interest in products and services that the other TIAA Companies offer.

Disclosure of your information

We share your personal information with other TIAA Companies as permitted by law. We will not disclose your personal information to anyone outside of the TIAA Companies unless: 1) we have received proper consent from you; 2) we are legally permitted to do so; or 3) we reasonably believe, in good faith, that we are legally required to do so. For example, we may provide the information to assist us with various aspects of conducting our business, to comply with laws or industry regulations, and/or to effectuate any action that you have requested, including the following:

- Unaffiliated service providers (e.g., fulfillment companies and securities clearinghouses, data processing services, printers and mailing facilities) engaged by us
- Unaffiliated fund and/or insurance companies and their agents whose investment options are made available to you through your employer-sponsored retirement or savings plan, provided monies are allocated to them on your behalf
- Government agencies, other regulatory bodies and law enforcement officials (e.g., for tax purposes or for reporting suspicious transactions)
- Other organizations, with your consent or as directed by you (e.g., if you use TIAA as a financial reference in applying for credit with another institution)
- Other organizations, as permitted or required by law (e.g., for fraud prevention)

Security of your information

TIAA protects the personal information you provide against unauthorized access, disclosure, alteration, destruction, loss, or misuse. Your personal information is protected by physical, electronic, and procedural safeguards in accordance with federal and state standards. These safeguards include appropriate procedures for access and use of electronic data, provisions for the secure transmission of sensitive personal information on our website, and telephone system authentication procedures. Additionally, we limit access to your personal information to those TIAA employees and agents who need access in order to offer and provide products or services to you. We also require our service providers to protect your personal information by utilizing the privacy and security safeguards required by law.

Your right to opt-out

Providing us with access to your information permits us to offer you distinct advantages and better service. It enables us to provide you with more comprehensive financial guidance. Sharing and using your information helps us tailor product offerings to you and eliminate those that may not interest you. This helps us keep expenses low.

Federal law gives you the right to limit some but not all sharing of your personal information. You may not limit sharing of information of your transactions and experiences with TIAA Companies, but you may limit sharing of information about your creditworthiness.

Unless you tell us otherwise and opt-out, (i) the TIAA Company(ies) with which you have a business relationship may share information about your creditworthiness with other TIAA Companies or (ii) other TIAA Companies may use your personal information for marketing purposes. If you are a Vermont resident, state law gives you an additional right: we will not share information about your creditworthiness with other TIAA Companies except with your consent.

If you opt-out, the TIAA Company(ies) with which you have a business relationship will still notify you of their new products or services. Please note that we cannot withdraw any previous disclosures made with your authorization.

To *opt-out* of either information sharing or marketing or both, please call the National Contact Center, weekdays, 8 a.m. to 10 p.m. (ET) at **800-842-2252**. You may receive more than one privacy notice from the TIAA Companies depending on the products you own.

If you own a life insurance contract, brokerage account, or a TIAA-CREF Funds account with a co-owner, you and the co-owner may:

- Opt-out separately, or
- Either of you may opt-out for both of you.

If you opt-out separately, we will limit disclosure of information only for the owner who has opted out. If you indicate that you are opting out for the co-owner as well, we will limit disclosure for both of you.

Your opt-out becomes effective as soon as practicable. It remains in effect until you revoke it in writing.

Changes in our privacy notice

TIAA periodically reviews its privacy notice and reserves the right to amend it. If amended, TIAA will continue its commitment to maintaining the security and privacy of your personal information. We will notify you of material changes prior to when they take effect through a banner notice in our website, [TIAA.org](https://www.tiaa.org).

How to change or correct your personal information

To change or correct information such as your name, address, retirement start date, telephone number, email address or other personal information, please log in to your TIAA account page at [TIAA.org](https://www.tiaa.org) and submit your changes. If you want to change your address on fewer than all contracts, you will need to select “click here” located under the email section of the page.

You may also change your personal information by calling our National Contact Center at **800-842-2252**, weekdays, 8 a.m. to 10 p.m. (ET). Note that certain changes cannot be processed over the phone. You may send letters to:

TIAA, P.O. Box 1259, Charlotte, NC 28201

For Nevada residents, state law requires that we provide you notice that you have the option to be placed on our Internal Do Not Call list. If you would rather not receive marketing calls from us, please call us at the telephone number provided above.

Former customers

If your customer relationship with TIAA ends, we will not destroy your personal information unless required or permitted by law. We will continue to treat your personal information in accordance with this privacy notice and applicable laws.

Our digital tracking practices

TIAA uses digital tracking technology including, but not limited to, pixels, beacons, and cookies to collect from your computer or other connected device information about you, your internet and website activity, and your preferences. We utilize such information for the following purposes:

- To make our website usable by enabling basic functions, like page loading, account sign-in, and filling out forms;
- To monitor website traffic and activity;
- To maintain security, enable fraud detection, and provide trouble-shooting and support;

- To facilitate an action initiated by you, such as setting or detecting your privacy settings;
- To establish and maintain a logged-in connection while you are in the secure section(s) of our website. For example, when you visit your account, perform transactions, update contact information or perform other activity a “cookie” allows you to navigate from page to page in a secure fashion without having to repeatedly log in;
- To enable us to personalize your web experience by remembering your online preferences including, but not limited to, your preferred language, web layout, or location settings;
- To detect your browser and device capabilities for displaying website content;
- To understand how you interact with our marketing content and use our website, including in some instances identifying the marketing channel through which you have accessed our site; and
- To track your visit across our websites and to serve you targeted advertising and content we think will interest you while you are on our site or visiting non-TIAA sites (“interest-based advertising”).

Personal information collected by our use of digital tracking technology is information that, on its own, might not identify you; however, when such information is combined with other information about you, it may be possible to identify you or your household. In the context of digital tracking technology, such information may include:

- Your identifiers, including your cookie identifier, Internet Protocol address, hashed email address, device identifier, mobile ad identifier, and similar online and unique personal identifiers;
- Your geolocation data; and
- Your internet or other electronic network activity information, such as the time you spent on the website, your navigation throughout the site, and other information regarding your interaction with an internet website, application, or advertisement.

Digital tracking technology may be deployed by us or our service providers, on our behalf, for analytics, marketing, and interest-based advertising services. We and our service providers may rely on other third parties to deliver to you our interest-based advertising on websites or platforms that you may visit while online. TIAA and its service providers do not share your personal information with these third parties to enable interest-based advertising.

How to manage your digital tracking preferences

By visiting our digital preference management center from the Do not sell/share my personal information link at the bottom of our home page, you have the ability to review a current list of digital tracking technology that we allow on our sites and manage your digital tracking preferences, including opting out of interest-based advertising. Please note that your opt-out preferences will be stored in cookies and that if you clear your cookie cache or access our site from another device, we will not have the ability to identify you for the purpose of applying your opt-out choices, and you will need to opt-out again.

Our website detects the Global Privacy Control signal from a number of common browsers, and we will automatically opt you out of interest-based advertising if we detect that you have enabled this signal. To learn more about the Global Privacy Control, please visit globalprivacycontrol.org.

Browsing to other sites:

When you use a link to go from TIAA.org to another web site, the TIAA.org privacy notice is no longer in effect. Your browsing and interaction on any other web site is subject to the rules and policies of that site. We encourage you to read the rules and policies of the sites you visit to further understand their procedures for collecting, using, and disclosing personal information.

The TIAA Companies

As described in this notice, “TIAA”, the “TIAA Companies” or “we” are financial companies using the TIAA and/or Nuveen brands that share a common corporate identity. TIAA Companies include but are not limited to the following:

- **Teachers Insurance and Annuity Association of America** and **TIAA-CREF Life Insurance Company** (TIAA Life) are insurance companies. They provide products such as life insurance and annuities.
- **College Retirement Equities Fund** (CREF) is an investment company that is the companion organization to TIAA. CREF provides retirement annuities.
- **TIAA-CREF Funds** is an investment company.
- **TIAA-CREF Life Funds** is an investment company.
- **Teachers Advisors, LLC**, is an investment advisor. It provides services for our mutual funds and personal annuities.
- **TIAA-CREF Investment Management, LLC**, is the investment advisor to CREF.
- **TIAA-CREF Individual & Institutional Services, LLC**, is the principal underwriter for CREF and the TIAA Real Estate Account and is authorized by agreement to sell and service TIAA-CREF Funds, TIAA-CREF Life Funds, and interests in tuition savings products. It also provides brokerage accounts through TIAA-CREF Brokerage Services.
- **TIAA Trust, N.A.** is a federally chartered, trust-only national bank. It provides investment management, fiduciary and custody services for individuals and institutions.





TIAA Business Continuity: Being prepared

Our business continuity plan covers everything we do at TIAA

- **Backing up and recovering the data in our computer systems**
- **Building redundancy into all critical systems**
- **Minimizing financial, operational and credit risk exposures**
- **Establishing alternate ways to communicate with our participants**
- **Confirming emergency contacts and alternate business facilities for our employees**
- **Arranging emergency procedures with critical business partners, such as banks**
- **Communicating with and reporting to regulators**
- **Ensuring participants have prompt access to their accounts and funds**

At TIAA, we believe that it is important to our participants and institutions that we are prepared to operate through disruptions. To maintain business continuity, we continually review our activities to develop appropriate and robust contingency plans. Where we have business-critical functions, we have put procedures in place to make sure we can continue operating in an emergency. Our participants can feel confident that they can conduct business with TIAA without significant interruption under most circumstances.

Just as we recommend a diversified portfolio to minimize investment risk, we maintain a geographically diverse group of business centers, with principal sites located in New York, New York; Denver, Colorado; Charlotte, North Carolina; and Dallas, Texas. The people, processes and technology necessary to conduct our business are distributed among these sites, with critical business operations conducted at multiple locations. If activity at any one of these sites is disrupted, we can continue operating at the other locations without serious interruption for our participants and institutions.

We believe that the distance between these sites greatly reduces the risk that an event occurring at one site would affect the others. However, just as a diversified portfolio cannot eliminate risk entirely, we recognize that simultaneous disruptions at our principal sites could limit participants' ability to conduct transactions with us. We believe this risk is very small and the likelihood of such an event to be remote. Because other companies provide various services we rely on, we also take into account the strength of these vendors' business continuity plans when determining whether to work with them.

Our planning contemplates disruptions of varying scope, severity and duration, as recommended by FINRA:

TIAA-specific disruption

We have policies and procedures in place intended to mitigate the risk of any disruption that could cause our systems to be temporarily unavailable, such as a virus disabling a computer system. We have also put in place procedures to address unforeseen disruptions to our systems and processes.

Disruption to a single building

We have structured our operations to minimize the impact of a disruption at any one of our buildings. For a disruption impacting a single building, such as a fire, our operations are structured so that all critical and important business functions are performed at multiple locations.

Disruption to a business district

We maintain geographic dispersion of our operations to reduce the risk if there is a disruption in a business district, like an explosion at an electrical substation. Likewise, we have looked for such geographic dispersion in the operations of our vendors and service providers.

Citywide disruption

For a citywide disruption, such as a flood, our response would be the same as for a disruption to a business district in which we are located.

Regional disruption

In the event of a regional disruption, such as a power blackout or snowstorm, we will rely on our facilities located outside the affected region to continue our business. We have procedures and a communication plan in place that will focus our available resources on maintaining critical business functions for the duration of the disruption.

We at TIAA expect business to continue during each of these scenarios. Our business continuity plan aims to recover mission-critical business functions within one hour of a disruption and other critical business functions within 24 hours. Noncritical function recovery is prioritized beyond 24 hours depending on the impact of the disruption.



