

Investment Advisor ("IA") Information (This portion to be completed by IA.)

IA Firm Name (please print): _____

IA Master Account Number: _____ Service Team: _____

Is your firm (or a principal, employee or related person* of your firm) an owner, trustee, executor, guardian, conservator or custodian of this account?
 Yes No

If "Yes," and this is a trust, estate, guardianship, conservatorship or Custodial account, please also submit a completed Investment Advisor Account Supplemental Information Form.

If "Yes," and this is an organization (LLC, Corporation, etc.) or partnership account (GP, LP, etc.), please complete the IA Information Box at the top of the Organization Account Agreement Form or Partnership Agreement Form, as applicable.

*A "related person" is defined as any advisory affiliate or any person that is under common control with your firm. See Form ADV for additional information.

1. Type of Account (Select only one.)

- Schwab One Schwab One with Margin

2. Registration (Select only one.)

- | | | | |
|---|---|--|--|
| <input type="radio"/> Individual | <input type="radio"/> Corporate [†] | <input type="radio"/> Custodial (Section 10, optional) | <input type="radio"/> Conservatorship [†] |
| <input type="radio"/> Joint Tenants with Rights of Survivorship | <input type="radio"/> Sole Proprietor [†] | Under Laws of (State) _____ | <input type="radio"/> Guardianship [†] |
| <input type="radio"/> Tenants in Common | <input type="radio"/> Partnership [†] | Age of Termination _____ | <input type="radio"/> Other [†] _____ |
| <input type="radio"/> Tenants by the Entirety [†] | <input type="radio"/> Investment Club [†] | <input type="radio"/> Estate [†] | |
| <input type="radio"/> Community Property [†] | <input type="radio"/> LLC [†] | Decedent's Full Name _____ | |
| <input type="radio"/> Community Property with Rights of Survivorship [†] | <input type="radio"/> Non-Incorporated [†] | Decedent's Social Security Number _____ | |
| | <input type="radio"/> Trust
(Complete Section 11.) | Tax ID Number of the Estate _____ | |

[†]This type of registration may not be available in your state. [†]Additional documents are required to open these accounts.

3. Account Holder Information (For information about Schwab's privacy policy, see the attached Schwab One Account Application Agreement.)

As required by federal law, Schwab will use the information provided below to verify your identity.

Name of Organization (if applicable)

Organization Name _____ Tax ID Number _____

Legal Street Address _____ City _____ State _____ Zip Code _____

Account Holder/Trustee/Minor/Executor

First Name _____ Middle _____ Last _____ Are you known by another name? (Specify) _____

Home Street Address (no P.O. boxes, please) _____ City _____ State _____ Zip Code _____ Home Telephone Number _____

Mailing Address (if different from above, and P.O. boxes may be used) _____ City _____ State _____ Zip Code _____

Social Security/Tax ID Number _____ Passport Country of Issue (if not a U.S. citizen) _____ Passport Number (if not a U.S. citizen) _____

USA Other Other USA Other

Date of Birth (mm/dd/yyyy) _____ Country(ies) of Citizenship (Must list all) _____ Country of Legal Residence _____

Employed Retired Self-Employed Non-Employed

Employer Name/Industry (If self-employed, indicate nature of business.) _____ Occupation/Position _____ Employment Status _____

Business Street Address _____ City _____ State _____ Zip Code _____ Business Telephone Number _____

I am employed by, affiliated with, or am either a director or owner of one or more securities firms. Yes No If yes, list _____
 I am a director, 10% shareholder or policy-making officer of one or more publicly traded companies. Yes No If yes, list _____
 (Company Symbol, e.g., SCH) (Company Symbol, e.g., SCH)

Non-Deposit Investment Products: Not FDIC-Insured • No Bank Guarantee • May Lose Value

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Account Number _____ Date Approved (mm/dd/yyyy) _____

Print Name of Approver _____ Signature _____



3. Account Holder Information (Continued)

Additional Account Holder/Co-Trustee*/Custodian/Co-Executor

*If listed on account registration.

First Name _____ Middle _____ Last _____ Are you known by another name? (Specify) _____

Home Street Address (no P.O. boxes, please) _____ City _____ State _____ Zip Code _____ Home Telephone Number _____

Mailing Address (if different from above, and P.O. boxes may be used) _____ City _____ State _____ Zip Code _____

Social Security/Tax ID Number _____ Passport Country of Issue (if not a U.S. citizen) _____ Passport Number (if not a U.S. citizen) _____
 USA Other Other USA Other

Date of Birth (mm/dd/yyyy) _____ Country(ies) of Citizenship (Must list all) _____ Country of Legal Residence _____
 Employed Retired Self-Employed Non-Employed

Employer Name/Industry (If self-employed, indicate nature of business.) _____ Occupation/Position _____ Employment Status _____

Business Street Address _____ City _____ State _____ Zip Code _____ Business Telephone Number _____

I am employed by, affiliated with, or am either a director or owner of one or more securities firms. Yes No If yes, list _____ I am a director, 10% shareholder or policy-making officer of one or more publicly traded companies. Yes No If yes, list _____
 (Company Symbol, e.g., SCH) (Company Symbol, e.g., SCH)

4. Choose Your Cash Feature

Please select below one eligible Cash Feature that may allow you to earn income on the free credit balances in your brokerage account (each, a "Cash Feature"). Eligibility for each Cash Feature is indicated below. For additional information on the eligibility rules for, and important disclosures about, the various alternatives to earn income on your cash, please see Schwab's cash feature disclosure statement. If you do not select a Cash Feature, select more than one Cash Feature, or select a Cash Feature for which you are not eligible, you instruct Schwab to designate the Schwab One® Interest feature as the Cash Feature for your account. Schwab may make this designation without providing any advance notice to you.

