TIAA BROKERAGE DURABLE POWER OF ATTORNEY AFFIDAVIT OF FULL FORCE AND EFFECT Page 1 of 4

This form can only be used for one Principal and one Agent. Please RETAIN A COPY OF THIS DOCUMENT FOR YOUR RECORDS.

Note: A copy of the Principal's Durable Power of Attorney (DPOA) document must also be submitted with this form. This is not a standalone form to add DPOA.

Questions? Please call 800-927-3059, weekdays, 8 a.m. - 7 p.m. (ET).

STEP 1: PRINCIPAL/BROKERAGE ACCOUNT OWNER INFORMATION (REQUIRED)

Name of the Principal			
Date when DPOA was executed by the Principal (mm/dd/yyyy) / / / 20 State	where DPOA was executed	:	
Brokerage Account Number(s)			
STEP 2: ATTORNEY-IN-FACT/AGENT INFORMA	TION (REQUIRED)		
First Name	M.I. Last Name		
Social Security Number Date of Birth (mm/dd/y	yyy) Agent's	Relationship to the Principal	
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 Tele	ephone Number	Citizenship (If not U.S.)	

EMPLOYMENT INFORMATION FOR ATTORNEY-IN-FACT/AGENT

If Unemployed or Retired

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

Employer's Name	Your Occupation/Title		
Business Street Address	City	State Zip Code	

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STEP 2: ATTORNEY-IN-FACT/AGENT INFORMATION (REQUIRED) (CONTINUED) EMPLOYMENT INFORMATION FOR ATTORNEY-IN-FACT/AGENT (CONTINUED)

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 3: AGENT CERTIFICATION OF AUTHORIZED POWERS

In accordance with the DPOA annexed hereto, I, as the true and lawful attorney-in-fact ("Agent"), attest and affirm

THAT the said Principal is now alive; has not, at any time, revoked or repudiated that said power of attorney; and the said power of attorney is still in full force and effect. I have no actual knowledge, actual notice or notice of any facts indicating that neither the DPOA nor any of the powers thereunder has been modified in any way that would affect my ability thereunder to act as agent for any such transactions I may engage in pursuant to the DPOA.

THAT the DPOA is not affected by the incapacity of the Principal.

THAT a petition to determine the incapacity or to appoint a guardian for the Principal is not pending or a successor trustee has not been appointed.

THAT in the event that more than one Agent is named in the DPOA, I certify that I am authorized to act individually and that TIAA and/ or its agents and designees may take instructions from me acting independent of all other attorneys-in-fact, including delivery of assets to me personally.

THAT I can establish new accounts with any financial institution, including establishment of any brokerage account or retirement benefit account.

THAT I can receive statements of account, vouchers, notices, and similar documents from a financial institution and act with respect to them.

THAT I can transact in any account established with a financial institution, including entering into securities transactions (for example, stock, bonds, mutual funds).

THAT I can make withdrawals, transfers, and gifts to others and to me personally.

THAT I can file claims/lawsuits and/or litigation on behalf of the Principal or myself.

THAT I can appoint joint or successor Agent(s).

THAT I can enter into an agreement and hire third party agents.

THAT I can act in the Principal's behalf as the Principal would with respect to all affairs.

THAT the DPOA will remain in full force and effect until such time as written notification of termination or significant alternation is received at the offices of TIAA.

IF ANY OF THESE POWERS ARE NOT GRANTED TO YOU BY THE PRINCIPAL, YOU MUST CONTACT US AT 800-927-3059 BEFORE EXECUTING THIS AFFIDAVIT.



TB MAU F11424 (10/19)

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STEP 4: ATTORNEY-IN-FACT AGREEMENT AND SIGNATURE (REQUIRED)

PLEASE READ THE FOLLOWING IMPORTANT INFORMATION CAREFULLY BEFORE EXECUTING THIS AFFIDAVIT

I, the Attorney-in-Fact, being duly sworn, do hereby declare under penalties of perjury that the DPOA described in this document is in full force and effect, and I agree and affirm, that the following are true and correct statements:

I understand that TIAA Brokerage does not review my trading decisions or manage, supervise or monitor trading or other transactions in the Account. Any information given on this Affidavit and Indemnification is subject to verification and I hereby authorize TIAA to obtain a credit or other financial responsibility report about me at any time.