TIAA Sweep Product Terms and Conditions

The following Terms and Conditions govern your participation in the TIAA Sweep Product to eligible brokerage accounts (each a “Brokerage Account”) provided by the TIAA Brokerage division of TIAA-CREF Individual & Institutional Services, LLC (“TIAA Brokerage”) and carried by its unaffiliated clearing broker, Pershing LLC (“Pershing”). The TIAA Sweep Product is designed to sweep Eligible Cash Balances (as defined below) in your Brokerage Account into bank deposit accounts at EverBank, N.A. (the “Bank”). Currently, cash balances held in a Brokerage Account up to \$248,500 are Eligible Cash Balances. The Bank may change this amount from time to time, as described more fully below.

This document provides you with important information about how the TIAA Sweep Product works. These terms and conditions supplement the terms and conditions contained in the account agreements and related documents which govern your Brokerage Account.

YOU UNDERSTAND THAT BY PROVIDING YOUR AUTHORIZATION TO USE THE TIAA SWEEP PRODUCT, YOU HAVE INSTRUCTED PERSHING TO DIRECT YOUR FREE CREDIT BALANCES TO THIS SWEEP PRODUCT.

YOU ACKNOWLEDGE THAT YOU HAVE RECEIVED AND CAREFULLY READ THESE TERMS AND CONDITIONS IN CONNECTION WITH ENROLLING IN THE TIAA SWEEP PRODUCT. IF YOU HAVE ANY QUESTIONS ABOUT ANY OF THE PROVISIONS OF THESE TERMS AND CONDITIONS, PLEASE CALL TIAA BROKERAGE OR YOUR INVESTMENT PROFESSIONAL.

A. The TIAA Sweep Product

- 1. Operation of the TIAA Sweep Product. TIAA Brokerage.** The TIAA Sweep Product is operated by TIAA Brokerage through Pershing. Under the TIAA Sweep Product, eligible cash balances in your Brokerage Account are automatically swept into interest bearing deposit accounts at the Bank, one for brokerage accounts and one for Managed accounts. These interest bearing deposit accounts are an omnibus interest bearing Demand Deposit Account for managed accounts and an omnibus interest bearing Demand Deposit Account for non-managed accounts and are held in each case in the name of “Pershing LLC as agent for the exclusive benefit of customers, each customer acting for themselves and others” or a similar designation (together, the “**Omnibus Accounts**”).

You maintain a beneficial account interest in the Omnibus Accounts equal to the aggregate amount of your free credit balances that remain in your Brokerage Account after purchase transactions and other charges in your Brokerage Account (such as checks, ACH payments, debit cards and ATM withdrawals), plus the interest that accrues on the amounts transferred into each Omnibus Account (the “**Subaccount**”). The Subaccount will be evidenced by an entry on records maintained by Pershing and not directly on the records of the Bank.

- 2. Account Eligibility.** The following account types are eligible to use the TIAA Sweep Product: individual, joint, IRA and certain organizational accounts, such as corporate accounts and certain fiduciary and trust accounts. TIAA Brokerage reserves the right, in its sole discretion, to amend the types of brokerage accounts that are eligible to participate in the TIAA Sweep Product, as well as modify the eligibility requirements for the TIAA Sweep Product. Brokerage accounts that are brokerage windows to an employer-sponsored retirement plan provided through TIAA are not currently eligible for participation in the TIAA Sweep Product.
- 3. Eligible Cash Balances.** The free credit balances that remain in your Brokerage Account after purchase transactions and other charges in your Brokerage Account (such as checks, ACH payments, debit cards and ATM

withdrawals) are eligible to be deposited into the TIAA Sweep Product (“**Eligible Cash Balances**”). The Bank imposes a maximum amount of Eligible Cash Balances it will receive (“**Maximum Eligible Cash Balance Amount**”)—currently, the amount is \$248,500 per Brokerage Account. The Bank may change the Maximum Eligible Cash Balance Amount from time to time with prior notice to TIAA Brokerage. Interest that accumulates in your account may cause your balance to exceed the Maximum Deposit Amount; however, in no event will the balance exceed the applicable FDIC insurance limit in effect at the time of the change (currently, \$250,000 per legal category of ownership as described more fully below). In addition, if the Bank is no longer accepting deposits, the Bank may change the Maximum Eligible Cash Balance Amount to zero. Eligible Cash Balances in your Brokerage Account which exceed the Maximum Eligible Cash Balance Amount will be deposited into bank deposit accounts with one or more other banks through a separate bank sweep vehicle (“**Overflow TIAA Sweep Product**”). For example, if the Eligible Cash Balance in your Brokerage Account is \$275,000, the first \$248,500 will be deposited under the TIAA Sweep Product and the remaining \$26,500 will be deposited into bank deposit accounts with one or more other banks through the Overflow TIAA Sweep Product. Currently, the Liquid Insured Deposits bank sweep vehicle (“**LIDS**”) operated by Pershing is the Overflow TIAA Sweep Product. LIDS is a separate sweep vehicle subject to separate terms and conditions. See the Liquid Insured Deposits Terms and Conditions for important information about this vehicle and its applicable FDIC insurance limits. The LIDS bank sweep vehicle comprises a number of participating banks; however, the Bank is not one of the participating banks for purposes of the Overflow TIAA Sweep Product.

4. **Minimum Balance Requirements.** There is no minimum Eligible Cash Balance required to either participate in the TIAA Sweep Product or continue to participate in the TIAA Sweep Product. There is also no minimum period that your funds invested in the TIAA Sweep Product (the “**Funds**”) must remain on deposit with the Bank and no limitation on the number or amount of withdrawals that Pershing may affect under the TIAA Sweep Product.
5. **FDIC-insured Accounts.** The TIAA Sweep Product seeks to provide you with the security of FDIC insurance for your Funds. FDIC insurance provides protection against the loss of your Funds on deposit with the Bank under the TIAA Sweep Product, up to allowable limits, in the event the Bank fails. FDIC deposit insurance is backed by the full faith and credit of the United States. Specifically, FDIC deposit insurance coverage is available for your Funds up to the FDIC standard maximum deposit insurance amount (“**SMDIA**”), which is currently \$250,000 per legal category of account ownership at the Bank, when aggregated with all other deposits held by you at the Bank and in the same legal category of account ownership. Please see Appendix A for examples regarding how FDIC coverage works. Eligible Cash Balances in your Brokerage Account up to the Maximum Eligible Cash Balance Amount then in effect may be deposited under the TIAA Sweep Product with the Bank even if the aggregate amount of your Funds on deposit with the Bank through the TIAA Sweep Product together with any other funds that you maintain in the same legal category of ownership with the Bank exceeds the SMDIA. **You are solely responsible for monitoring the aggregate amount that you have on deposit with the Bank and any other bank participating in the Overflow Sweep Program in connection with FDIC insurance limits.** Pershing, TIAA Brokerage, the Bank, and your investment professional do not monitor or take any responsibility for money you may have at the Bank outside the Program or money you have at any bank participating in the Overflow Sweep Program. Money you hold on deposit with the Bank that is separate from your Funds on deposit with the Bank through the TIAA Sweep Product will not be taken into account in determining whether to sweep your Eligible Cash Balances to the Bank through the TIAA Sweep Product. In addition, if you have more than one Brokerage Account with the same legal category of account ownership, the funds in all Brokerage Accounts that participate in the TIAA Sweep Product will be aggregated in order to determine the amount covered by FDIC insurance. For example, if the SMDIA is \$250,000 and you have \$30,000 in Eligible Cash Balances in one Brokerage Account, \$30,000 in Eligible Cash Balances in another Brokerage Account and \$200,000 on deposit with the Bank outside of your Brokerage Account, only \$250,000 of your \$260,000 is insured by the FDIC. Depending on the individual facts and the ownership rights and capacities in which your Brokerage Accounts and deposits with the Bank are held, additional amounts may be covered by FDIC insurance.
6. **Securities Investor Protection Corporation (“SIPC”).** SIPC is a nonprofit member corporation funded primarily by member securities brokerage firms registered with the Securities and Exchange Commission, such as TIAA Brokerage and Pershing. SIPC covers against custodial loss (but not investment loss such as a decrease in value of an investment) in the event of a brokerage firm insolvency. TIAA Brokerage (a registered broker/dealer) and Pershing, which holds your Brokerage Account assets (also a registered broker/dealer), are members of SIPC.
7. **Your Funds are not covered by SIPC.** Your Responsibility to Monitor Your Eligible Cash Investment Options. None of TIAA Brokerage, Pershing or the Bank have any obligation to monitor your Eligible Cash Balance investment options, including the TIAA Sweep Product and the Overflow TIAA Sweep Product for your Brokerage Account, or to make recommendations about or changes to the TIAA Sweep Product, including monitoring your FDIC

insurance limits. As your personal financial circumstances and other factors change, it may be in your interest to change your Eligible Cash Balance investment options or to invest cash from your Brokerage Account in other investment vehicles. You can review your investment options and other investments, as well as the current rates and returns of each by calling TIAA Brokerage at **800-842-2252** or by visiting <https://www.tiaa.org/public/invest/financial-products/brokerage-accounts/interest-rate-disclosure>.

- 8. Deposits with the Bank.** When you enroll in the TIAA Sweep Product, you consent to have Eligible Cash Balances in your Brokerage Account at TIAA Brokerage automatically deposited through the TIAA Sweep Product to the Bank up to the Maximum Eligible Cash Balance Amount then in effect. Each business day (as defined herein), Pershing will sweep the Eligible Cash Balances in your Brokerage Account to the Bank. Only Eligible Cash Balances swept by Pershing to the Bank will be eligible for inclusion in the TIAA Sweep Product. For purposes of these Terms and Conditions, a business day is any day when both the New York Stock Exchange and the New York Branch of the Federal Reserve Bank are open for business (a “**Business Day**”).
- 9. Withdrawals and Access to Funds.** When you enroll in the TIAA Sweep Product, you consent to have your Funds on deposit at the Bank automatically withdrawn in the event of a debit in your Brokerage Account or on the settlement date to reconcile purchase transactions and other charges posted to your Brokerage Account (such as checks, ACH payments, debit cards and ATM withdrawals). Each Business Day, as needed, Pershing will withdraw your Funds on deposit with the Bank.

You cannot withdraw your Funds from the Bank directly. Checks, ACH payments, debit cards, ATM withdrawals, direct deposits, credits and other transactions and items for your Brokerage Account are processed through your Brokerage Account rather than directly with the Bank under the TIAA Sweep Product. In the event of the failure of Pershing, you may seek to access your Funds by contacting TIAA Brokerage at **800-842-2252**. In the event of the failure of TIAA Brokerage, you may seek to access your funds by contacting Pershing at **201-413-3333**. TIAA Brokerage and/or the Bank reserves the right to require you to present any information, identification, certification or any other documentation reasonably deemed necessary by the Bank to establish your entitlement to funds prior to disbursing any funds to you, if circumstances require such action.

In the event of a failure of the Bank, there may be a time period during which you may not be able to access your Funds in the Omnibus Accounts.

- 10. Brokerage Account Statements.** Your periodic Brokerage Account statement from Pershing will summarize account activity with respect to your participation in the TIAA Sweep Product, including your opening and closing balances, deposits, withdrawals, and interest earned on your Funds for the period covered. You will not receive a separate statement from the Bank. Please retain your Brokerage Account statements for your records.