Select only one of the following:

Available to:

<input type="radio"/> Bank Deposit feature ¹	Individuals Only ²
<input type="radio"/> Schwab One Interest ³	All Clients
<input type="radio"/> Schwab Municipal Money Fund—Sweep Shares	All Clients
<input type="radio"/> Schwab State-Specific (CA, FL, MA, NJ, NY, PA) Municipal Money Fund—Sweep Shares Indicate State _____ (default is state of domicile on account)	All Clients
<input type="radio"/> Schwab Money Market Fund	Clients with Household Balance ⁴ >\$100,000
<input type="radio"/> Schwab Government Money Fund	Clients with Household Balance >\$100,000
<input type="radio"/> Schwab U.S. Treasury Money Fund	Clients with Household Balance >\$100,000
<input type="radio"/> Schwab Advisor Cash Reserves—Sweep Shares	Clients with Household Balance >\$100,000
<input type="radio"/> Schwab Advisor Cash Reserves—Premier Sweep Shares	Clients with Household Balance >\$1,000,000

¹ The Bank Deposit feature automatically makes deposits to and withdrawals from deposit accounts held at Charles Schwab Bank, N.A., an FDIC-insured depository institution affiliated with Schwab. FDIC insurance is available up to \$100,000 (when aggregated with all other deposits held by you in the same capacity at Charles Schwab Bank, N.A.).

² The Bank Deposit feature is available only to individuals, including sole proprietorships. Corporations, limited liability companies, partnerships, non-incorporated associations, trusts, and other organizations operated for profit are not eligible.

³ The Schwab One Interest feature allows you to receive interest from Schwab on the free credit balances in your brokerage account. Credit balances held at Schwab ARE NOT FDIC-INSURED AND ARE NOT BANK-GUARANTEED. The Schwab One Interest feature is currently not available for a brokerage account linked to a Schwab Bank Investor Checking™ Account.

⁴ Your Household Balance includes all of your accounts at Schwab that have been linked in accordance with Schwab's householding guidelines.

If you select a Money Fund, your selection is considered a request for a prospectus. It is an indication of interest only and you are not obligated to buy any shares. Please read the prospectus carefully. Each of our state-specific municipal money funds is designed to generate tax-exempt income for taxpayers of that state. Income may be subject to federal and state alternative minimum tax (AMT). Money Funds ARE NOT FDIC-INSURED, MAY LOSE VALUE, AND ARE NOT BANK-GUARANTEED.

5. Electronic Delivery Enrollment

You may elect to receive Schwab eConfirms® (trade confirmations sent to your email address detailing any purchase or sale of a security) and eStatements (account statements made available on SchwabAlliance.com to which you will be able to link from emails sent to you when your eStatement becomes available). You may unenroll in eConfirms and eStatements at any time.

By providing your email address, you consent to receive eConfirms and eStatements, or just eConfirms if you also check the circle below. You will receive an email from Schwab in which you must confirm your consent by reading the terms and conditions and clicking on the "Consent" button. *If you do not want eConfirms or eStatements at this time, do not provide your email address below.**

If we are unable to deliver email to you at this address, we will send you paper trade confirmations and/or statements through the U.S. mail.

Email address: _____ I want eConfirms only.*

*See the *Charles Schwab Institutional Pricing Guide* for information about how not enrolling in both eConfirms and eStatements may affect commission rates for your Account.

6. Checking Preferences

Please select one of the following:

A. Schwab Bank Investor Checking™ Account. Complete the Add Schwab Bank Investor Checking to Your Schwab One® Brokerage Account Application.

This full-featured Schwab Bank checking account links to your Schwab One brokerage account and includes unlimited checkwriting, free Schwab Bank Bill Pay, a Visa® Platinum Check Card with ATM rebates, downloads to Microsoft® Money or Quicken®, and interest on your cash balances.

B. Schwab One Brokerage Checks and Debit Cards. (Complete ONLY if you have NOT applied for Schwab Bank Investor Checking.)

Note: Schwab One Visa privileges are not available for Custodial, Estate, Investment Club, Pension Trust, Conservatorship, Guardianship or Testamentary Trust accounts.

Checking. If you would like to order personal checks, indicate how the name(s) and address should read.

Account Holder, Additional Account Holder, Address, City, State, Zip Code, Special Information (if any)

Visa. If you would like to order a Schwab One Visa debit card, indicate the names that should appear on the card. Visa cards for Corporate Accounts must be issued in the name of the corporation.

Account Holder, Additional Account Holder, Number of Visa cards desired for Account Holder, Number of Visa cards desired for Additional Account Holder

7. Authorizations (Please initial all areas that apply to this account.)

Any of these authorizations may be revoked by providing notice to Schwab. Schwab may require that such notice be provided in writing. If more than one person is listed on the account, each Account Holder must initial the authorizations granted below. (An X is not sufficient.)

Acct. Holder/Trustee/Custodian/Executor, Add'l Account Holder/Co-Trustee/Co-Executor, Trading Authorization, Trading and Disbursement Authorization, Fee Payment Authorization

8. Issuer Communications and Related Actions

If you have granted your IA trading authority over your account, and your IA exercises investment discretion for you pursuant to an advisory contract, you can appoint your IA to be sent certain issuer and issuer-related communications (proxies, tender offers, proposed mergers, rights offerings, exchange offers and warrants, among other things) that may require a voting decision or other action, regarding investments held in your account.

If you appoint your IA below, your IA will, regarding only those voting decisions or other action communications sent to your IA: (i) be requested to vote proxy ballots; (ii) be requested to provide instructions regarding corporate reorganizations and other corporate actions; and (iii) be sent certain prospectuses and annual reports and other communications. In these cases, you will be authorizing your IA to make all voting decisions and take all actions on your behalf. You will not be sent informational copies of these communications.

1You must be a U.S. Resident or Resident Alien and have a U.S. mailing address to open a Schwab Bank Investor Checking account. 2Refer to the Schwab Bank Deposit Account Pricing Guide for details. 3Schwab Bank is an FDIC-insured depository institution affiliated with Schwab. Funds deposited at Schwab Bank are insured by the Federal Deposit Insurance Corporation (FDIC) up to \$100,000 when aggregated with all other deposits held by you in the same capacity at Schwab Bank.

For Charles Schwab Use Only, Account Number



8. Issuer Communications and Related Actions (Continued)

Even if you appoint your IA below, you may still be sent certain other issuer and issuer-related communications regarding investments held in your account. You agree that you will be responsible for providing Schwab any applicable instructions or directions on those items.

