

INDIVIDUAL ACCOUNT APPLICATION

ACCOUNT TYPE

- Cash Margin & Short
 Option (Please complete options application on page 2)

INVESTMENT & FINANCIAL PROFILE

Investment Objectives

- Capital Preservation Income Growth Speculation Other

ACCOUNT HOLDER

Full Legal Name _____ SSN _____

Email Address _____ Date of Birth _____

Home Address (No P.O. Box) _____

City _____ State _____ ZIP _____

Mailing Address (No P.O. Box) _____

City _____ State _____ ZIP _____

Home Phone _____ Business Phone _____ Mobile Phone _____

Years of Residence _____

U.S. Citizen : Yes No

if No, please enter country of citizenship _____

Permanent Resident Resident Alien Non-Resident Alien

Investment Experience

- None Limited Good Extensive

Annual Income

- Under \$20,000 (01) \$20,001 to \$25,000 (01) \$25,001 to \$50,000 (02)
 \$50,001 to \$100,000 (03) \$100,001 to \$200,000 (23) \$200,001 to \$300,000 (24)
 \$300,001 to \$500,000 (25) \$500,001 to \$1,200,000 (26) Over \$1,200,000 (27)

Liquid Net Worth

- Under \$20,000 (01) \$20,001 to \$25,000 (01) \$25,001 to \$50,000 (01)
 \$50,001 to \$100,000 (02) \$100,001 to \$200,000 (22) \$200,001 to \$500,000 (23)
 \$500,001 to \$1,000,000 (24) \$1,000,001 to \$5,000,000 (25) Over \$5,000,000 (26)

Total Net Worth

- Under \$20,000 (01) \$20,001 to \$25,000 (01) \$25,001 to \$50,000 (01)
 \$50,001 to \$100,000 (02) \$100,001 to \$200,000 (22) \$200,001 to \$500,000 (23)
 \$500,001 to \$1,000,000 (24) \$1,000,001 to \$5,000,000 (25) Over \$5,000,000 (26)

Risk Tolerance

- Low (01) Medium(02) High(03) Tax Bracket: _____ %

AFFILIATIONS

- Account Holder**
 The Account Holder is licensed or employed by a registered broker/dealer, securities exchange, or member of a securities exchange. Include a Compliance letter.
- Account Holder**
 The Account Holder is a director, 10% shareholder, or policy- making officer of a publicly traded company. Specify company name and address.
- Account Holder**
 The Account Holder or a member of their immediate family any business associate is a senior political figure. Specify the name of the political figure, political title, relationship, and country of office.

EMPLOYER INFORMATION

Employer _____ Occupation _____

Employer's Address _____ City _____ State _____ ZIP _____

Years at Employer _____ Type of Business _____

Position/Title _____

Job Function/Description _____

ACCOUNT STATEMENT & TRADE CONFIRMATIONS

You will receive periodic account statements and trade confirmations electronically, unless you make a selection below. If a valid email address is not provided, you will receive periodic paper statements and paper trade confirmations. You will be responsible for any fees that may apply.

Please Note: If you elect to receive electronic documents, you will receive shareholder communications and tax documentation electronically when available.

- Please provide paper account statements (\$5 each) and paper trade confirmations (\$2 each). I understand that I will be responsible for the fees that apply.

- Unless I check here, Firstrade Securities will provide my name to corporations whose securities I hold in my account for the purpose of corporate communications