B. About the Bank

- 1. Affiliation and Information.** TIAA Brokerage and the Bank are separate, unaffiliated companies. Pursuant to an agreement between TIAA Brokerage and the Bank, the Bank pays TIAA Brokerage an asset-based fee based on the amount of the non-managed account cash in the Omnibus Accounts that is swept to the Bank. The Bank is a national bank and an FDIC-insured depository institution. You can obtain publicly available financial information about the Bank at the FDIC’s website at fdic.gov, or by contacting the FDIC’s Division of Information and Research by writing to Federal Deposit Insurance Corporation, Division of Information and Research, 550 17th Street, NW, Washington, DC 20429-9990; or by calling the FDIC’s Division of Information and Research at **877-275-3342**. Neither Pershing nor TIAA Brokerage guarantees the financial condition of the Bank, or the accuracy of any publicly available information concerning the Bank.

Your Funds are a direct obligation of the Bank and are not, either directly or indirectly, guaranteed by TIAA Brokerage or Pershing, or any of their subsidiaries, affiliates or parent companies.

- 2. Your Relationship with the Bank.** Although your Funds are a direct obligation of the Bank, you will receive no separate evidence of ownership from the Bank. Instead, the Subaccount will be evidenced by an entry on records maintained by Pershing, as the custodian of your Brokerage Account assets.

C. Interest Rates on Your Deposits

- 1. Interest and Fees.** Your Funds will earn interest and such interest will be compounded daily, and accrued daily on the balance of your Funds with the Bank. The interest will be credited and paid by the Bank at the end of each month, on the date your account closes or when you withdraw all of your Funds. Interest will begin to accrue on the day your Funds are credited to the Bank and will accrue up to, but not including, the day on which

your Funds are withdrawn from the Bank. The amount of paid interest and the annual percentage yield earned on your Funds will be stated on your Brokerage Account statement.

2. **Determination of Interest Rates.** Interest rates paid on your Funds will fluctuate and are subject to change at any time. To find out the current interest rate being paid on your Funds, you may contact TIAA Brokerage by calling **800-842-2252** or by visiting <https://www.tiaa.org/public/invest/financial-products/brokerage-accounts/interest-rate-disclosure>.
3. **Risks.** You may receive a lower rate of return on your Funds deposited under the TIAA Sweep Product than on other sweep options such as money market mutual funds. In the event of a failure of the Bank, there may be a time period during which you may not be able to access your Funds. If the total amount of deposits that you hold at the Bank in the same legal category of account ownership (including deposits made through the TIAA Sweep Product, deposits you hold outside of the TIAA Sweep Product and other Brokerage Accounts that participate in the TIAA Sweep Product) exceeds applicable FDIC insurance limits, you will be exposed to the credit risk of the Bank with respect to the amount of the excess.

D. Conflicts of Interest

1. **Conflicts of Interest.** TIAA Brokerage and Pershing earns fees based on the amount of funds on deposit with the Bank through the TIAA Sweep Product. TIAA Brokerage may earn a higher fee if you participate in the TIAA Sweep Product than if you invest in other sweep options such as money market mutual funds. In addition, the Bank will use the deposits in the Omnibus Accounts to support its investment lending and other activities. The profitability of the Bank is determined in part by the difference between the interest it pays on the Omnibus Accounts (and other costs incurred), and the interest or other income it earns on loans, investments and other assets. The Bank will receive substantial deposits from the TIAA Sweep Product at a price that may be less than alternative funding sources. Funds in the Omnibus Accounts held at the Bank provide a stable source of funds for the Bank.

E. Other Provisions

1. **Brokerage Account Agreement.** You understand and agree that your Brokerage Account Agreement with TIAA Brokerage continues to govern your Brokerage Account and shall also govern your participation in the TIAA Sweep Product. If any provision of the Brokerage Account Agreement conflicts with provisions of these Terms and Conditions, the provisions of the Brokerage Account Agreement shall govern, with the exception of the Sections herein on Governing Law and Disputes. You understand that by continuing to maintain your Brokerage Account without objecting to the use of the TIAA Sweep Product, you accept and are legally bound by the provisions of these Terms and Conditions.
2. **Right of Set-Off.** Under the terms of your Brokerage Account Agreement, Pershing may charge or setoff any of the assets in your Brokerage Account, including the Funds, against indebtedness or obligations you may have to Pershing. For further information on the rights of Pershing regarding such indebtedness or obligations, you should review your Brokerage Account Agreement. This provision does not apply where otherwise prohibited by law.
3. **Termination; Closing of Account.** Pershing may, at its sole discretion and without any prior notice, suspend or terminate your participation in the TIAA Sweep Product. If you or Pershing close your Brokerage Account for any reason, your participation in the TIAA Sweep Product will also be terminated and Pershing will withdraw your Funds on deposit with the Bank.
4. **Inactive Accounts.** Pershing and the Bank may be required by law to turn over (escheat) any portion or all of your Funds on deposit with the Bank to a state, typically your state of residence, based on account inactivity for a certain time period established by applicable state law. If any of your Funds are remitted to the state, you may file a claim with the state to recover such funds.
5. **Joint Account Owners.** If your Brokerage Account is a joint or other multi-party account, any one of the account owners may take any action with respect to your Brokerage Account that will affect deposits to or withdrawals from the Bank through the TIAA Sweep Product. You hereby authorize Pershing to act on the verbal, written or electronic instructions of any of the account owners or authorized signers, and Pershing will so honor the instructions of any such account owner.
6. **Tax Reporting.** The interest that you earn on the daily balance of your Funds with the Bank is generally fully subject to federal, state and, where applicable, local tax. An IRS Form 1099 will be sent to you by Pershing each year, showing the amount of interest income you have earned on your Funds. Pershing may be required to

withhold U.S. federal income tax at the prevailing rate on all taxable distributions payable to certain participants in the TIAA Sweep Product who fail to provide their correct taxpayer identification number or make required certifications or who have been notified by the Internal Revenue Service that they are subject to backup withholding.

- 7. Notices and Information.** Any notice required to be provided pursuant to these Terms and Conditions may be provided by the Bank, TIAA Brokerage and Pershing via letter, email or other electronic means, by entry on your Brokerage Account statement or by other reasonable means. The current interest rate and other information about the TIAA Sweep Product are available by contacting TIAA Brokerage by calling **800-842-2252** or by visiting TIAA.org.
- 8. Notice of Unauthorized Activity.** Please refer to the Regulation E (Electronic transfer) section of the Disclosure Statement delivered to you by Pershing upon opening of your Brokerage Account, which can also be found at <https://www.pershing.com/global-assets/pdf/disclosures/per-disclosure-statement.pdf>
- 9. Business Continuity.** If you are unable to contact TIAA Brokerage due to a business interruption event, such as a natural disaster, you may contact Pershing.
- 10. Assignment by Customer.** Neither these Terms and Conditions nor your participation in the TIAA Sweep Product may be assigned or transferred by you to any other person or entity, except for (i) a transfer by a change in ownership of a linked Brokerage Account or (ii) a transfer that occurs due to death, incompetence, marriage, divorce, attachment or otherwise by operation of law, in which case, such transfer shall not be binding on Pershing, TIAA Brokerage or the Bank unless and until sufficient, acceptable documentation has been received by such entities.
- 11. Assignment by Pershing.** Pershing may assign and transfer its respective rights and obligations under the TIAA Sweep Product, including, without limitation, pursuant to these Terms and Conditions, to (i) one or more of its affiliates or subsidiaries, (ii) to any person that acquires all or substantially all of the assets of Pershing or (iii) any other clearing broker used by TIAA Brokerage without prior notice to you and without obtaining your consent.
- 12. Personal Information.** You agree that Pershing, TIAA Brokerage the Bank and their respective service providers may share information concerning you and your accounts in connection with your participation in the TIAA Sweep Product and these Terms and Conditions to any affiliate of such entity or otherwise in accordance with applicable laws and regulations and Pershing's and TIAA Brokerage respective privacy policies. You agree that Pershing, TIAA Brokerage the Bank and their respective service providers may obtain such information as may be necessary for legitimate business needs in connection with the operation of the TIAA Sweep Product or with respect to your Funds. For information regarding the collection, processing and use of your personal information and your rights to limit the use and disclosure of such information, you should refer to TIAA Brokerage and Pershing's privacy policies provided to you at the time you opened your Brokerage Account.
- 13. Complaints.** Any complaints regarding the TIAA Sweep Product should be addressed in writing to TIAA Brokerage.
- 14. Legal Process.** Pershing and the Bank may comply with any writ of attachment, execution, garnishment, tax levy, restraining order, subpoena, warrant or other legal process, which such party reasonably and in good faith believes to be valid. Pershing may notify you of such process by telephone, electronically or in writing. If Pershing is not fully reimbursed for its record research, photocopying and handling costs by the party that served the process, Pershing may charge such costs to your Brokerage Account in addition to its minimum legal process fee. You agree to indemnify, defend and hold the Bank, TIAA Brokerage and Pershing harmless from all actions, claims, liabilities, losses, costs, attorney's fees and damages associated with their compliance with any process that such party believes reasonably and in good faith to be valid. You further agree that the Bank, TIAA Brokerage and Pershing may honor legal process that is served personally, by mail or by facsimile transmission at any of their respective offices (including locations other than where the funds, records or property sought is held), even if the law requires personal delivery at the office where your records with respect to the TIAA Sweep Product are maintained.
- 15. Power and Authority.** You represent and warrant that you have full power and authority to participate in the TIAA Sweep Product and you agree to these Terms and Conditions. In addition, if you are not an individual, you represent and warrant that (1) you are duly organized, validly existing and in good standing under the laws of its state or jurisdiction of organization, (2) you possess all requisite authority, power, licenses, permits, registrations and franchises and have made all governmental filings to conduct business wherever it conducts business and

to execute, deliver and comply with your obligations hereunder, and (3) your agreement to these Terms and Conditions and performance hereunder shall not conflict with or violate your governing documents or any law, regulation, decree, demand, order or any other contract or agreement to which it is subject.

- 16. Amendment.** Pershing, TIAA Brokerage or the Bank may modify these Terms and Conditions at any time by giving such notice as may be required by applicable law.
- 17. Waiver.** Any provision of these Terms and Conditions may be waived if, but only if, such waiver is in writing and is signed by the party against whom the waiver is to be effective. No failure or delay by any party in exercising any right, power or privilege hereunder shall operate as a waiver thereof nor shall any single or partial exercise thereof preclude any other or further exercise thereof or the exercise of any other right, power or privilege.
- 18. Severability.** If any term, provision, covenant or restriction in these Terms and Conditions is held by a court of competent jurisdiction or other authority to be invalid, void or unenforceable, the remainder of the terms, provisions, covenants and restrictions of these Terms and Conditions shall remain in full force and effect and shall in no way be affected, impaired or invalidated.
- 19. Entire Agreement.** These Terms and Conditions constitute the entire agreement with you regarding the TIAA Sweep Product, and supersedes all prior and contemporaneous agreements and understandings, both oral and written, with respect to the subject matter hereof. In the event of any inconsistency between a provision of these Terms and Conditions and a provision of any such other document provided to you in connection with the TIAA Sweep Product (other than your Brokerage Account Agreement), the provision of these Terms and Conditions shall prevail.
- 20. Governing Law.** These Terms and Conditions are to be construed in accordance with and governed by the internal laws of the State of Florida and the United States of America without giving effect to any choice of law rule that would cause the application of the laws of any other jurisdiction to the rights and duties of the parties. Unless otherwise provided herein, the Bank, TIAA Brokerage and Pershing may comply with applicable clearinghouse, Federal Reserve and correspondent bank rules in processing transactions relating to your Funds. You agree that none of the Bank, TIAA Brokerage or Pershing are required to notify you of a change in those rules, except to the extent required by law.
- 21. Disputes.** Except to the extent otherwise provided by applicable law, any action at law or in equity arising out of or relating to these Terms and Conditions shall be filed only in the courts of the State of New York, or in one of the United States District Courts for New York, and you hereby consent and submit to the personal jurisdiction of such courts for the purposes of litigating any such action. EACH OF THE PARTIES HERETO HEREBY IRREVOCABLY WAIVES ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL PROCEEDING ARISING OUT OF OR RELATED TO THESE TERMS AND CONDITIONS.