Please select only one:

- Yes. I appoint my IA, and I will fulfill my responsibilities, as described above. I instruct Schwab not to disclose my name, address and securities positions to any issuer of securities held in my account.
- No. I do not appoint my IA as described above. I wish to be sent all issuer and issuer-related communications, make all voting decisions and take all actions described above. I understand that any issuer of securities held in my account may request that Schwab disclose to it my name, address and securities positions in that issuer.

If you selected "No" above, please select one: My IA should / should not be sent informational copies of any issuer or issuer-related communications.

If you do not select either "Yes" or "No" above, Schwab will deem you to have indicated "No," but informational copies of issuer and issuer-related communications may be sent to your IA.

9. Authorization to Open Account

By signing this Application, you acknowledge that you have received and read a copy of the attached Application Agreement, which contains a predispute arbitration provision. You acknowledge that your signature signifies and constitutes your agreement that this account and your relationship with Schwab will be governed by the Application Agreement and all incorporated agreements and disclosures, including, but not limited to, the Schwab One® Account Agreement

and the *Charles Schwab Institutional Pricing Guide*, each as amended from time to time (the "Agreement and Disclosures"). You understand there are fees associated with establishing, maintaining and engaging in transactions. If you have selected the margin feature, you acknowledge that securities securing loans from Schwab may be lent to Schwab and lent by Schwab to others. You also acknowledge that if you trade "on margin," you are borrowing

money from Schwab and that you understand the requirements and risks associated with margin borrowing as summarized in the Margin Disclosure Statement included with this Application. For purposes of this Account Application and the attached Application Agreement, the terms "you," "your" and "Account Holder" refer to each person who signs this Account Application. The terms "we," "us," "our" and "Schwab" refer to Charles Schwab & Co., Inc.

I certify under penalty of perjury that (1) the number shown on this Application is my correct taxpayer number; (2) I am not subject to back-up withholding because (a) I am exempt from back-up withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to back-up withholding as a result of a failure to report all interest and dividends, or (c) the IRS has notified me that I am no longer subject to back-up withholding; and (3) I am a U.S. person (including a U.S. resident alien). (I understand that if I have been notified by the IRS that I am subject to back-up withholding as a result of dividend or interest underreporting and I have not received a notice from the IRS advising me that back-up withholding is terminated, I must strike or cross out the information contained in item 2 above.) The IRS does not require my consent to any provision of this document other than the certification required to avoid back-up withholding.

The Agreement with Schwab includes a predispute arbitration clause. I acknowledge receipt of the predispute arbitration clause contained in the Required Arbitration Disclosures and Arbitration Agreement sections, pages 1 and 2, of the Schwab One Account Application Agreement.

All Account Holders must sign. Your signature(s) below will also serve as a signature card for checks and Visa® debit card(s).

▶ _____ Date _____
 Signature: Account Holder/Trustee/Custodian/Executor (mm/dd/yyyy)

▶ _____ Date _____
 Signature: Additional Account Holder/Co-Trustee/Co-Executor (mm/dd/yyyy)

▶ _____ Date _____
 Signature: Additional Account Holder/Co-Trustee/Co-Executor (mm/dd/yyyy)

▶ _____ Date _____
 Signature: Additional Account Holder/Co-Trustee/Co-Executor (mm/dd/yyyy)

10. Nominate a Successor Custodian—Custodial Accounts Only

Use this section to designate a successor custodian to act on this account in the event of your incapacity, death, resignation or removal as custodian. This is a nomination only. To activate the role of a successor custodian, the account registration must be changed.

 Name of Successor Custodian Social Security Number of Successor Custodian

 Home Street Address (no P.O. boxes, please) City State Zip Code

This designation shall take effect as to this account in the event of my incapacity, death, resignation or removal as custodian.

10. Nominate a Successor Custodian—Custodial Accounts Only (Continued)

IN WITNESS THEREOF, I have executed this Designation of Successor Custodian Form.

Print Name



Signature: Current Custodian

Date

(mm/dd/yyyy)

Witness (The witness may NOT be the individual designated as the successor custodian.)

Print Name



Signature: Witness

Date

(mm/dd/yyyy)

11. Certification of Trustee—Trust Accounts Only

A. Trust Information (Select only one.)

- Revocable Living Trust where the Trustor(s), Trustee(s) and current Beneficiary(ies) are all the same individual(s). (Notarization not required.)
Other Revocable Living Trust Irrevocable Living Trust Testamentary Trust (Created through probated Will only.)
Business Trust Foreign Trust (non-U.S. Trustors only) Other (Please indicate.)

Trust Name (Decedent's Name if a Testamentary Trust)

Date of Trust

Trust Tax ID Number (If Revocable Living Trust, Use Trustor's Social Security Number.)

By Whom Is It Revocable and Amendable?

Trustor/Grantor/Settlor Name

This Trust Is Governed by the Laws of the State of

USA Other (please specify):

USA Other (please specify):

Trustor/Grantor/Settlor Country of Citizenship

Trustor/Grantor/Settlor Country of Legal Residence

Only if the Trust Beneficiaries are to be listed in the account registration, please list them here:

Trust Beneficiary

Additional Trust Beneficiary

Has the original Trust Agreement been amended or restated? Yes No

Date(s) of Amendment(s)/Date(s) of Restatement(s)

B. Powers of the Trustees

(a) By signing the Certification contained in Section 11C, the Trustees hereby certify that Schwab is authorized to follow the instructions of any Trustee and to deliver funds, securities or any other assets in the brokerage account to any Trustee or on any Trustee's instructions, because either (1) the Trust Agreement expressly provides that each Trustee is authorized to act individually, independently and without the consent of the other Trustees for all purposes related to the Trust brokerage account with Schwab, or (2) if the Trust Agreement does not contain such an express provision, the Trustee so acting has obtained the requisite consent of the other Trustees in accordance with the requirements of the Trust Agreement. Please print the names of the current Trustees of the Trust here.