ACCOUNT AGREEMENT

I would like to open a brokerage account with Firstrade Securities Inc. ("Firstrade") to be carried by Apex Clearing Corporation ("Apex"). I am of legal age to contract. I acknowledge that I have received, read and agree to be bound by the terms and conditions as set forth in the Firstrade Account Agreement, (available online at www.firstrade.com) which is incorporated by this reference, as amended from time to time. I agree that Firstrade Securities Inc. does not provide legal or tax advice, and will not advise me concerning the nature, potential value, or suitability of any particular security, transaction, or investment strategy. I understand that investments purchased through Firstrade Securities are not insured by the FDIC (Federal Deposit Insurance Corporation), are not obligations of or guaranteed by any financial institution and are subject to investment risk and loss. I further acknowledge that I have received, read and understand the Margin Disclosure Statement provided by Firstrade Securities Inc. *Important Information about procedures for opening a new account: **To help the government fight the funding of terrorism and money laundering activities, federal law requires all financial institutions to obtain, verify and record information that identifies each person who opens an account. What this means for you: When you open an account, we will ask your name, address, date of birth and other information that will allow us to identify you. We may also use a third-party information provider for verification purposes and/or ask to see your driver's license or other identifying documents.** *Under penalties of perjury, I certify (1) that the number shown on this application is my correct taxpayer identification number and (2) that I am not subject to backup withholding and (3) I am a U.S. person (including a resident alien) provided, however, if I am a nonresident alien as disclosed in this application, I do not certify that I am a U.S. person, and I understand that I must submit a W-8BEN Form. If I have been notified by the IRS that I am subject to backup withholding as a result of dividend or interest underreporting, I must cross out the text contained in clause (2) of this section and I understand I will be subject to backup withholding. **BY SIGNING THIS APPLICATION, I ACKNOWLEDGE THAT, IN ACCORDANCE WITH PARAGRAPH 23 OF THE FIRSTRAD ACCOUNT AGREEMENT, I AGREE IN ADVANCE TO RESOLVE ANY DISPUTES ARISING OUT OF MY ACCOUNT BY ARBITRATION. I FURTHER ACKNOWLEDGE THAT I HAVE READ AND UNDERSTOOD PARAGRAPH 26 OF THE FDIC SWEEP PROGRAM TERMS AND CONDITIONS AVAILABLE AT www.firstrade.com/fdicterms.**

FUNDING YOUR ACCOUNT

Make check payable to: **Firstrade Securities Inc.**
Enclosed is my check for: \$ _____

Account Holder Signature



Date _____

INTERNAL USE ONLY
Approval

Cash Margin Date _____

Customer ID Verified Account Number _____
 Yes No

Date _____

Certificate of Foreign Status of Beneficial Owner for United States Tax Withholding and Reporting (Individuals)

(Rev. January 2017)

► For use by individuals. Entities must use Form W-8BEN-E.

OMB No. 1545-1621

Department of the Treasury
Internal Revenue Service

► Information about Form W-8BEN and its separate instructions is at www.irs.gov/formw8ben.

► Give this form to the withholding agent or payer. Do not send to the IRS.

Do NOT use this form if:

Instead, use Form:

- You are NOT an individual W-8BEN-E
- You are a U.S. citizen or other U.S. person, including a resident alien individual W-9
- You are a beneficial owner claiming that income is effectively connected with the conduct of trade or business within the U.S. (other than personal services) W-8ECI
- You are a beneficial owner who is receiving compensation for personal services performed in the United States 8233 or W-4
- You are a person acting as an intermediary W-8IMY

Note: If you are resident in a FATCA partner jurisdiction (i.e., a Model 1 IGA jurisdiction with reciprocity), certain tax account information may be provided to your jurisdiction of residence.

Part I Identification of Beneficial Owner (see instructions)

1 Name of individual who is the beneficial owner		2 Country of citizenship	
3 Permanent residence address (street, apt. or suite no., or rural route). Do not use a P.O. box or in-care-of address.			
City or town, state or province. Include postal code where appropriate.			Country
4 Mailing address (if different from above)			
City or town, state or province. Include postal code where appropriate.			Country
5 U.S. taxpayer identification number (SSN or ITIN), if required (see instructions)		6 Foreign tax identifying number (see instructions)	
7 Reference number(s) (see instructions)		8 Date of birth (MM-DD-YYYY) (see instructions)	

Part II Claim of Tax Treaty Benefits (for chapter 3 purposes only) (see instructions)

9 I certify that the beneficial owner is a resident of _____ within the meaning of the income tax treaty between the United States and that country.

10 **Special rates and conditions** (if applicable—see instructions): The beneficial owner is claiming the provisions of Article and paragraph _____ of the treaty identified on line 9 above to claim a _____ % rate of withholding on (specify type of income): _____

Explain the additional conditions in the Article and paragraph the beneficial owner meets to be eligible for the rate of withholding: _____

Part III Certification

Under penalties of perjury, I declare that I have examined the information on this form and to the best of my knowledge and belief it is true, correct, and complete. I further certify under penalties of perjury that:

- I am the individual that is the beneficial owner (or am authorized to sign for the individual that is the beneficial owner) of all the income to which this form relates or am using this form to document myself for chapter 4 purposes,
- The person named on line 1 of this form is not a U.S. person,
- The income to which this form relates is:
 - (a) not effectively connected with the conduct of a trade or business in the United States,
 - (b) effectively connected but is not subject to tax under an applicable income tax treaty, or
 - (c) the partner's share of a partnership's effectively connected income,
- The person named on line 1 of this form is a resident of the treaty country listed on line 9 of the form (if any) within the meaning of the income tax treaty between the United States and that country, and
- For broker transactions or barter exchanges, the beneficial owner is an exempt foreign person as defined in the instructions.