I understand that TIAA may terminate any and all agreements between me and TIAA and/or between the Principal and TIAA at any time and for any reason, including but not limited to TIAA's belief that the foregoing is untrue or that the DPOA or other documents have been altered. I understand that TIAA may require me to submit a new Affidavit of Full Force and Effect periodically, which I agree to provide to the extent I intend to continue to act as Power of Attorney for the Account.

I acknowledge that TIAA will neither review nor interpret the DPOA and that TIAA relies solely on the information provided in this Affidavit of Full Force and Effect to grant access to the above listed account(s) or any new brokerage accounts opened by me for the said Principal. I acknowledge TIAA's right to examine the DPOA and agree to provide a copy of the DPOA.

For the purposes of inducing TIAA and Pershing LLC to act upon my instructions, I hereby fully indemnify and hold harmless TIAA, Pershing LLC, and the respective parents, affiliates, directors, trustees, officers, employees, agents and designees of each from and against any and all losses, liabilities, claims and costs (including reasonable attorneys' fees) resulting from transactions, including but not limited to disbursements and withdrawals, made in accordance with my instructions or my failure to provide instructions as the Principal's Attorney-in-Fact. I agree to hold TIAA and Pershing LLC harmless from any liability (including attorneys' fees) arising out of or related to any actual improper or unsuitable actions resulting from instructions given to TIAA by me. This indemnification is made by me in my capacity as an agent and in my individual capacity. I agree to inform TIAA in writing of any amendment to the DPOA, any change in the composition of the agents, or any other event which could alter the certifications made above.

I agree to be bound by all the terms and conditions set forth in the TIAA Brokerage Customer Account Agreement ("Agreement"), including without limitation, the pre-dispute arbitration clause which appears on pages 2 and 3, paragraph 13 of the Agreement.

ATTORNEY-IN-FACT SIGNATURE Signed under penalties of perjury:

Attorney-in-Fact's Signature

Print Name and Title (if applicable)

Today's Date (mm/dd/yyyy)

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STEP 5: NOTARY CERTIFICATION - TO BE COMPLETED BY NOTARY OFFICER (REQUIRED)

Print here the name of the signature that you are notarizing.

State County	Date (mm/dd/yyyy)	
On the date noted below the subscriber known to me to be executed the foregoing instrument and he/she acknowledg Notary Public's Signature	1	In this space, the Notary Public must provide his/her notarial number and the date the appointment expires. Provide the notarial seal if outside New York state.
Today's Date (mm/dd/yyyy) / / 2 0		
Investment products provided by TIAA Brokerage, a Institutional Services, LLC, a member of the FINRA and are not a deposit or other obligation of or guar subject to investment risk, including possible loss of	and SIPC. Securities are not FDIC insured anteed by any bank or TIAA. Securities are	

RETURN COMPLETED FORM(S)

Upload your documents easily from your mobile device or computer.

Use the TIAA mobile app to quickly upload your completed documents. It's as simple as taking a picture:

- Tap the Message Center icon in the upper-right corner of your main screen.
- Select the Files header and tap Upload. That's it!

Haven't downloaded the TIAA mobile app? Get it today in the App Store or Google Play.

Don't have a smartphone? It's still easy. From your personal computer, here's what you'll need to do:

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

Faxing a document or using standard or overnight mail are also available, but can take more time. If you prefer one of these methods, use the information provided below to complete the process.

FAX:	STANDARD MAIL:	OVERNIGHT:
800-914-8922 (within U.S.)	TIAA	TIAA
	P.O. Box 1280	8500 Andrew Carnegie Blvd.
	Charlotte, NC 28201-1280	Charlotte, NC 28262

CHECKLIST

Did you gather all the required documents?

- A copy of the Principal's fully executed Durable Power of Attorney document.
- Sign, date, and have this form notarized.
- Please fax, mail, or upload all pages.

TB MAU	TIAA-CREF Individual & Institutional Services, LLC,
-	Members FINRA and SIPC, distribute securities products.
F11424 (10/19)	8500 Andrew Carnegie Boulevard, Charlotte, NC 28262