Name of Trustee

Name of Co-Trustee

Name of Co-Trustee

Name of Co-Trustee

(b) By indicating "Yes" below, the undersigned Trustees hereby certify that either the Trust Agreement or applicable law grants the Trustee(s) the power to delegate to others (such as a financial advisor) the authority to give trading instructions with respect to the Trust's brokerage account with Charles Schwab & Co., Inc. Yes No

- (c) The undersigned Trustees certify that we have the power under the Trust Agreement to enter into transactions for the purchase and sale of securities and other investments, including, without limitation, stocks (preferred or common), bonds, mutual funds and certificates of deposit. In addition to the foregoing powers, by indicating "Yes" where applicable below, the Trustees hereby certify that the Trust Agreement also specifically authorizes the Trustees:
(i) to maintain a Margin and Short Account and through such account to purchase securities on margin, sell securities that the Trust does not own (i.e., short sales) and to borrow securities in connection therewith, to borrow money, to secure the performance of the Trust's obligations to the Accounts and to grant authority to the brokerage firm, acting as principal or otherwise, to pledge, repledge, hypothecate or rehypothecate assets of the Trust. Yes No
(ii) to trade in all types of options, including, without limitation, the purchase of puts and calls and the writing (sale) of covered and uncovered puts and calls. Yes No
(iii) to pledge Trust assets, including securities owned by the Trust, to secure obligations owing from the Trust to third parties. Yes No
Certain financial and experiential requirements must be met to trade options through Schwab, and a separate Option Application must be completed.

For Charles Schwab Use Only

Account Number



1 5 9 2 0 3

11. Certification of Trustee–Trust Accounts Only (Continued)

C. Certification, Trust Indemnity and Agreement (All current Trustees listed in the Trust must complete.)

In consideration of Charles Schwab & Co., Inc. ("Schwab") opening and/or maintaining a brokerage account for the Trust named above (the "Trust"), the undersigned Trustees of the Trust represent, warrant and certify that the representations made herein are true, complete and accurate; that the undersigned Trustees are all of the Trustees of the Trust; that the Trust is in full force and effect; and that the Trust Agreement (as defined above) has not been revoked, modified or amended in any manner that would cause the representations contained in this Certification to be inaccurate or incorrect.

If there is more than one Trustee, and no one Trustee has authority, acting individually and without notice to any other Trustee, to deal with Schwab independently, Schwab is authorized to follow the instructions of any of the Trustees listed in subsection (a) of Section 11B of this Account Application and to deliver funds, securities or other assets in the brokerage account to any Trustee or on any Trustee's instructions on the

presumption that the Trustee so acting has obtained the requisite consent of the other Trustees in accordance with the Trust Agreement. It is the responsibility of the designated Trustee(s) to consult with all other Trustees before giving Schwab any instructions regarding the account. Schwab is not responsible for determining the purpose or propriety of any instructions received from any Trustee, or for the disposition of payments or deliveries among Trustees. Any notice sent to one Trustee shall constitute notice to all Trustees.

Schwab will rely on this Certification and upon the representations made herein unless and until it receives written notice of changed Trustee(s) or written notice of any events affecting the Trustee's powers described above. The undersigned Trustees agree to send written notice promptly to Schwab of any change in Trustees, of any amendment or modification to the Trust Agreement that would cause the representations contained in this Certification to be or become inaccurate or incorrect, or of the occurrence of any event that would

affect the Trust's revocability, the Trustee's powers or any representations made in this Certification.

The undersigned Trustees hereby jointly and severally indemnify Schwab and each of its officers, directors, employees and agents from, and hold such persons harmless against, any claims, judgments, surcharges, settlement amounts or other liabilities or costs of defense or settlement (including attorneys' fees) arising out of or related to any actual or alleged improper or unsuitable actions taken at such Trustee's instructions in connection with the brokerage account established at Schwab for the Trust. This indemnification is made by the undersigned Trustees both in their capacities as Trustees and in their individual capacities, and shall not be limited by the Trustees' provision to Schwab of independent documentation concerning the representations made herein.

The representations and obligations stated herein shall survive termination of the Trust Agreement and the Account Agreement relating to the Trust's brokerage account.

All Trustees listed in Section 11B must sign here.

Signature lines for Trustees with corresponding Date fields. Includes labels like "Signature: Trustee (if applicable)" and "Date (mm/dd/yyyy)".

Notary Public section 1: State of _____, County of _____, On (mm/dd/yyyy) before me, (Name and Title of the Notarizing Officer), personally appeared (Name of Person[s] Signing Instrument). Includes text: "personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument." WITNESS my hand and official seal. Notary Public (Signature of Notarizing Officer) Expiration Date (mm/dd/yyyy). *Notaries outside of California may attach the appropriate notarizing declaration in lieu of the above.

Notary Public section 2: State of _____, County of _____, On (mm/dd/yyyy) before me, (Name and Title of the Notarizing Officer), personally appeared (Name of Person[s] Signing Instrument). Includes text: "personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument." WITNESS my hand and official seal. Notary Public (Signature of Notarizing Officer) Expiration Date (mm/dd/yyyy). *Notaries outside of California may attach the appropriate notarizing declaration in lieu of the above.

If you are considering adding a margin feature to your account, it is important that you fully understand the rules and risks involved in trading securities on margin.

Please review the following overview of using margin. While the use of margin can be effective for the experienced investor, there are certain risks that always accompany the use of a margin account. You should consider how the use of margin fits your own investment philosophy.

Margin trading increases your level of market risk. Margin trading increases your buying power, allowing you to purchase a greater amount of securities with your investing dollar. Therefore, your exposure to market volatility increases—a declining market could result in even greater losses. A decline in the value of your securities that you purchase on margin may require you to provide additional funds to Schwab in order to avoid the forced sale of those securities or other securities in your account.

The downside is not limited to the collateral value in your margin account. If the securities in your account decline in value, so does the value of the collateral supporting your loan. When the value of the collateral falls below the maintenance margin requirements, or Schwab's higher "house" requirements, Schwab can move to protect its position. In order to cover margin deficiencies, Schwab may issue you a margin call—a request for additional cash—or sell securities from your account. If a sale does not cover the deficiency, you will be responsible for any shortfall.