Furthermore, I authorize this form to be provided to any withholding agent that has control, receipt, or custody of the income of which I am the beneficial owner or any withholding agent that can disburse or make payments of the income of which I am the beneficial owner. **I agree that I will submit a new form within 30 days if any certification made on this form becomes incorrect.**

Sign Here ▶

Signature of beneficial owner (or individual authorized to sign for beneficial owner) Date (MM-DD-YYYY)

Print name of signer Capacity in which acting (if form is not signed by beneficial owner)



Options Application and Agreement

- To add options trading privileges to a new and existing account, please provide all information and signature(s) below. Incomplete applications will cause your request to be delayed.
- Options trading is not granted automatically and the information will be used by FirstTrade to assess your eligibility to open an options account.
- Please upload completed form via the Form Center (Customer Service ->Form Center ->Upload Form) after logging into your FirstTrade account, fax to +1-718-961-3919 or e-mail to account.service@firsttrade.com

Account Name(s) (must be the same as on your corresponding cash/margin account) <input style="width:95%; height: 20px;" type="text"/>	FirstTrade Account Number (if application is for an existing account – otherwise leave blank) <input style="width:20px; height: 20px;" type="text"/> <input style="width:20px; height: 20px;" type="text"/> <input style="width:20px; height: 20px;" type="text"/> - <input style="width:20px; height: 20px;" type="text"/> <input style="width:20px; height: 20px;" type="text"/> <input style="width:20px; height: 20px;" type="text"/> <input style="width:20px; height: 20px;" type="text"/>
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Applicant Information				Co-Applicant's Name (For Joint Accounts Only)			
Name (First, Middle, Last for individual / indicate entity name for Entity/Trusts)				Name (First, Middle, Last for individual / indicate entity name for Entity/Trusts)			
Age	Married <input type="checkbox"/> Yes <input type="checkbox"/> No	Number of Dependents		Age	Married <input type="checkbox"/> Yes <input type="checkbox"/> No	Number of Dependents	Relationship with Primary Applicant
Employment Status <input type="checkbox"/> Employed <input type="checkbox"/> Self-Employed <input type="checkbox"/> Retired <input type="checkbox"/> Student <input type="checkbox"/> Homemaker <input type="checkbox"/> Not Employed				Employment Status <input type="checkbox"/> Employed <input type="checkbox"/> Self-Employed <input type="checkbox"/> Retired <input type="checkbox"/> Student <input type="checkbox"/> Homemaker <input type="checkbox"/> Not Employed			
Employer (if retired, list previous employer)				Employer (if retired, list previous employer)			
Occupation/Position		Type of Business (if no employer provided, list source of income such as Pension, royalties and trust fund)		Occupation/Position		Type of Business (if no employer provided, list source of income such as Pension, royalties and trust fund)	

Financial Status					
Primary Applicant			Co-Applicant		
Annual Income (\$)	Liquid Net Worth (\$) (cash + securities only)	Total Net Worth (\$) (excluding residence)	Annual Income (\$)	Liquid Net Worth (\$) (cash + securities only)	Total Net Worth (\$) (excluding residence)

Investment Experience							
Applicant's Experience	Stocks	Bonds	Options	Co-Applicant's Experience (For Joint Accounts Only)	Stocks	Bonds	Options
Years				Years			
Trades Per Year				Trades Per Year			
Average Size of Transaction: \$1,000, \$5,000, etc				Average Size of Transaction: \$1,000, \$5,000, etc			
Knowledge Level Limited, Good, Extensive, Professional trader				Knowledge Level Limited, Good, Extensive, Professional trader			

Options Investment Objectives (Level 2, 3 & 4 require "Speculation" to be checked)			
<input type="checkbox"/> Speculation	<input type="checkbox"/> Growth	<input type="checkbox"/> Income	<input type="checkbox"/> Capital Preservation