Appendix A: Examples of FDIC Insurance Protection

The summary of FDIC deposit insurance laws and regulations contained herein is not intended to be a full restatement of applicable laws and FDIC regulations and interpretations. In addition, the applicable laws and FDIC regulations and interpretations may change from time to time and, in certain instances, additional terms and conditions may apply which are not described in herein. Accordingly, the discussion herein is qualified in its entirety by applicable laws and the FDIC regulations and interpretations. You are urged to discuss with your attorney, the insurance coverage afforded to your Funds, including your Funds deposited under the TIAA Sweep Product. You may also write to the following address: FDIC Office of Consumer Affairs, 550 17th Street, N.W., Washington, D.C. 20429.

What is the FDIC?

The FDIC—short for the Federal Deposit Insurance Corporation—is an independent agency of the United States government. The FDIC protects depositors of insured banks located in the United States against the loss of their deposits if an insured bank fails. Any person or entity can have FDIC insurance coverage in an insured bank. A person does not have to be a U.S. citizen or resident to have his or her deposits insured by the FDIC. FDIC insurance is backed by the full faith and credit of the United States government. Since the FDIC began operations in 1934, no depositor has ever lost a penny of FDIC-insured deposits.

FDIC Coverage Basics

FDIC insurance covers depositors' accounts at each insured bank, dollar-for-dollar, including principal and any accrued interest through the date of the insured bank's closing, up to the insurance limit. FDIC insurance covers all types of deposits received at an insured bank but does not cover investments, even if they were purchased at an insured bank.

What the FDIC Covers

- Checking accounts (DDA)
- Negotiable Order of Withdrawal (NOW) accounts
- Savings accounts
- Money market deposit accounts (MMDA)
- Time deposits such as certificates of deposit (CDs)
- Cashier's checks, money orders and other official items issued by a bank

What the FDIC Does Not Cover

- Stock investments
- Bond investments
- Mutual funds
- Life insurance policies
- Annuities
- Municipal securities
- Safe deposit boxes or their contents
- U.S. Treasury bills, bonds or notes*

* These investments are backed by the full faith and credit of the U.S. government.

The standard deposit insurance amount is \$250,000 per depositor, per insured bank, for each account ownership category.

The FDIC insures deposits that a person holds in one insured bank separately from any deposits that the person owns in another separately chartered insured bank. For example, if a person has a certificate of deposit at Bank A and has a certificate of deposit at Bank B, the amounts would each be insured separately up to \$250,000. Funds deposited in separate branches of the same insured bank are not separately insured. The FDIC provides separate insurance coverage for funds depositors may have in different categories of legal ownership. The FDIC refers to these different categories as "ownership categories." This means that a bank customer who has multiple accounts may qualify for more than \$250,000 in insurance coverage if the customer's funds are deposited in different ownership categories and the requirements for each ownership category are met.

Ownership Categories

This section describes the following FDIC ownership categories and the requirements a depositor must meet to qualify for insurance coverage above \$250,000 at one insured bank.

- Single Accounts
- Certain Retirement Accounts
- Joint Accounts
- Revocable Trust Accounts
- Irrevocable Trust Accounts
- Employee Benefit Plan Accounts
- Corporation/Partnership/Unincorporated
- Association Accounts
- Government Accounts

Single Accounts

A single account is a deposit owned by one person. This ownership category includes:

- An account held in one person’s name only, provided the owner has not designated any beneficiary(ies) who are entitled to receive the funds when the account owner dies
- An account established for one person by an agent, nominee, guardian, custodian or conservator, including Uniform Transfers to Minors Act accounts, escrow accounts and brokered deposit accounts
- An account held in the name of a business that is a sole proprietorship (for example, a “Doing Business As” or DBA account)
- An account established for or representing a deceased person’s funds—commonly known as a decedent’s estate account
- An account that fails to qualify for separate coverage under another ownership category
- If an account title identifies only one owner, but another person has the right to withdraw funds from the account (e.g., as Power of Attorney or custodian), the FDIC will insure the account as a single ownership account.

The FDIC adds together all single accounts owned by the same person at the same bank and insures the total up to \$250,000.

Note on Beneficiaries: If the owner of a single account has designated one or more beneficiaries who will receive the deposit when the account owner dies, the account would be insured as a revocable trust account.

Example 1: Single Account

Account Title	Deposit Type	Account Balance
Marci Jones	MMDA	\$15,000
Marci Jones	Savings	\$20,000
Marci Jones	CD	\$200,000
Marci’s Memories (a Sole Proprietorship)	Checking	\$25,000
Total		\$260,000
Amount Insured		\$250,000
Amount Uninsured		\$10,000

Explanation

Marci Jones has four single accounts at the same insured bank, including one account in the name of her business, which is a sole proprietorship. The FDIC insures deposits owned by a sole proprietorship as the single account of the business owner. The FDIC combines the four accounts, which equal \$260,000, and insures the total balance up to \$250,000, leaving \$10,000 uninsured. For additional examples of FDIC insurance coverage, please see <https://www.fdic.gov/deposit/deposits/brochures/your-insured-deposits-english.pdf>.

Liquid Insured DepositsSM

Terms and Conditions

I. Introduction

The Liquid Insured DepositsSM product (the "**Product**") is offered to you by your investment professional or financial organization ("**Investment Professional**") at the broker dealer that introduced your account ("**IBD**") to Pershing LLC ("**Pershing**"), which acts as custodian of the assets in your account, as a sweep option and is intended for the investment of available cash balances into bank deposit accounts. By selecting the Product as your automatic cash investment option, you agree to these Terms and Conditions and to appoint Pershing as your authorized agent to establish and maintain bank deposit accounts at various depository institutions that participate in the Product, which may include The Bank of New York Mellon ("**BNYM**") and BNY Mellon, National Association ("**BNY Mellon, N.A.**") (collectively, "**Program Banks**"), and to effect deposits to and withdrawals from such Program Banks pursuant to these Terms and Conditions. Pershing has appointed Reich & Tang Deposit Solutions, LLC ("**R&T**") to provide certain services with respect to the operation of the Product. There is no minimum amount required as an initial deposit or for subsequent deposits. Subject to certain exceptions, the maximum amount of Federal Deposit Insurance Corporation ("**FDIC**") deposit insurance coverage available under the Product for your bank deposits currently is \$2.5 million for each category of legal ownership as more fully explained below.

These Terms and Conditions for the Product are supplemental to those contained in your existing account agreements you executed to open and maintain with Pershing through your Investment Professional.

YOU UNDERSTAND THAT TO ENROLL IN THE PRODUCT, YOU HAVE EITHER (1) RECENTLY INSTRUCTED YOUR INVESTMENT PROFESSIONAL TO DIRECT YOUR CASH PENDING INVESTMENT TO THIS INSURED BANK DEPOSIT SWEEP OPTION, OR (2) GIVEN YOUR REGISTERED INVESTMENT ADVISOR OR INVESTMENT PROFESSIONAL DISCRETION TO MAKE INVESTMENT DECISIONS FOR YOUR ACCOUNT.

YOU ACKNOWLEDGE THAT YOU HAVE RECEIVED AND CAREFULLY READ THESE TERMS AND CONDITIONS AS WELL AS THE DISCLOSURES WITH RESPECT TO INTEREST RATES IN CONNECTION WITH CHOOSING TO ENROLL IN THE PRODUCT. IF YOU HAVE ANY QUESTIONS ABOUT ANY OF THE PROVISIONS OF THESE TERMS AND CONDITIONS, PLEASE CALL YOUR INVESTMENT PROFESSIONAL.

II. Summary of Terms and Conditions

This Section II of the Terms and Conditions is a summary of certain features of the Product. It is prepared for your convenience and must be read in conjunction with the more detailed disclosure below.

A Summary of the Product: Pershing operates the Product which, if you choose to participate, automatically purchases, or sweeps, your excess cash balances in your brokerage account in custody at Pershing ("**Account**") to demand deposit accounts ("**DDAs**") and/or money market deposit accounts ("**MMDAs**"; together with DDAs, "**Deposit Accounts**") at Program Banks in accordance with the allocation methodology described in Section III. J, Allocations to Program Banks, and sweeps your balance in those various Program Bank Deposit Accounts as necessary to cover purchases of securities and other debits in your Account. You receive interest on your balances held on deposit at the various Program Banks.

FDIC Insurance: Your funds are routed through an intermediary bank and deposited into interest-bearing Deposit Accounts at the FDIC member Program Banks, which are all insured depository institutions ("**IDIs**"), that hold your and other customers' funds, and in which you will hold a beneficial interest. Your deposits, plus interest earned thereon, ("**Liquid Insured Deposits**"), are held in those Program Bank account(s) in a manner designed to currently provide your Liquid Insured Deposits balance with pass-through FDIC insurance coverage from those IDIs for a total of up to a maximum level of \$2.5 million under the Product. Pershing, as your agent, allocates your Liquid Insured Deposits among a number of IDI Program Bank accounts up to the total balance allowable under the Product, currently \$2,490,000 (the "Product Deposit Limit"), to seek to maximize the FDIC deposit insurance coverage available under the Product, which protects your deposits in the event of a bank failure. FDIC deposit insurance coverage is normally available for your Liquid Insured Deposits up to the FDIC standard maximum deposit insurance amount ("**SMDIA**"), which is currently \$250,000 per legal category of account ownership at each participating Program Bank when aggregated with all other deposits held by you in the same Program Bank and in the same legal category of account ownership. While the target FDIC insurance coverage on Product balances is \$2.5 million on your total Liquid Insured Deposits balance, the maximum amount of FDIC insurance coverage available to is subject to availability of Program Banks. In any event, the maximum amount of FDIC insurance available cannot exceed the SMDIA per legal category of account ownership multiplied by the number of participating Program Banks that you have not excluded from receiving your deposits through the Product, less any funds you may hold in a Program Bank outside of the Product in the same legal category of account ownership. For example, based on the SMDIA of \$250,000 per legal category of account ownership per Program Bank and an assumption that there are eleven or more Program Banks eligible to receive your deposits through the Product, and provided that you do not have any funds on deposit at a Program Bank outside of the Product, the amount of FDIC insurance coverage available on your Liquid Insured Deposits balance would be \$2.5 million per legal category of account ownership. Pershing will notify you if, at any time, this target level of FDIC insurance coverage of \$2.5 million on Product balances is changed.

It is important to note that Pershing, R&T, your Investment Professional and your IBD are non-bank entities and are not FDIC members. The Product itself is NOT FDIC-insured. Rather, through the Product, the cash balance in your Account is swept into deposit accounts at various Program Banks, which are all FDIC member IDIs. Those balances held at the Program Banks are eligible for FDIC insurance coverage up to the current maximum deposit insurance amount of \$250,000 per eligible depositor at each IDI Program Bank, for each eligible category of ownership or capacity, including any other balances you may hold at that IDI directly or through other intermediaries, including other broker-dealers. The Product is intended to direct the cash balance in your Account to multiple FDIC member Program Banks in a manner intended to secure pass-through FDIC insurance coverage on your Product balance from each Program Bank. Subject to certain exceptions, the maximum amount of FDIC deposit insurance coverage available on your bank deposits held in the Product is currently \$2.5 million for each eligible category of legal ownership as more fully explained below.