Schwab may initiate the sale of any securities in your account, without contacting you, to meet a margin call.

Schwab will attempt to involve you in the case of margin deficiency; however, market conditions may require the firm to quickly sell any of your securities without your consent. Because the securities are collateral for the margin loan, Schwab has the right to decide which security to sell in order to protect its interests. Even if Schwab has contacted you and provided a specific date by which you can meet a margin call, the firm can still take necessary steps to protect its financial interests, including immediately selling the securities without prior notice to you.

Schwab may increase its "house" maintenance margin requirements at any time and is not required to provide you with advance written notice. Changes in Schwab's policy regarding "house" maintenance margin requirements often take effect immediately and may result in the issuance of a maintenance margin call. Your failure to satisfy the call may cause Schwab to liquidate or sell securities in your account.

You are not entitled to an extension of time on a margin call. While an extension of time to meet margin requirements may be available to customers under certain conditions, a customer does not have a right to the extension.

Stocks paying dividends in taxable accounts may have tax implications. Some accounts that carry a margin loan balance and hold dividend-paying securities may receive a "substitute income payment in lieu (PIL) of a dividend," which may be taxable as ordinary income. Taxable accounts that receive a PIL instead of a qualified dividend may also receive a supplemental credit from Schwab. This will be described on customer statements as a "Schwab substitute income credit." Schwab will not credit your account with this additional payment when we can identify instances where a dividend is not qualified.

- This credit is NOT "payment in lieu," and is unrelated to any payment from either the security issuer or the borrower.
- It is a discretionary credit from Schwab which may be discontinued in the future with or without notice.¹
- It may be subject to tax at your ordinary income tax rate. Please consult your tax advisor about your specific tax situation.
- Because individual tax situations differ, Schwab cannot precisely calculate the additional tax costs a client might incur. We therefore do not intend, nor should clients expect, for this payment to be an exact reimbursement of any excess tax cost.

¹Please refer to the "Loan Consent" section of your Account Agreement which states that no compensation is due in connection with such loans and that Schwab "is not required to compensate you for any differential tax treatment between dividends and payments in lieu of dividends."

If you have any questions, please call 1-800-515-2157 or contact your Investment Advisor.

These terms relate to your account and are part of the Account Agreement between each account holder and Schwab. Please retain for your files.

I hereby request that Charles Schwab & Co., Inc. ("Schwab") open a brokerage account (the "Account") in the names listed as Account Holders on this Schwab One Account Application ("AA"). I agree to read and be bound by the terms of the Account Agreement (which includes information on the Cash Account and, if applicable, the Schwab Sweep Funds, the Margin and Short Account, Disclosure of Credit Terms and Policies, the Schwab StockBuilder Plan® and other written agreements between me and Schwab that apply to my brokerage account) as currently in effect and as amended from time to time. If, in the future, I add features to this Account governed by the foregoing agreements (e.g., a money fund or margin trading), I agree to be bound by their terms and conditions. If I do not receive or understand the Account Agreement, I will notify Schwab.

In accordance with Section 7, page 33, of the Schwab One Account Agreement, I agree that all debts and other obligations owed to Schwab by any party to the Account Agreement will be secured by a lien on all Securities and Other Property now or hereafter held, carried or maintained in any of my present or future brokerage accounts with Schwab, whether individually or jointly held with others, or in any brokerage account at Schwab in which I have an interest.

Required Arbitration Disclosures. Regulatory authorities require that any brokerage agreement containing a predispute arbitration agreement must disclose that this agreement contains a predispute arbitration clause. This Agreement contains a predispute arbitration clause. By signing an arbitration agreement, the parties agree as follows:

- 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.
- Arbitration awards are generally final and binding; a party's ability to have a court reverse or modify an arbitration award is very limited.
- The ability of the parties to obtain documents, witness statements and other discovery is generally more limited in arbitration than in court proceedings.
- The arbitrators do not have to explain the reason(s) for their award.
- The panel of arbitrators will typically include a minority of arbitrators who were or are affiliated with the securities industry.
- 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.
- The rules of the arbitration forum in which the claim is filed, and any amendments thereto, shall be incorporated into this agreement.

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:

1. the class certification is denied;
2. the class is decertified; or
3. 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.

Arbitration Agreement. Any controversy or claim arising out of or relating to (i) this Agreement, any other agreement with Schwab, an instruction or authorization provided to Schwab or the breach of any such agreements, instructions, or authorizations; (ii) the Account, any other Schwab account or Services; (iii) transactions in the Account or any other Schwab account; (iv) or in any way arising from the relationship with Schwab, its parent, subsidiaries, affiliates, officers, directors, employees, agents or service providers, including any controversy over the arbitrability of a dispute, will be settled by arbitration.

This arbitration agreement will be binding upon and inure to the benefit of the parties hereto and their respective representatives, attorneys-in-fact, successors, assigns and any other persons having or claiming to have a legal or beneficial interest in the Account, including court-appointed trustees and receivers. This arbitration agreement will also inure to the benefit of third party service providers that assist Schwab in providing Services ("Third Party Service Providers") and such Third Party Service Providers are deemed to be third party beneficiaries of this arbitration agreement.

The parties agree that this arbitration agreement will apply even if the application to open the Account is denied and will survive the closure of your Account and/or the termination of services rendered under this Agreement.

Such arbitration will be conducted by, and according to the securities arbitration rules and regulations then in effect of, the National Association of Securities Dealers (NASD) or any national securities exchange that provides a forum for the arbitration of disputes, provided that Schwab is a member of such national securities exchange at the time the arbitration is initiated. Any party may initiate arbitration by filing a written claim with the NASD or such eligible national securities exchange. If arbitration before the NASD or an eligible national securities exchange

is unavailable or impossible for any reason, then such arbitration will be conducted by, and according to the rules and regulations then in effect of, the American Arbitration Association (AAA). If arbitration before the AAA is unavailable or impossible for any reason, the parties agree to have a court of competent jurisdiction appoint three (3) arbitrators to resolve any and all disputes or controversies between or among the parties. Each party shall bear its own initial arbitration costs, which are determined by the rules and regulations of the arbitration forum. In the event of financial hardship, the arbitration forum may waive certain costs in accordance with such rules. At the conclusion of the hearing, the arbitrators will decide how to assess the costs of the arbitration among the parties.