Type of Trading Requested			
<input type="checkbox"/> Level One <ul style="list-style-type: none"> • Write Covered Calls • Write Cash-Secured Equity Puts 	<input type="checkbox"/> Level Two <ul style="list-style-type: none"> • Write Covered Calls • Write Cash-Secured Equity Puts • Purchase Calls & Puts 	<input type="checkbox"/> Level Three (Margin Required) (Minimum equity of \$10,000) <ul style="list-style-type: none"> • Write Covered Calls • Purchase Calls & Puts • Spreads & Straddles • Butterfly and Condor 	<input type="checkbox"/> Level Four (Margin Required) (Minimum equity of \$25,000) <ul style="list-style-type: none"> • Write Covered Calls • Purchase Calls & Puts • Spreads & Straddles • Write Uncovered Puts • Butterfly and Condor

Option Agreement			
I hereby confirm that I have read the provisions of this option agreement and understand the contents thereof. I hereby expressly confirm all the information contained on this application, especially those concerning income, net worth and executing options transactions for my account. BY SIGNING THIS AGREEMENT, I ACKNOWLEDGE (1) THAT, IN ACCORDANCE WITH PARAGRAPH 23 of the FirstTrade Account Agreement and Information Guide, I AM AGREEING IN ADVANCE TO ARBITRATE ANY CONTROVERSIES WHICH MAY ARISE WITH YOU, AND (2) RECEIPT OF A COPY OF THIS AGREEMENT			
X	X		
Applicant's Signature	Date	Co-Applicant's Signature	Date

Office Use Only			
Type of Option Transaction Approved	Write Covered Calls <input type="checkbox"/>	Purchase Calls & Puts <input type="checkbox"/>	Spread & Straddle <input type="checkbox"/>
	Write Cash-Secured Equity Puts <input type="checkbox"/>		Write Uncovered Puts <input type="checkbox"/>
Approved by (Manager): _____	Date: _____		
Approved by (ROSFP): _____	Date: _____	Date OCC Disclosure Document Provided: _____	

FIRSTRADE OPTIONS AGREEMENT

This option agreement sets forth our respective rights and obligations arising in connection with any transaction by you on my behalf including but not limited to, the purchase and sale of put and call options:

1. I wish to commit a portion of my funds to trading in options. I consider myself sophisticated in investment matters and am able to read and understand confirmation and monthly statements. I realize and understand that any form of option trading has a number of risks connected therewith. I understand that the risk associated with option trading is extremely high, and in maintaining an option account and engaging in option trading through the facilities of your firm, I am engaging in transactions of a speculative nature. In investing in an option contract, I am speculating that the price of the underlying security will not only move in the direction which I anticipate (i.e. the price will move up in the case of a call option and move down in the case of a put option), but that the price move of the underlying security will also exceed the premium which I pay for the option, commissions and other transaction costs. Thus, if the price movement is not sufficient, I could lose my entire investment in the option contract. If I write an option contract without depositing or owning the underlying security, I realize that my risk of loss is potentially unlimited. Notwithstanding this risk of loss I agree to honor all assignments and deliver to you the underlying security in the prescribed time, and if I fail to deliver the underlying security in the proper time, I designate you to act as my agent and buy in such stock at the current market price so that I may honor my commitment to deliver. I understand that my account will be debited for any loss and that you will charge me a commission and a fee for this service. I have sufficient income and other assets to sustain this risk inherent in such investments.

2. I understand that I may not write call (sell options) on restricted stock, which I own as an insider.

3. I am familiar with the risks of option trading, and you shall not be held liable for such risks in connection with the execution, handling, purchasing, selling, exercising, and endorsement or options for my account.

4. Where I am long an option which is about to expire in the money, you are authorized, in your sole discretion and without notification to me, to exercise the option and liquidate the underlying stocks for my account, using your best efforts. This is in no way to be construed as an obligation on your part to sell or exercise such option on behalf of my account, and I therefore waive any and all claims for damages or loss which I may incur at any time against you arising out of the fact that any option in my account(s) was not exercised, unless I instructed you to do so.

5. There are special risks associated with uncovered option writing that expose the investor to potentially significant losses. Therefore, this type of strategy may not be suitable for all customers approved for options transactions.

- The potential loss of uncovered call writing is unlimited. The writer of an uncovered call is in an extremely risky position and may incur large losses if the value of the underlying instrument increases above the exercise price.

- As with writing uncovered calls, the risk of writing uncovered put options is substantial. The writer of an uncovered put option bears the risk of loss if the value of the underlying instrument declines below the exercise price. Such loss could be substantial if there is a significant decline in the value of the underlying instrument.