Pershing has established standing instructions with each Program Bank to help ensure that Pershing always maintains control over your funds at each Program Bank. Pershing uses the services of R&T to perform allocations among the Program Banks in accordance with the allocation methodology described in Section III. J, Allocations to Program Banks, to seek to maximize FDIC insurance coverage on your balance in the Product. However, any money that you hold at a Program Bank outside the Product may impact the insurance coverage available, as neither Pershing, your Investment Professional, your IBD nor R&T monitors or takes any responsibility for money you may have at a Program Bank outside the Product. You are solely responsible for monitoring this. As such, you should regularly review the then current list of Program Banks carefully. A current list is attached, and the Program Banks holding your money upon each interest reinvestment will also be listed on your Account statements. You have the right to instruct that your Liquid Insured Deposits are not allocated to a particular Program Bank. See Sections G, FDIC Deposit Insurance: Operations and Limitations, and H., Ability to Exclude Program Banks.

Securities Investor Protection Corporation ("SIPC**");** SIPC insures certain customer assets held at broker-dealers, such as Pershing, in the event of the failure of the broker-dealer. Although SIPC covers securities in client brokerage accounts up to \$500,000 (including a maximum of \$250,000 for uninvested cash held in the brokerage account), the deposits made through the Product are not insured by SIPC. Note that SIPC does not insure against the loss of value of any investment or product. See Section B, Differences Between Liquid Insured Deposits and Money Market Funds. If however, the sweep activity in your Account will cause the Product balance to exceed the current Product Deposit Limit, the amount above the Product Deposit Limit ("**Excess Balance**") will be automatically swept into the secondary sweep option in your Account that was selected by your IBD or your Investment Professional, which may be a money market mutual fund ("**Money Fund**"). Balances in a Money Fund are not eligible for FDIC insurance coverage, but are eligible for SIPC coverage up to applicable limits. If your IBD or Investment Professional has not selected a secondary sweep option in your Account, Pershing, as your agent, will automatically sweep any Excess Balance into the Dreyfus Government Cash Management Service Shares Money Fund (Ticker symbol DGUXX). For more information about SIPC coverage see www.sipc.org.

Access to Funds: You will access your funds in the Product only through your Account, by contacting your Investment Professional or IBD. In the event of the failure of your Investment Professional or IBD, you may seek to access your funds by contacting Pershing at 1-201-413-3333. In the event of the failure of Pershing, you may seek to access your funds by contacting R&T at 1-800-433-1918 or the designated trustee or receiver of Pershing. As explained in Section III. L., Account Statements, your Account statements will list the names of the Program Banks holding your money and the balance at each upon each interest reinvestment. See Section III. F., Withdrawals.

Determination of Interest Rates: Interest rates fluctuate and are based on the prevailing interest rates paid by the Program Banks. Product interest rates are available from your Investment Professional. See Section III. K., Interest, Negative Interest Rates and Compensation to Pershing and R&T.

Conflicts of Interest: Pershing and R&T earn fees on the balances in the Product, including your money. Your IBD will receive a portion of the fee paid to Pershing by the Program Banks, which it can choose to share with your Investment Professional, with the exception of Pershing Advisor Solutions LLC ("**Pershing Advisor Solutions**") which does not share these fees with Investment Advisers. Pershing, your Investment Professional and IBD may earn a higher fee if you participate in the Program than if you invest in other cash sweep products, such as money market mutual funds. Your Investment Professional, IBD and Pershing may be affiliated with one or more Program Banks. If a portion of your Product balance is allocated to BNYM and BNY Mellon, N.A., they will realize an economic benefit from them. The Program Banks, including BNYM and BNY Mellon, N.A. do not have a duty to offer the highest rates available or rates that are comparable to money market mutual funds or those offered by other depository institutions. See Section III. K., Interest, Negative Interest Rates and Compensation to Pershing and R&T.

Risks of the Product: You may receive a lower rate of return on money deposited through the Product than on other types of money market investments, such as money market mutual funds. Program Banks are permitted to impose a seven-day delay on any withdrawal request for amounts placed in MMDAs. In the event of a failure of a Program Bank, there may be a time period during which you may not be able to access your money. If you have money at a Program Bank outside the Product, this will negatively impact the availability of FDIC insurance coverage on the total amount of your funds held within and outside the Product. If you have on deposit through the Product, funds in an amount of money that exceeds the number of Program Banks that you have not excluded multiplied by the SMDIA, the balance in excess of that amount will not be insured by the FDIC. If you exclude one or more Program Banks, the amount of FDIC insurance coverage available on your balance in the Product may decrease. In the event there is insufficient availability of Program Banks to fully allocate your balances, there is a potential that your Product balance may not be fully insured up to \$2,500,000. In the event the Product cannot accept any additional deposits, the sweep feature on your Account may be updated to prevent any further sweep deposits into the Product from your Account. If this occurs, an available cash balance in your Account would no longer be automatically invested into the Product and would remain a free credit balance in your Account. If you have concerns about the risks of this Product, contact your IBD or Investment Professional about alternatives available to you.

III. Detailed Terms and Conditions

A. Account Eligibility

This Product is available to the following types of accounts: individual, joint, IRAs, certain business entities including corporations, and certain fiduciary and trust accounts provided the beneficiaries are individuals or otherwise eligible to maintain a bank deposit. To obtain FDIC insurance in the Program, you must provide proper and correct tax identification information to Pershing.

B. Differences between the Liquid Insured Deposits Product and Money Market Mutual Funds

The money market mutual funds made available through your Investment Professional or IBD are registered with the U.S. Securities and Exchange Commission ("**SEC**") under both the Investment Company Act of 1940 and the Securities Act of 1933. The Liquid Insured Deposits Product made available through Pershing is not a registered fund, but a product under which the uninvested cash in your Account is swept to, and held in, Deposit Accounts at Program Banks that are regulated by bank regulatory agencies under various federal and/or state banking laws and regulations.

Liquid Insured Deposits are obligations of the Program Banks in which the deposits are held and qualify for FDIC insurance protection per depositor in each recognized legal category of account ownership in accordance with the rules of the FDIC. An investment in a money market mutual fund is not insured or guaranteed by the FDIC.

A Program Bank account under the Product is not covered by the SIPC. SIPC is a non-profit member corporation funded primarily by member securities brokerage firms registered with the SEC. SIPC provides protection against risks to clients of member brokerage firms, like Pershing and your IBD, in the event of the failure of that member firm. SIPC covers securities in client brokerage accounts up to \$500,000 (including a maximum of \$250,000 for uninvested cash held in the brokerage account). However, SIPC does not insure against the failure of the issuer of securities and does not guarantee bank deposits. For more information about SIPC coverage see www.sipc.org.

Your Liquid Insured Deposits balance earns interest at the Program Banks in which your deposits are held, and a money market mutual fund investment earns dividends on fund shares held in your Account. The interest earned on your Liquid Insured Deposits balance may fluctuate and may be greater or less than the then current yield on a money market mutual fund investment. Please see Section K, Interest and Compensation to Pershing and R&T.

While a registered investment company, such as a money market mutual fund, is bound by fiduciary obligations to its shareholders to seek the highest rates prudently available (less fees and expenses), Pershing, R&T, and the Program Banks are under no such obligation.

Of course, you may also be able to choose, as an automatic cash investment option, other sweep alternatives. Please call your Investment Professional or IBD for additional information.

C. Relationship with Pershing

Pershing is acting as your agent in establishing and maintaining Program Bank accounts, including depositing your money to and withdrawing your money from the Program Bank accounts. Having instructed your Investment Professional or IBD to enroll you in the Product, your first bank deposit will constitute your appointment of Pershing as your agent to establish and maintain Program Bank accounts and to effect deposits to and withdrawals from such Program Bank accounts in connection with the Product. Pershing has reviewed the Program Banks which maintain the account(s) used for the deposit or withdrawal of your money. Pershing retains R&T to operate the allocation methodology described in Section III. J, Allocations to Program Banks that determines into which Program Bank(s) your money will be deposited to maximize the amount of FDIC insurance available to you under the Product up to the Product limit.

D. Information about Pershing, Pershing Advisor Solutions and R&T

Pershing, a wholly owned indirect subsidiary of The Bank of New York Mellon Corporation, is a registered broker-dealer in securities and is a member organization of the New York Stock Exchange (NYSE), the Financial Industry Regulatory Authority ("**FINRA**") and SIPC. BNYM is a NY state-chartered bank and BNY Mellon, N.A. is a national banking association. Both BNYM and BNY Mellon, N.A. may participate in the Product by holding your funds in Deposit Accounts and both are affiliates of Pershing. Pershing, BNYM and BNY Mellon, N.A. are BNY Mellon companies. BNY Mellon is the corporate brand for The Bank of New York Mellon Corporation. Pershing Advisor Solutions is also a wholly owned indirect subsidiary of The Bank of New York Mellon Corporation and a registered broker-dealer and member of FINRA and SIPC. If your Account was introduced to Pershing by your registered investment adviser ("**Investment Adviser**") through Pershing Advisor Solutions, Pershing Advisor Solutions relies on Pershing to provide clearing, custody, execution, and other broker-dealer services. R&T assists Pershing in the allocation of your funds to Program Banks and may also maintain certain records on behalf of Pershing. It is not, itself, a bank, broker-dealer, or investment adviser and does not hold any of your Liquid Insured Deposits.

Program Banks may be affiliated with Pershing, your Investment Professional or your IBD from time to time. Program Banks that are affiliated with Pershing, your Investment Professional or your IBD may be given sequence priority to receive deposits or may operate under terms that are not available to unaffiliated Program Banks. For a list of affiliated Program Banks and other related disclosures please contact your Investment Professional. R&T is not affiliated with any of the Program Banks.

E. Deposits

By enrolling in the Product, you consent to have the available cash balance pending investment in your Account automatically deposited into accounts at Program Banks. Once enrolled in the Product, each business day, Pershing, or its agent bank, based on the output of the allocation services of R&T, will deposit the available cash balance in your Account to one or more omnibus Deposit Accounts maintained at the Program Banks entitled "Pershing LLC as Agent for the Exclusive Benefit of its Customers, Acting For Themselves and For Others" or substantially similar. Your Liquid Insured Deposits ownership will be evidenced by an entry on records maintained by Pershing and R&T, as Pershing's agent and record keeper, for each of the Program Banks at which your funds are on deposit. You will not be issued any evidence of ownership of a Program Bank account, such as a passbook or certificate. However, your Account statement will reflect all deposits, withdrawals, Program Bank deposit balance(s) and the applicable interest rate.

Funds intended for deposit into the Product must be placed through your Account and cannot be placed directly by you with any of the Program Banks. Only balances transferred by Pershing will be eligible for inclusion in a Program Bank account. Excess cash balances in your Account on each business day will be transferred to Program Bank accounts no later than the next business day.

Unless your IBD has instructed Pershing otherwise, once your Product balance reaches the current Product Deposit Limit of \$2,490,000, Pershing, as your agent, will automatically sweep any Excess Balance in your Account into the secondary sweep option in your Account as described in more detail below.

F. Withdrawals

By enrolling in the Product, you consent to have your money on deposit at the Program Bank(s) automatically withdrawn from the Program Bank accounts in the event of a debit in your Account or, on settlement date, for a securities purchase in your Account. Each business day as needed, Pershing or its agent bank, based on the output of the allocation services of R&T, will withdraw your balance from the omnibus Deposit Accounts maintained at the Program Banks.

You may make withdrawals from the Product, in any amount, not to exceed your total account balance in the Product, through your Account. Withdrawals from the Product cannot be made directly by you through any of the Program Banks. Checks, ACH payments, debit cards, ATM withdrawals, direct deposits, credits, and other transactions occurring in your Account are processed through that account rather than through the Product accounts.