Any award the arbitrator makes shall be final and binding, and judgment on it may be entered in any court having jurisdiction. This arbitration agreement shall be enforced and interpreted exclusively in accordance with applicable federal laws of the United States, including the Federal Arbitration Act. Any costs, fees or taxes involved in enforcing the award shall be fully assessed against and paid by the party resisting enforcement of said award.

All notices from one party to the other involving arbitration shall be considered to have been fully given when so served, mailed by first-class, certified or registered mail, or otherwise given by other commercially accepted medium of written notification.

In addition to the above provisions, if a party to this Agreement is or becomes a non-U.S. resident at the time of any controversy subject to this arbitration agreement, such party acknowledges and agrees to the following additional provisions:

- (1) The rules of the organization administering the arbitration specifically provide for the formal designation of the place at which the arbitration is to be held.
- (2) Entering into this Agreement constitutes consent to submit to the personal jurisdiction of the courts of the state of California, U.S.A., to interpret or enforce any or all of these arbitration provisions. Judgment on any arbitration award may be entered in any court having jurisdiction, or application may be made to such court for judicial acceptance of the award and an order of enforcement, as the case may be.
- (3) The exclusive language to be used by the parties and the arbitrators in the arbitration proceedings shall be English. Any party wishing an interpreter shall make all arrangements directly with the interpreter and shall assume all costs of the service.

(4) If a party is a foreign government or state, state-owned or state-operated enterprise or other instrumentality of a foreign government or state, such party waives all rights of sovereign immunity and neither the Federal Act of State doctrine nor the doctrine of sovereign immunity shall apply insofar as any enforcement in courts located in the U.S.A. is concerned.

Schwab One® Accounts. I further request PNC Bank to issue checks and Visa® debit card(s) as indicated on this AA. I authorize Schwab to make inquiries for the purpose of verifying my creditworthiness and the creditworthiness of my spouse if I am married and live in a community property state. Such inquiries may include verifying information I have given in my AA, contacting my employer and obtaining credit reports. I further authorize Schwab to disclose information to others about me and my Accounts when it is necessary for completing transactions; to comply with a government agency request or court order, such as the IRS or the SEC; to verify the existence and condition of my Account for a third party, such as a credit bureau or merchant; and as otherwise authorized by the Schwab One Account Agreement.

For Account Holders with more than one account at Schwab: This authorization further authorizes Schwab to direct transfers between your accounts at Schwab when no written authorization is requested.

Linking Your Account to an Investor Checking Account at Schwab Bank. If you link your Account to an Investor Checking Account held at Schwab Bank, you authorize Schwab to accept and follow instructions received from Schwab Bank to transfer funds from your Account to your Investor Checking Account as set forth in your *Schwab Bank Investor Checking™ Account Application* and *Schwab Bank Deposit Account Agreement*. The provisions of the Agreements and Disclosures relating to checks and debit cards will not apply to the services received from Schwab Bank.

You authorize Schwab to act as your agent in processing those instructions from Schwab Bank. You understand and agree that Schwab has sole discretion to accept or deny, in whole or in part, any such instruction. You also agree that Schwab is not responsible for any errors in calculation or damages resulting from errors in calculations or delays in transfers. **In no event will Schwab be liable for any special, indirect or consequential damages, even if we have been informed of the possibility of such damages.**

In order for transfers to occur, both your Investor Checking Account and your Account must be open and active and linked with each other. Target Balance Transfers will be limited to your Authorization Limit (as described in the *Schwab One Account Agreement*), excluding your Available Margin Loan Value (as defined in the *Schwab One Account Agreement*). Overdraft Transfers will be limited to your Authorization Limit.

If you have a debit balance in your Account, Target Balance Transfers will not be made to your Investor Checking Account. Pending securities trades (including the Automatic Investment Plan [AIP]), pending debits to your Account, and pending transfers of funds from your Account may not be

considered in determining whether funds are available for transfer from your Account to your Investor Checking Account at Schwab Bank.

Further, transfers of funds from your Account are subject to Schwab's minimum deposit requirements. You and your Account may not have any restrictions preventing Schwab from using funds in your Account to satisfy a transfer instruction from Schwab Bank. If your Account becomes subject to a restriction, your eligibility for this feature may be revoked and you understand that Schwab Bank may close your Investor Checking Account.

Transfers to Schwab Bank may result in debits in your Account. You acknowledge that you are responsible for all debits (and interest on debits) in your Account, as described in further detail in the Agreement and Disclosures. Your Account remains an obligation solely of Schwab. Likewise, your Investor Checking Account remains an obligation solely of Schwab Bank.

Trading Authorization. If I have indicated on this AA that the Investment Advisor ("IA") named above, which I understand may be referred to as "Investment Manager" or "IM" in other documentation relating to my Account, will have the authority to direct Schwab to execute trades in my Account, I authorize Schwab to accept instructions from IA regarding my Account, and to take all other actions necessary or incidental to the execution of such instructions, as IA shall direct. If my Account has a margin feature, Schwab is authorized to accept instructions from IA to trade on margin, to sell short, to borrow securities, to otherwise cause credit to be extended through the Account, and to secure the performance of obligations in the Account with any assets held in the Account (the "Account Assets"). If my Account is authorized for option trading, Schwab is authorized to accept instructions from IA to purchase and sell (write) index participation contracts and covered and uncovered option contracts on securities and securities-related indexes, up to my approved level of options trading strategy. Schwab, and other people to whom Schwab has given instructions in order to implement the IA's instructions, may rely on IA's instructions without obtaining my approval, counter-signature or co-signature. IA's authority will include, without limitation: the authority to give instructions for transactions in securities and financial instruments, including the buying and selling of stocks, bonds, debentures, notes, subscription warrants, stock purchase warrants, covered and uncovered options (if I have authorized trading covered and uncovered options, and only up to my approved level of option trading strategy), mutual fund shares, evidences of indebtedness and any other securities, instruments or contracts relating to securities.