- Uncovered option writing is thus suitable only for the knowledgeable investor who understands the risks, has the financial capacity and willingness to incur potentially substantial losses, and has sufficient liquid assets to meet applicable margin requirements. In this regard, if the value of the underlying instrument moves against an uncovered writer's options position, the investor's broker may request significant additional margin payments. If an investor does not make such margin payments, the broker may liquidate stock or options positions in the investor's account, with little or no prior notice in accordance with the investor's margin agreement.

- For combination writing, where the investor writes both a put and a call on the same underlying instrument, the potential risk is unlimited.

- If a secondary market in options were to be unavailable, investors could not engage in closing transactions, and an option writer would remain obligated until expiration or assignment.

- The writer of an American-style option is subject to being assigned an exercise at any time after he/she has written the option until the option expires. By contrast, the writer of a European-style option is subject to exercise assignment only during the exercise period.

NOTE: It is expected that you will read the booklet entitled **CHARACTERISTICS AND RISKS OF STANDARDIZED OPTIONS** available from your broker. In particular, your attention is directed to the chapter entitled *Risks of Buying and Writing Options*. This statement is not intended to enumerate all of the risks entailed in writing uncovered options.

5 a. I have previously received from you a disclosure document entitled "Characteristics And Risks Of Standardized Options" and any supplement thereto and I acknowledge your procedures regarding the latest hour at which exercise notices will be accepted by you. These procedures are as follows: Notice of exercise instructions must be given to you on normal business days not later than 4:45 p.m. Eastern Time. You will not be held liable for failure to tender an exercise if such notice is not received within the aforementioned time limitations. If I am an option writer, I understand that I am still liable for exercise against me within one business day following the expiration of the option contract.

6. I understand that should I have any open short position in options during the month of expiration which is in the money or near the exercise price, it is most likely it will be assigned on my short position and that as a writer of an option I may receive a Notice of Assignment as late as one or two business days following the expiration date. Therefore, I should not take any action until being assured by you that you have received all notices of Assignment for your accounts from the Option Clearing Corp., and that the particular open short Options in the accounts have or have not been called. I also understand that notices of Assignment for option contracts are allocated among customers on a random selection basis and that a more detailed description of your allocation procedure is available upon request.

7. I have read and am familiar with the disclosure document entitled "Characteristics And Risks Of Standardized Options" and any supplement thereto and agree to abide by all rules of the OCC, or any securities exchange rules governing option transactions, including but not limited to position and exercise limit rules. Under the position limit rules, unless some different provision has

been made by the OCC for a particular stock, no single investor or a group of investors acting in concert (regardless of whether the options are held in one or more accounts or through one or more brokers) may hold more than the allowable number of option contracts covering the same underlying stock or index on the CBOE or Amex, etc. Under the exercise limit rules, unless otherwise determined and announced by the OCC, no holder or group of holders acting in concert, within any five consecutive business days, may exercise more than the allowable number of options covering the same underlying security or index. The number of allowable contracts varies widely for different equity and index options.

8. I agree to maintain in my account(s) with you such margin as you deem necessary or advisable, which may be changed by you from time to time, for the protection of your position as endorser of option contracts issued pursuant to my orders, and to respond to any and all margin calls issued by you in connection with such account(s). If I fail to comply with your margin calls you are authorized, in your discretion and without notification to me, to take such action as you may deem appropriate to protect the position and obligation which you may have assumed at my request. This authorization is intended to include (without limitation thereby) the purchase and sale for my account and risk of any part or all of the shares represented by options endorsed by you at my request, and the purchase for my account and risk for such additional puts and calls as you may deem necessary to fully protect yourselves. Any securities and funds held by you in any account of mine with you shall be held by you as security for the performance by me of my obligation to you under this agreement.

9. This agreement is supplementary to a Margin Agreement simultaneously or heretofore entered into between us and shall in no event be deemed to abrogate or in any other way diminish any of your rights under the Margin Agreement; provided, however, that in the event of any conflict between the terms of this agreement and the terms of the Margin Agreement, the provisions of this agreement shall prevail.

10. You shall not be liable for loss caused directly or indirectly by government restriction, exchange or market rulings, war, strikes, or any other conditions beyond your control.

11. The provisions of this agreement shall apply to all put options, call options, or other options which may have been previously purchased, sold, executed, handled, endorsed or carried for my account(s) and shall also apply to all put options, call options or other options which you may hereafter purchase, sell, handle, endorse or carry for my account(s) and shall inure to the benefit of your firm as now or hereafter constituted.