If your Product balance exceeds the Product Deposit Limit and the Excess Balance from your Account is swept into a secondary sweep option, the balance in that secondary sweep option will be used first to satisfy debits in your Account before withdrawals are made from your Product balance.

G. FDIC Deposit Insurance: Operation and Limitations

Your balance in the Liquid Insured Deposits is deposited into omnibus Deposit Accounts at the Program Banks in a manner currently designed to provide up to a minimum target level of \$2.5 million of FDIC insurance coverage on your Product balance, subject to certain exceptions described herein. The FDIC insurance coverage on your Product balance will be limited to the extent that you hold deposits directly, or through others, in the same recognized legal category of ownership at the same Program Banks as you hold deposits through the Product. The FDIC protects bank deposits in the event a Program Bank fails. FDIC deposit insurance is backed by the full faith and credit of the United States. Specifically, FDIC deposit insurance coverage shall be available on a pass-through basis from each Program Bank holding your Liquid Insured Deposits up to the SMDIA, which is currently \$250,000 per legal category of account ownership at each participating Program Bank, but will be aggregated with all other deposits held by you in the same Program Bank both within and outside the Product and in the same legal category of account ownership.

During the business day when your funds are transferred and being deposited into the Product, your funds will be held for a limited amount of time intraday at an intermediary bank prior to being allocated and distributed among the Program Banks. Once transferred from the intermediary bank to the Program Banks, the funds will be insured. The Product has been designed to facilitate the movement of funds in a timely manner each day. Pershing expects that your funds will be sent by the intermediary bank to the Program Banks by the close of business each day. However, in the event of a failure of wire transfer systems or communications facilities or other causes beyond Pershing's control, resulting in your funds not being sent to the Program Banks in a timely manner and remain held at the intermediary bank or any Program Bank, your funds could, to the extent they exceed the current SMDIA, be uninsured until the next business day.

Your Product balance is allocated among to the Program Banks in a manner intended to maximize the potential FDIC deposit insurance coverage up to the total balance allowable under the Product, currently \$2,490,000 ("Product Deposit Limit"). Pershing and R&T, in their sole discretion, may change the Product Deposit Limit. The total deposit for you at any Program Bank is set at a level below \$250,000 (i.e., below the SMDIA) to ensure that the sum of the principal and accrued interest at a Program Bank does not exceed \$250,000. For this same reason, the Product Deposit Limit is set at

\$2,490,000. The maximum deposit at each Program Bank is currently set at \$245,000 and the Product Deposit Limit is \$2,490,000. Based on the level of interest rates and other factors, Pershing may change these amounts in the future. In the aggregate, the maximum amount of Liquid Insured Deposits eligible for FDIC deposit insurance coverage shall not exceed the SMDIA per legal category of account ownership multiplied by the number of participating Program Banks in the Product that you have not excluded from receiving your deposits, less any funds that you may hold on deposit in the Program Banks outside of the Product in the same legal category of account ownership, but not in excess of the Product Deposit Limit. The number of participating Program Banks will vary.

If you have any money on deposit in a Program Bank outside of the Product, that money will not be considered in determining whether to allocate your money in the Product to a particular Program Bank.

For example, if the SMDIA is \$250,000 and you have a non-Product deposit account at Program Bank "A" of \$200,000 and you also have \$60,000 in Liquid Insured Deposits at Program Bank A in the same legal category of ownership as your separate deposit, only \$250,000 of your \$260,000 balance held at Program Bank A would be insured by the FDIC.

Several factors can affect your insurance coverage, including bank mergers. Because neither Pershing nor R&T would be aware of deposits made by you outside of this Product, you are solely responsible for monitoring the total amount of all deposits you have at each Program Bank for purposes of calculating your FDIC coverage. In addition, if for any reason the amount deposited in the Product in your Accounts exceeds the number of Program Banks available to you multiplied by the SMDIA, the excess funds would not be insured by the FDIC. None of Pershing, R&T, your Investment Professional or your IBD is responsible for any insured or uninsured portion of your deposits in any of the Program Banks.

In the event that FDIC deposit insurance payments become necessary, the FDIC will determine the payments of principal plus unpaid and accrued interest (up to the SMDIA) per legal category of account ownership at the applicable Program Bank(s) that shall be made to you. However, there is no specific time period during which the FDIC must make insurance payments available. Furthermore, you may be required to provide certain documentation to your IBD and/or Pershing for delivery to the FDIC before insurance payments are made.

Unless your IBD has instructed Pershing otherwise, once funds equal to the Product Deposit Limit have been deposited for you through the Product into the Program Banks, any additional funds will be automatically invested into a secondary sweep option, as described in more detail below.

H. Ability to Exclude Program Banks

You may exclude any Program Bank from holding your Liquid Insured Deposits by notifying your Investment Professional or IBD. There will be a delay between the time you make your request and the time that such Program Bank is excluded. If you exclude one or more Program Banks, the maximum level of FDIC insurance available under the Product may be reduced. Contact your Investment Professional or your IBD at the time you exclude the Program Bank to confirm the new maximum amount of Federal deposit insurance available to you under the Product.

I. Your Responsibility to Monitor Your Automatic Cash Investment Options

Neither Pershing nor R&T has any obligation to monitor this automatic cash sweep option for your Account or to make recommendations about, or changes to, the Product that might be beneficial to you. As returns on the Liquid Insured Deposits, your personal financial circumstances and other factors change, it may be in your financial interest to change your automatic cash sweep investment option or invest cash in your Account in other investment vehicles. You can determine what automatic cash investment options and other investments are available and the current rates and returns thereon at any time by calling your Investment Professional or IBD. If you desire to maintain a large cash position in your Account for other than a short period of time, you should contact your Investment Professional to discuss your options.

J. Allocations to Program Banks

You may obtain a current list of Program Banks at any time by calling your Investment Professional or IBD or visiting www.Pershing.com/rates.html. Your Account statements also list the Program Banks that hold your Liquid Insured Deposits and the amount in each of those Program Banks upon interest reinvestment date. The Program Banks that hold your Liquid Insured Deposits may change at any time during a statement period. Accordingly, if you want to know the Program Bank at which your Liquid Insured Deposits are located at any time, contact your Investment Professional or IBD. One or more of the Program Banks may be replaced with another Program Bank and a Program Bank may also be added or deleted. While you will be provided notice of changes to Program Banks, which are all IDs, via a message on your periodic brokerage account statement, in advance when practicable, the Pershing website <https://www.pershing.com/rates> will always have the most current list of Program Banks participating in the Liquid Insured Deposits.

Each of R&T and Pershing enter into participation agreements with multiple Program Banks to accept funds from the Product. Pursuant to negotiations between R&T and the Program Banks, each Program Bank will establish, and from time to time reestablish, the level of deposits that it is willing to accept (the "target level"), and the amount of interest and fees that it is willing to pay under the Product.

R&T's allocation algorithm is a non-discretionary allocation methodology performed at the open of each business day that ranks the Program Banks according to the following objective process:

- Each Program Bank is initially priority ranked according to the amount of the balance required to reach its target level by accepting Product deposits that day. Under this ranking process, the Program Bank with the greatest amount required to reach its target level is ranked first, the Program Bank with the second greatest amount required to reach its target level is ranked second, and so on; and
- The initial priority ranking shall be adjusted, as needed, to take into account Program Bank specific conditions that may, pursuant to the terms of its participation agreement and certain regulatory requirements, restrict its ability to receive individual client deposits under the Product below certain minimum dollar amounts (e.g., only deposits of \$100,000 or more per individual depositor may be accepted) or from only certain types of accounts (e.g., based on legal category of account ownership, whether held by a U.S. or non-U.S. person).

With respect to the above adjustment, Program Banks that require specific types of deposits or deposit minimums per individual depositor will be moved to the top of the priority ranking, based first on the dollar amount of any individual depositor minimum, and then based on the target level, each by descending amounts. In addition, Program Banks that are affiliated with Pershing, your Investment Professional or your IBD, at their instruction, may be given sequence priority to receive deposits.

The initial ranking as so adjusted for each business day is referred to as that business day's "Deposit Allocation Ranking".

Once the Deposit Allocation Ranking is established, all customer funds participating in the Product are allocated (and re-allocated), each business day, to the Program Banks according to the current Deposit Allocation Ranking, subject to (i) the individual customer opt-out rights as to any Program Bank(s), (ii) the Program Bank's individual depositor minimum, where applicable; (iii) the Program Bank's account type restrictions; (iv) the Program Bank's stated capacity; and (v) the Product Deposit Limit. Customer funds are allocated to the Program Banks individually, based on deposit size, in descending order. Accordingly, customers with larger deposits will be processed and allocated before customers with smaller balances.

With respect to the allocation of your Product balance, the first Program Bank in the Deposit Allocation Ranking for any business day will receive your funds first until such Program Bank holds an amount of your funds not to exceed \$250,000. To the extent that you have allocable funds in excess of the maximum limit per bank set by Pershing (currently \$245,000), your funds are then allocated to the second Program Bank in the Deposit Allocation Ranking, and this process is continued until your Product balance is fully allocated or the Product Deposit Limit is reached. To the extent that a Program Bank has already received deposits up to such Program Bank's target level, or to the extent the level of your deposits is insufficient to satisfy a Program Bank's per individual depositor minimum deposit minimum requirements, or your deposits do not satisfy the Program Bank's account type requirements, such Program Bank will be skipped when allocating your funds, and your funds will be allocated to the next Program Bank in the Deposit Allocation Ranking. Any Program Bank on which you have exercised your opt-out right will also be skipped.

Unless your IBD has instructed Pershing otherwise, once your Product balance reaches the current Product Deposit Limit of \$2,490,000, Pershing, as your agent, will automatically sweep any Excess Balance in your Account into the secondary sweep option in your Account.

Each Program Bank is a separate FDIC member insured depository institution. You can obtain publicly available financial information for all Program Banks at the FDIC's website at www.fdic.gov; or by contacting the FDIC's Division of Information and Research by writing to Federal Deposit Insurance Corporation, Division of Information and Research, 550 17th Street, N.W., Washington, D.C. 20429-9990; or by calling the FDIC's Division of Information and Research at 877-275-3342. Neither Pershing nor R&T guarantees the financial condition of any Program Bank, or the accuracy of any publicly available information concerning a Program Bank. Pershing and R&T are not responsible for any insured or uninsured portion of any deposits at a Program Bank. You expressly give your consent to Pershing, R&T and their service providers to provide your customer account information to Program Banks and the FDIC, if necessary, for purposes of your involvement in the Product.

The Program Bank accounts established by Pershing on behalf of its customers, as customers' agent, constitute a direct obligation of the Program Bank(s) and are not directly or indirectly an obligation of R&T, Pershing, your IBD or your Investment Professional.

Where your funds are held in MMDAs, the return of your funds may be delayed. Program Banks are permitted to, but rarely do, impose a delay of up to seven days on any withdrawal request from an MMDA.

Secondary Sweep Option

Unless your IBD has instructed Pershing otherwise, once your Product balance reaches the current Product Deposit Limit of \$2,490,000, Pershing, as your agent, will automatically sweep any additional free credit balance over that amount ("Excess Balance") from your Account into the secondary sweep option selected by your IBD or your Investment Professional. If your IBD or Investment Professional has not selected a secondary sweep option on your account, any Excess Balance will be swept into a default money market mutual fund ("Money Fund"). The default Money Fund used as

the secondary sweep option for the Product is currently the Dreyfus Government Cash Management Service Shares (Ticker symbol DGUXX). Please see the section of this Disclosure Statement titled "Money Fund Features" for additional information on the default secondary sweep option.