I authorize Schwab to take such actions as Schwab deems reasonably necessary to carry out instructions Schwab receives from me and/or IA. I further authorize Schwab, acting upon IA's instructions, to aggregate transaction orders for my Account with orders for one or more other accounts over which IA has trading authorization or to accept or deliver assets in transactions executed by other broker-dealers where IA has so aggregated orders. I agree that if any such aggregated order is executed in more than one transaction, my

portion of such order may be deemed to have been executed at the weighted average of the prices at which all of such transactions were executed.

Fee Payment Authorization. If I have indicated on this Application that my IA will have fee payment authority over my Account, I authorize Schwab to pay investment advisory and related fees from my Account to my IA in the amount of my IA's instructions. I have authorized my IA in writing to receive fee payments directly from my Account. Schwab may rely on the instructions submitted by my IA, and will have no responsibility to confirm those instructions with me or verify the fees. Schwab may redeem money market fund shares in my Account to the extent necessary to pay these fees. My IA's fees debited from my Account will appear on Schwab's statements of my Account.

Disbursement Authorization. If I have indicated on this Application that my IA will have trading and disbursement authority over my Account, I authorize Schwab to disburse assets from my Account for investment purposes, and funds to me personally, as instructed by my IA. On my IA's instruction, Schwab is authorized to remit checks, wire funds, and otherwise make disbursements of funds held in my Account to: (1) banks, other broker-dealers, investment companies or financial institutions to or for credit to an account of identical registration; or (2) to me at my address of record.

Role of Charles Schwab & Co., Inc. I acknowledge and agree that: Schwab will merely carry out transactions as directed by me and/or IA as the case may be; I (and not Schwab) am responsible for investigating and selecting IA; IA is not affiliated with, or controlled or employed by, Schwab; and Schwab has no duty to supervise or monitor trading by me or by IA in my Account. Schwab will send me written confirmations of my trades executed through Schwab and monthly statements of all activity in my Account. If my IA and/or I direct Schwab to act as custodian of nonpublicly traded assets, I acknowledge and agree: (1) that nonpublicly traded assets generally lack a liquid market and that the value of such assets may be difficult to ascertain; (2) that any estimated value reflected on my account statement or other communication from Schwab is for informational purposes only and may be significantly different from the actual market value or the liquidation value of such assets; (3) that Schwab has no responsibility for, nor does Schwab guarantee the accuracy of, any such valuation of assets, even if the assets have been valued by a pricing service selected by Schwab; (4) that Schwab may require that I sign an addendum to my Account Agreement if Schwab agrees, in the exercise of its discretion, to accept custody of any nonpublicly traded assets in my Account. I authorize Schwab to obtain from IA, and IA to provide to Schwab, information regarding my Account as Schwab may reasonably request. If any of IA's employees is associated with a member of the NASD, NYSE or affiliate, Schwab is authorized to deliver information concerning my Account to such member upon request.

I acknowledge, understand and agree that (1) Schwab Advisor Network® member advisors ("Network member advisors") pay Schwab fees to be members; (2) Network member advisors, including IA, are independent and not employees

or agents of Schwab; (3) Schwab prescreens Network member advisors and checks their experience and credentials against criteria Schwab sets; (4) IA's membership in Schwab Advisor Network does not change that (A) I am solely responsible for (i) the decision to hire IA, (ii) what authority to give IA and (iii) evaluating IA's services and performance; and (B) Schwab (i) does not supervise IA and (ii) takes no responsibility to monitor IA's performance or transactions in the Account.

Products and Services Provided to IA.

Schwab may provide IA, at no fee or at a discounted fee, with research, software and other technology, information and consulting services, and other products and services that benefit IA. Schwab's provision of these products and services to IA may be based upon clients of IA placing a certain amount of assets in their brokerage accounts at Schwab (i.e., custodial assets at Schwab) within a certain period of time. IA may be influenced by this commitment in recommending or requiring that its clients establish brokerage accounts at Schwab. These products and services may not necessarily benefit my Account.

Pricing. Schwab and IA may agree to pricing (including commissions and transaction account and service fees) for my Account and IA's other clients' accounts at Schwab based upon the nature and scope of business that IA transacts with Schwab, including the current and future expected amount of IA's clients' assets custodied at Schwab, the types of securities managed by IA and/or expected frequency of IA's trading. Schwab may change this pricing if the nature and scope of business that IA transacts with Schwab changes or does not reach agreed-upon levels, in which case pricing for IA's clients' accounts, including my Account, may increase to an amount determined by Schwab not to exceed Schwab's standard pricing as published in the then-current *Charles Schwab Institutional® Pricing Guide*.

Accounts with Margin Features. I understand that when I buy securities on margin or enter into short sales or short options, or when my IA, if I have granted this authority to my IA, does so for my Account, I am borrowing money from Schwab for part of that transaction(s). All securities and other assets in my Schwab Account(s) are pledged as collateral to secure this loan. I acknowledge that margin transactions are riskier and involve the possibility of greater loss than transactions where I am not borrowing money. If the value of my securities and other assets falls, I acknowledge that I may be required to deposit more assets (a margin call) to secure this loan or that securities and other assets held in my Account may be sold to pay down or pay off my loan without prior notice and at a loss or at lower prices than under other circumstances. I agree to carefully consider my own financial condition, tolerance for risk and investment objectives, as

well as market conditions, before I decide to use margin credit or grant this authority to my IA. By placing an order on margin, or by granting this authority to my IA, I acknowledge that I have considered all of these factors and have decided that margin financing is appropriate for me.

All securities and other assets now or hereafter held in this Account may be pledged, repledged, or otherwise used as collateral, separately or together with securities of other customers, for the amount I owe Charles Schwab & Co., Inc., or for a larger amount.

Interest on debit balances will be charged and compounded in accordance with the Account Agreement and as permitted under the laws of the state of California.