Money Fund Features

Any balance in excess of the current Product Deposit Limit of \$2,490,000 will be automatically swept into the secondary sweep option in your Account that was selected by your IBD or your Investment Professional. If your IBD or Investment Professional has not selected a secondary sweep option in your Account, Pershing, as your agent, will automatically sweep any Excess Balance into the Dreyfus Government Cash Management Service Shares Money Fund (Ticker symbol DGUXX). If the Excess Balance in your Account is swept into the default Money Fund, a prospectus will automatically be mailed to you. Balances in a Money Fund are not eligible for FDIC insurance coverage, but are eligible for SIPC coverage up to applicable limits. You could lose money by investing in a Money Fund. Although a Money Fund seeks to preserve the value of your investment at \$1.00 per share, it cannot guarantee it will do so. An investment in a Money Fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The sponsor of a Money Fund has no legal obligation to provide financial support to the Money Fund, and you should not expect that the sponsor will provide financial support to the Money Fund at any time. Although the board of the default Money Fund has no current intention to impose a fee upon the sale of shares or temporarily suspend redemptions if the liquidity of the Money Fund falls below certain levels, the board reserves the ability to do so after providing at least 60 days prior written notice to shareholders. Please see the "SIPC Coverage" section of this Disclosure Statement for more information on SIPC coverage.

K. Interest and Compensation to Pershing and R&T

Interest

The amount of paid interest and the annual percentage yield earned ("**APYE**") applicable to your Liquid Insured Deposits will be stated on your Account statement. Contact your Investment Professional or IBD to obtain the current interest rate and APY being paid on your Liquid Insured Deposits, the names of the Program Banks, your account balances at each of the Program Banks as of the most recent business day, and other account information.

The interest rate paid by each Program Bank is paid pursuant to an agreement with each Program Bank and is subject to change at any time. The interest rate on the Deposit Accounts is determined by Pershing based on the amount that Banks are willing to pay on the Deposit Accounts less the fees paid to Pershing and R&T as set forth below under "Compensation to Pershing and R&T". The interest rate may fluctuate daily.

Interest will be compounded daily and posted monthly to the Program Bank account. Interest will accrue on deposits from the day they are received in investible form by the Program Bank through the day preceding the date of withdrawal from the Program Bank. The "daily balance method" is used to calculate interest. This method applies a daily periodic interest rate to the principal in the account for the period. The daily rate is 1/365 (or 1/366 in a leap year) of the applicable annual rate. The interest rate you earn on your Liquid Insured Deposits may be higher or lower than the rates available to depositors making non-Product deposits with Program Banks directly, through other types of accounts at Pershing, or with other depository institutions in comparable accounts. Any fees imposed under the Product reduce earnings on your Liquid Insured Deposits. You should compare the terms, rates of return, required minimum amounts, charges and other features of a Liquid Insured Deposit with other accounts and investment alternatives.

Negative Interest Rates

In response to certain extraordinary economic conditions, some foreign countries have implemented a negative interest rate policy to stabilize their economies. Under such a policy, a central bank charges banks a fee to hold reserves, and, as a result, the banks then charge depositors a fee to maintain their deposits. Historically, the U.S. has not adopted policies resulting in negative interest rates, and there is no indication that the Federal Reserve Board plans to adopt such a policy in the future. If, however, such a policy is adopted in the U.S., Program Banks may begin to charge fees to maintain deposits held through bank deposit sweep products, such as the Product. In such an event, a fee would be charged for maintaining your deposits at Program Banks through the Product. This fee would be in addition to fees received from Program Banks for their participation in the Product. Any fees related to negative interest rates would be applied to your Product balance on a monthly basis for the duration of the negative interest rate period. If applicable, this fee will appear on your periodic Account statement.

Compensation to Pershing and R&T

Each Program Bank pays Pershing and R&T fees for services related to your Liquid Insured Deposits equal to a percentage of the average daily deposit balance in the Deposit Accounts at the Program Bank. For certain accounts, such fees may be determined on a "per account" basis. The fee may vary from bank to bank. The amount of the fee paid to R&T and Pershing will affect the interest rate paid on the Product balance in your Account. In its sole discretion, Pershing may adjust its fee and may vary the amount of fees between clients. Pershing may earn a higher fee if you participate in the Product than if you used another cash sweep investment (e.g., shares in a money market mutual fund). Your IBD will receive a portion of the fee paid to Pershing by the Program Banks, which it can choose to share with your Investment Professional. The combined fee of Pershing, R&T and your IBD may not exceed 4%, or 400 basis points, on the average daily balances held in the Deposit Accounts. Other than applicable fees imposed by Pershing on your Account, there will be no charges, fees, or commissions imposed on your Account with respect to the Product. If an Excess Balance is swept into a Money Fund, including the default Money Fund, the Dreyfus Government Cash Management Service Shares Money Fund (Ticker symbol DGUXX), Pershing will earn fees on that balance and your IBD will receive a portion of the fee paid to Pershing by the Money Fund Provider, which it may share with your Investment Professional.

There is no minimum deposit amount to participate in the Product and no minimum balance to maintain your participation in the Product. There also is no minimum period that your money must remain on deposit in the Product and no limitations on the number or dollar amount of withdrawals from, or deposits to, the Product accounts. There is no penalty or fees for withdrawal of your entire balance, or any part thereof, at any time.

L. Account Statements

You will receive a periodic Account statement from Pershing. All activity with respect to your Liquid Insured Deposits will appear on your periodic Account statement, including interest earned during the period covered, the total of your opening and closing balance in the Liquid Insured Deposits and your balance held at each Program Bank. You will not receive a separate statement from the Program Banks. You should retain all Account statements.

Within 30 days you must notify your Investment Professional or IBD of any discrepancies you note on your Account statement. See Section P below.

M. Tax Reporting

The discussion contained in this document as to U.S. Federal tax considerations is not intended or written to be used, and cannot be used, for the purpose of avoiding penalties. Such discussion is written to support the promotion or marketing of the transactions or matters addressed herein. Each taxpayer should seek U.S. Federal tax advice based on the taxpayer's particular circumstances from an independent tax advisor.

The interest that you receive from your Liquid Insured Deposits is generally fully subject to federal, state and, where applicable, local income tax. An I.R.S. Form 1099 will be sent to you by Pershing for each year, showing the amount of interest income you have earned from your Liquid Insured Deposits. You will not receive a Form 1099 if you are not a citizen or resident of the United States or Canada.

N. FDIC Deposit Insurance for FDIC-Recognized Categories of Account Ownership; Multi-Tiered Fiduciary Relationships

To ensure that your Product Deposits are protected by FDIC insurance to the fullest extent possible under the Product, you should understand how FDIC insurance applies to each FDIC-recognized category of account ownership.

In general, the FDIC-recognized categories of account ownership include single ownership accounts; accounts held by an agent, escrow agent, nominee, guardian, custodian, or conservator; annuity contract accounts; certain joint ownership accounts; certain revocable trust accounts; accounts of a corporation, partnership, or unincorporated association; accounts held by a depository institution as the trustee of an irrevocable trust; certain irrevocable trust accounts; certain retirement and other employee benefit plan accounts; and certain accounts held by government depositors.

The rules that govern these categories of account ownership are very detailed and very complex, and there are many nuances and exceptions. Complete information can be found at the FDIC's regulations set forth at 12 C.F.R. Part 330.

The FDIC's regulations impose special requirements for obtaining pass-through FDIC insurance coverage, up to the SMDIA (currently \$250,000 for each FDIC-recognized category of account ownership), for multiple levels of fiduciary relationships. In these situations, in order for FDIC insurance coverage to pass through to the true beneficial owners of the funds, it is necessary (i) to expressly indicate, on the records of the insured depository institution that there are multiple levels of fiduciary relationships, (ii) to disclose the existence of additional levels of fiduciary relationships in records, maintained in good faith and in the regular course of business, by parties at subsequent levels, and (iii) to disclose, at each of the level(s), the name(s) and the interest(s) of the person(s) on whose behalf the party at the level is acting. No person or entity in the chain of parties will be permitted to claim that they are acting in a fiduciary capacity for others unless the possible existence of such a relationship is revealed at some previous level in the chain. If your Liquid Insured Deposits are beneficially owned through multiple levels of fiduciary relationship, you must take steps to comply with these special requirements.

Due to operational complexities, Product balances held in Accounts with trust registrations are allocated at the Account level and not at the beneficiary level; therefore, FDIC insurance coverage on Product balances held in trust accounts is not available at the beneficiary level. The Product does not provide FDIC coverage at the beneficiary level. Product balances held in Accounts with joint registrations are assumed to be held by two individuals and allocated to Program Banks accordingly.

For questions about FDIC insurance coverage, you may call the FDIC at 877-275-3342 or visit the FDIC's web site at www.fdic.gov.

You also may wish to utilize "EDIE The Estimator," the FDIC's electronic insurance calculation program, which is found at <https://www.fdic.gov/edie/index.html>. Other information regarding FDIC insurance coverage may be found at the "Deposit Insurance" section of the "Quick Links for Consumers & Communities" on the FDIC's web site at <http://www.fdic.gov/quicklinks/consumers.html>.

O. Business Continuity

In the event you are unable to contact your Investment Professional or IBD due to a business interruption event, such as a natural disaster, you may contact Pershing. In the event you cannot contact Pershing, you may call R&T at 1-800-433-1918 for account information.

P. Notice of Unauthorized Activity

Please refer to the Regulation E/ Electronic Funds Transfer section of the Disclosure Statement delivered to you by Pershing upon opening of your Account or found by selecting Business Continuity and Other Disclosures on www.pershing.com.

Q. Other Terms

Limits on Certain Deposit Accounts: Federal banking regulations may limit the transfers from an MMDA to a total of six (6) during a monthly statement cycle, and certain aggregation rules may apply to transfers from such accounts at the Program Banks. These limits on transfers will not limit the number of withdrawals you can make from your Product balance, the interest rate you earn or the amount of FDIC insurance coverage for which you are eligible. The Product seeks to rely on certain exemptions and interpretive relief granted by the Federal Reserve Board in connection with these limitations.

Inactive Accounts: Pershing and the Program Banks may be required by law to turn over (escheat) any portion of your Liquid Insured Deposits to a state, typically your state of residence, based on account inactivity for a certain time period established by applicable state law. If funds are remitted to the state, you may file a claim with the state to recover the funds.

Assignment by Customer: Neither these Terms and Conditions nor your participation in the Product may be assigned or transferred by you to any other person or entity, except for (i) a transfer by a change in ownership of the Account in which the Product balance is held or (ii) a transfer that occurs due to death, incompetence, marriage, divorce, attachment or otherwise by operation of law, in which case, such transfer shall not be binding on Pershing, R&T, or the Program Banks unless and until sufficient, acceptable documentation has been received by such entities.

Assignment by Pershing and R&T: Pershing and R&T may assign and transfer their respective rights and obligations under the Product, including, without limitation, pursuant to these Terms and Conditions, to one or more of its affiliates or subsidiaries or to any person that acquires all or substantially all of the assets of Pershing or R&T, without prior notice to you and without obtaining your consent.

Termination: Closing of Account: Pershing may, at its sole discretion and without any prior notice, suspend or terminate your participation in the Product. If you or Pershing, for any reason, close your Account, your participation in the Product will also be terminated and your Product balance liquidated and the proceeds will be credited to your Account according to the terms and conditions of your Account agreement.