Termination of Authorizations. The authorizations I have granted in this AA will remain effective until I or IA have revoked or terminated any of them by giving notice to Schwab, either by mail, telephone, facsimile, telegraph, messenger, electronic mail, voice mail or otherwise; provided, however, that Schwab reserves the right to require written notice or confirmation that such authorization has been terminated or revoked. I understand that I may revoke or terminate all authorizations or designations conferred herein at any time. Unless revoked or terminated by me, all authorizations and designations conferred herein to IA shall continue to apply to IA's successors or assigns. Such revocation will not affect my obligation resulting from transactions initiated prior to Schwab's receipt of such notice. I understand that if Schwab terminates its Investment Manager Service Agreement with IA, Schwab will not be obligated to honor any further instructions from IA; I will have exclusive control over, and responsibility for, my Account; and unless Schwab notifies me otherwise, my Account will become a Schwab retail brokerage account subject to all terms and conditions applicable thereto, including fees and commissions, investment products and other services available to Schwab retail customers. Schwab will notify me as soon as reasonably possible after any such termination.

Indemnification. I agree to indemnify and hold harmless Schwab, its affiliates and their directors, officers, employees and agents from and against all claims, actions, costs and liabilities, including attorneys' fees, arising out of or relating to: (1) their reliance on this AA, and (2) Schwab's execution of IA's instructions.

Verification. I authorize Schwab to inquire from any source, including a consumer reporting agency, as to my identity (as required by federal law), creditworthiness and ongoing eligibility for the Account (and that of my spouse, if I live in a community property state) at account opening, at any time throughout the life of the Account, and thereafter for debt collection or investigative purposes.

Suitability. From time to time, Schwab may make available investment research and information ("Schwab Research"). I agree and acknowledge that my IA and I are responsible for the transactions in my Account, including assessing the suitability of transactions for my Account, even if Schwab Research was used in making the investment decisions for my Account.

Account Ownership. For Accounts held as Joint Tenants with Rights of Survivorship, on the death of either party, the entire Account shall vest in and belong to the surviving joint tenant(s). For Accounts held as Tenants in Common, each party shall be deemed to own an equal interest in the Account unless otherwise specified, and on the death of either party, the decedent's interest shall vest in and be distributed to that party's estate. For Accounts held as Community Property, all rights shall be governed by applicable state law. For Custodial accounts governed by the Uniform Transfers to Minors Act (UTMA) or the Uniform Gifts to Minors Act (UGMA), I agree that the Account is irrevocably vested in and belongs to the minor, to be used for the sole benefit of the minor, and delivered to the minor promptly upon attaining the age of majority (or other age specified for termination under applicable state law).

Account Handling Instructions. Schwab will automatically hold all securities purchased, as well as all sale proceeds, dividends and interest, unless you specify otherwise.

Schwab's Privacy Policy and Disclosure of Information. Schwab respects your privacy. Schwab will use the information you provide to open and service your Account, to communicate with you when necessary, to provide you with additional information about products and services, and to provide to your IA, and certain third parties as your IA directs Schwab, information as provided in this AA. Pursuant to your Account Agreement, Schwab may disclose information about you and your Account to certain other third parties. Please call Schwab at 1-800-515-2157 for a copy of Schwab's privacy policy.

I consent to Schwab: (i) sending, by mail, electronic delivery and/or other means, duplicate copies of account trade confirmations, account statements and any other information relating to me and my Accounts to my IA and MM, if and in such manner as requested by my IA and MM; (ii) sending such information about me and my Accounts to third parties as my IA or MM shall direct Schwab; and (iii) disclosing information about me and my Accounts to other third parties as provided in Schwab's privacy policy, this Account Application and the Account Agreement.

Certification of Trustee—Trust Accounts Only

In consideration of Charles Schwab & Co., Inc. ("Schwab") opening and/or maintaining a brokerage account for the Trust named above (the "Trust"), the undersigned Trustees of the Trust represent, warrant and certify that the representations made herein are true, complete and accurate; that the undersigned Trustees are all of the Trustees of the Trust; that the Trust is in full force and effect; and that the Trust Agreement (as defined above) has not been revoked, modified or amended in any manner that would cause the representations contained in this Certification to be inaccurate or incorrect.

If there is more than one Trustee, and no one Trustee has authority, acting individually and without notice to any other Trustee, to deal with Schwab independently, Schwab is authorized to follow the instructions of any of the Trustees listed in subsection (a) of Section 11B of the Schwab One® Account Application and to deliver funds, securities or other assets in the brokerage account to any Trustee or on any Trustee's instructions on the presumption that the Trustee

so acting has obtained the requisite consent of the other Trustees in accordance with the Trust Agreement. It is the responsibility of the designated Trustee(s) to consult with all other Trustees before giving Schwab any instructions regarding the account. Schwab is not responsible for determining the purpose or propriety of any instructions received from any Trustee, or for the disposition of payments or deliveries among Trustees. Any notice sent to one Trustee shall constitute notice to all Trustees.

Schwab will rely on this Certification and upon the representations made herein unless and until it receives written notice of changed Trustee(s) or written notice of any events affecting the Trustee's powers described above. The undersigned Trustees agree to send written notice promptly to Schwab of any change in Trustees, of any amendment or modification to the Trust Agreement that would cause the representations contained in this Certification to be or become inaccurate or incorrect, or of the occurrence of any event that would affect the Trust's revocability, the Trustee's powers

or any representations made in this Certification. The undersigned Trustees hereby jointly and severally indemnify Schwab and each of its officers, directors, employees and agents from, and hold such persons harmless against, any claims, judgments, surcharges, settlement amounts or other liabilities or costs of defense or settlement (including attorneys' fees) arising out of or related to any actual or alleged improper or unsuitable actions taken at such Trustee's instructions in connection with the brokerage account established at Schwab for the Trust. This indemnification is made by the undersigned Trustees both in their capacities as Trustees and in their individual capacities, and shall not be limited by the Trustees' provision to Schwab of independent documentation concerning the representations made herein.

The representations and obligations stated herein shall survive termination of the Trust Agreement and the Account Agreement relating to the Trust's brokerage account.