Ordinary Care: Any failure by Pershing, R&T, or any Program Bank to act or any delay by such party beyond time limits prescribed by law or permitted by these Terms and Conditions is excused if caused by your negligence, interruption of communication facilities, suspension of payments by another financial institution, war, act of terrorism, emergency conditions or other circumstances beyond the control of such party. You agree that any act or omission made by Pershing, R&T, or any Program Bank in reliance upon or in accordance with any provision of the Uniform Commercial Code as adopted in New York, or any rule or regulation of the State of New York, the New York Stock Exchange, Inc., Financial Industry Regulatory Authority, or a federal agency having jurisdiction over such party shall constitute ordinary care.

Personal Information: You agree that Pershing, the Program Banks and their respective service providers may share information concerning you and your accounts in connection with your participation in the Product and these Terms and Conditions to any affiliate of such entity or otherwise in accordance with applicable laws and regulations, Pershing's Privacy Policy and/or customary brokerage and banking practices. You agree that Pershing, the Program Banks and their respective service providers may obtain such information as may be necessary for legitimate business needs in connection with the operation of the Product. For information regarding the collection, processing and use of your personal information and your rights to limit the use and disclosure of such information, you should refer to the Pershing's Privacy Policy provided to you at the time you opened your Account.

Alternatives to the Product: By your enrollment in the Product, you agree to the terms provided herein. You understand that, at any time, you may withdraw your consent to participate in the Product. If you withdraw your consent, and you do not designate a replacement automatic cash investment option for your Account, the uninvested cash held through the Product will be credited to your Account.

Days of Operation: The Product will operate on all days when both the NYSE and the Federal Reserve Bank of New York are open for business.

Tax Withholding: Pershing may be required to withhold U.S. federal income tax at the prevailing rate on all taxable distributions payable to certain depositors who fail to provide their correct taxpayer identification number or to make required certifications or who have been notified by the Internal Revenue Service that they are subject to backup withholding. Interest earned on accounts held by entities (individuals or corporations) that are neither citizens nor residents of the United States, except for Canadian residents, is not subject to withholding tax. Consult your tax advisor.

Joint Account Owners. If your Account is a joint or other multi-party account, any one of the account owners may deposit or withdraw funds from the Account. You hereby authorize Pershing, your Investment Professional or your IBD to act on the verbal, written or electronic instructions of any of the account owners or authorized signers, and such entity will so honor the instructions of any such account owner.

Limitation of Liability. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL R&T OR ITS AFFILIATES BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL, EXEMPLARY, SPECIAL, INCIDENTAL OR PUNITIVE DAMAGES OF ANY NATURE, WHETHER SUCH LIABILITY IS ASSERTED ON THE BASIS OF CONTRACT, TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE, INCLUDING WITHOUT LIMITATION, LOSS OF PROFITS, GOODWILL OR BUSINESS INTERRUPTION.

Tax or Other Unique Identification Information. You acknowledge that the Product uses a unique identifier for you (e.g., tax identification number, other unique number) to allocate your Liquid Insured Deposits across Program Banks under the Product. If you do not provide, or if you do not have, a tax identification number, your funds may not be allocated across Program Banks to provide you with expanded FDIC insurance under the provisions of these Terms and Conditions.

Aggregation of Funds in Multiple Accounts. If you have selected the Product in one or more Accounts with the same unique identifier, your Product balances in all such Accounts are aggregated for the purpose of allocating your Product balances and calculating the FDIC insurance coverage available under the Product. Depending on the individual facts and the ownership rights and capacities in which funds are held, additional FDIC insurance may be available. Refer to Section N above for further information about FDIC insurance.

Complaints: Any complaints regarding the Product should be addressed in writing to Pershing.

Legal Process: Pershing, R&T, and the Program Banks may comply with any writ of attachment, execution, garnishment, tax levy, restraining order, subpoena, warrant or other legal process, which such party reasonably and in good faith believes to be valid. Pershing may notify you of such process by telephone, electronically or in writing. If Pershing is not fully reimbursed for its record research, photocopying and handling costs by the party that served the process, Pershing may charge such costs to your Account or assess by increasing fees on the Liquid Insured Deposits, in addition to its minimum legal process fee. You agree to indemnify, defend, and hold Pershing, R&T, and the Program Banks harmless from all actions, claims, liabilities, losses, costs, attorney's fees, and damages associated with their compliance with any process that such party believes reasonably and in good faith to be valid. You further agree that Pershing, R&T, and the Program Banks may honor legal process that is served personally, by mail, or by facsimile transmission at any of their respective offices (including locations other than where the funds, records or property sought is held), even if the law requires personal delivery at the office where your Liquid Insured Deposits records are maintained.

Power & Authority: You represent and warrant that you have full power and authority to participate in the Product and to agree to and to perform these Terms and Conditions. In addition, if you are not an individual, you represent and warrant that (1) you are duly organized, validly existing and in good standing under the laws of its state or jurisdiction of organization, (2) you possess all requisite authority, power, licenses, permits, registrations and franchises and have made all governmental filings to conduct business wherever it conducts business and to execute, deliver and comply with your obligations hereunder and (3) your agreement to these Terms and Conditions and performance hereunder shall not conflict with or violate your governing documents or any law, regulation, decree, demand, order or any other contract or agreement to which it is subject.

R. General

Amendment: Pershing may modify these Terms and Conditions at any time by giving such notice as required by applicable law.

Waiver: Any provision of these Terms and Conditions may be waived if, but only if, such waiver is in writing and is signed by the party against whom the waiver is to be effective. No failure or delay by any party in exercising any right, power or privilege hereunder shall operate as a waiver thereof nor shall any single or partial exercise thereof preclude any other or further exercise thereof or the exercise of any other right, power or privilege.

Severability: If any term, provision, covenant or restriction of these Terms and Conditions is held by a court of competent jurisdiction or other authority to be invalid, void, or unenforceable, the remainder of the terms, provisions, covenants and restrictions of these Terms and Conditions shall remain in full force and effect and shall in no way be affected, impaired, or invalidated.

Entire Agreement: These Terms and Conditions and any other documents provided to you by Pershing or R&T in connection with the Product constitute the entire agreement with you regarding the Product, and supersedes all prior and contemporaneous agreements and understandings, both oral and written, with respect to the subject matter hereof. EXCEPT AS EXPRESSLY SET FORTH IN THESE TERMS AND CONDITIONS, NO REPRESENTATIONS OR WARRANTIES (ORAL OR WRITTEN, STATUTORY, EXPRESS, IMPLIED OR OTHERWISE) ARE MADE TO YOU REGARDING THE PRODUCT, INCLUDING, WITHOUT LIMITATION, AS TO MERCHANTABILITY, FITNESS FOR PURPOSE, CONFORMITY TO ANY DESCRIPTION OR REPRESENTATION, NON-INTERFERENCE, OR

NON-INFRINGEMENT. In the event of any inconsistency between a provision of these Terms and Conditions and a provision of any such other document provided to you in connection with the Product, the provision of these Terms and Conditions shall prevail.

Binding Effect: These Terms and Conditions shall inure to the benefit of and be binding upon the parties hereto and their respective permitted heirs, successors, legal representatives, and assigns. Nothing in these Terms and Conditions, expressed or implied, is intended to confer on any person other than the parties hereto and R&T, and their respective permitted heirs, successors, legal representatives and assigns, any rights, remedies, obligations, or liabilities under or by reason of these Terms and Conditions.

Governing Law: These Terms and Conditions are to be construed in accordance with and governed by the internal laws of the State of New York and the United States of America without giving effect to any choice of law rule that would cause the application of the laws of any other jurisdiction to the rights and duties of the parties. Unless otherwise provided herein, Pershing may comply with applicable clearinghouse, Federal Reserve and correspondent bank rules in processing transactions relating to your Liquid Insured Deposits. You agree that Pershing is not required to notify you of a change in those rules, except to the extent required by law.

Disputes: Except to the extent otherwise provided by applicable law, any action at law or in equity arising out of or relating to these Terms and Conditions shall be filed only in the courts of the State of New York in the City of New York, or in the United States District Court for the Southern District of New York, and you hereby consent and submit to the personal jurisdiction of such courts for the purposes of litigating any such action. EACH OF THE PARTIES HERETO HEREBY IRREVOCABLY WAIVES ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL PROCEEDING ARISING OUT OF OR RELATED TO THESE TERMS AND CONDITIONS.

Interpretative Provisions: The headings herein are included for convenience of reference only and shall be ignored in the construction or interpretation hereof. Any singular term in these Terms and Conditions shall be deemed to include the plural, and any plural term the singular. Whenever the words "include", "includes" or "including" are used in these Terms and Conditions, they shall be deemed to be followed by the words "without limitation", whether they are in fact followed by those words or words of like import. References to any document provided to you or to any agreement or contract are to that document, agreement or contract as amended, modified, or supplemented from time to time in accordance with the terms hereof or thereof. In any construction of the terms of these Terms and Conditions, the same shall not be construed against a party on the basis of that party being the drafter of such terms.

Version: June 2023

Electronic delivery terms and conditions

“You” means the account owner(s) of the account.

“Account communications” means account statements, trade confirmations or other notices, disclosures and other information related to your account, including, without limitation, quarterly, semi-annual or annual shareholder reports, proxy statements, and legal and regulatory notices and documents.

“Authorized user” means a person that you have authorized to be provided a user ID which enables access to your account online.

TIAA-CREF Individual & Institutional Services, LLC and Pershing, LLC (in its capacity of clearing firm) may make the account communications available in an electronic form, as described herein, instead of mailing them in a paper form. Account communications will be made available to you online via the website TIAA.org and the TIAA mobile app.

Account communications will be available in a portable document format (PDF) or HTML. You affirm that you have installed a recent version of Adobe Acrobat Reader or other software application that enables you to view and print your account communications. You may print or save a copy of any of the account communications at any time. You may request a mailed copy of any of your account communications by contacting us at **800-842-2252**.

An electronic mail (“**email**”) notification will be sent when account communications are available to be accessed on the website. The email will be from TIAA (TIAA@e.tiaa.org) or Pershing (edelivery@netxinvestor.com). The email will provide you with the URL of the website TIAA.org (for prospectus and shareholder communications, the URL may direct you to Broadridge). The email notification(s) will be sent to the email address(es) you provided directly to TIAA or provided by registering on the website. You may view and verify your email address(es) via the website, and change the email address(es) through the website.

In the event that a notice of undeliverable status of an email notification is received by Pershing or TIAA Brokerage, Pershing may send a paper notification by US mail to the postal address you provided. The paper notification will notify you of the availability of account communications on the website, provide the URL of the website where account communications may be accessed, and direct you to update your email address on record. In the event of an email notification failure as defined by Pershing, Pershing may discontinue your enrollment in electronic delivery and reset your account communications delivery preferences so that future documents will be delivered to your mailing address of record in a paper form. This change may impact multiple brokerage accounts that are associated with the returned email address. In order to reenroll in electronic delivery, you will need to do so via the website and ensure the email address that created the change is removed or updated. By providing this Electronic Delivery Consent, you affirm that you have provided a valid email address on file or by registering on the website, have access to the Internet and are at least 18 years of age. You agree that electronic delivery of the account communications is deemed accepted, regardless of whether you access or view a particular account communication document. You acknowledge that any authorized users of your account are able to make changes to the electronic delivery settings for your account, and you agree to accept responsibility for such changes. You may change your delivery preferences, such as resuming applicable paper account communications, by following the instructions on the website, or contact TIAA Brokerage directly at **800-842-2252** for assistance.

TIAA Brokerage, a division of TIAA-CREF Individual & Institutional Services, LLC, Member FINRA and SIPC, distributes securities. Brokerage accounts are carried by Pershing, LLC, a subsidiary of The Bank of New York Mellon Corporation, Member FINRA, NYSE, SIPC.