12. You are under no obligation to convey to me any information relating to the underlying securities covered by any options in my account(s) or any securities related thereto, or any information relating to the option, whether such information is then or thereafter known or available. I understand that any information, advice or notification in respect to any option or any underlying securities or securities related thereto which you may give me and which you are not required to give by the terms of this agreement, express or implied, shall not be construed as creating an implied agreement or course of dealing between us and shall not impair the provisions of this or any other agreement between us.

13. AGREEMENT TO ARBITRATE ALL CONTROVERSIES

I represent that I understand the terms of the arbitration clause, as follows:

(a) Arbitration is final and binding on the parties.

(b) The parties are waiving their right to seek remedies in court, including the right to jury trial.

(c) Pre-arbitration discovery is generally more limited than and different from court proceedings.

(d) The arbitrators' award is not required to include factual findings or legal reasoning and the party's right to appeal or seek modification of rulings by the arbitrators is strictly limited.

(e) The panel of arbitrators will typically include a minority of arbitrators who were affiliated with the securities industry.

The undersigned agrees, and by carrying an account of the undersigned you agree, that all controversies which may arise between us, including but not limited to those involving any transaction or the construction, performance, or breach of this or any other agreement between us, whether entered into prior, on or subsequent to the date hereof, shall be determined by arbitration. Any arbitration under this agreement shall be concluded before the New York Stock Exchange, Inc. ("NYSE") or the Financial Industry Regulatory Authority. ("FINRA"), and in accordance with its rules then in force. I may elect in the first instance whether arbitration shall be conducted before the NYSE or the FINRA, but if I fail to make such election, by registered letter or telegram addressed to you at your main office, before the expiration of five days after receipt of a written request from you to make such election, then you may make such election. Judgment upon the award of arbitrators may be entered in any court, state or federal, having jurisdiction.

14. Class-action matters are excluded from arbitration proceedings conducted by the FINRA. Therefore, it is further agreed that the parties to this agreement shall not bring a putative or certified class-action to arbitration, nor seek to enforce any pre-dispute 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; or (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.

15. I shall be responsible for all expenses incurred by you, including reasonable attorneys' fees in enforcing any provision of or collecting any amounts due you under this agreement.

16. Unless I give specific instructions as to where to direct orders, I hereby authorize you or the introducing broker to select the exchange or market to which my orders are directed.

17. I understand that firms clearing through you may from time to time purchase for their own account options, or securities underlying options, recommended to me.

18. I understand that my options count is subject to further review and acceptance.

Transactions in my account made prior to such review and acceptance are valid transactions, notwithstanding future restrictions or limitations you may place on my account.



Account Agreement

Member FINRA & SIPC

Revision
June 2017

1. General Information

This form contains important information about your Firsttrade Securities Inc. ("Firsttrade") brokerage account which is carried by Apex Clearing Corporation ("Apex") and contains terms and conditions you agreed to by signing the brokerage account application, margin agreement (if applicable) and option agreement (if applicable). Subsequent to the approval of your Firsttrade Cash Account, you may elect to establish a Margin Account and/or Option Account. This information applies to all of your accounts with Firsttrade, including cash, margin and option accounts. Upon approval, Firsttrade will act as your broker for the purpose of transacting buy and/or sell orders for securities as instructed by you. You agree that Firsttrade has no obligation to advise you on the suitability of any security, transaction or investment strategy and you acknowledge that you are responsible for monitoring profits and losses in your account. You agree that Firsttrade does not provide legal or tax advice or advice regarding specific equities or listed options, including suitability and investment strategies. You agree that you are fully responsible for evaluating your personal financial circumstances and for determining your suitability for any particular security, transaction or investment strategy. You further agree that you have read the entire Firsttrade and Apex Account Agreements and agree to all terms and conditions in these Agreements. For our protection against credit risks and other conditions, we may, without prior notice, decline to accept your orders or instructions or we may place restrictions on your account. You acknowledge that any order you place which Firsttrade, in its sole discretion, deems to be disruptive to the securities markets, unusual in size, type or credit risk or which exceeds Firsttrade's usual authorized limits may be subject to rejection, cancellation or modification. You acknowledge that market orders cannot always be canceled, because they are subject to immediate execution and the order may be executed before the request for cancellation is received by Firsttrade. All transactions will be subject to the applicable rules, regulations, customs and usages of any exchange or market where executed clearinghouse or self-regulatory organization and to all applicable federal and state laws, rules and regulations.

2. Deposit of Equity

We may require full payment or an acceptable deposit prior to the acceptance of any order. In the case of all securities, we require payment in advance for purchases and securities in advance of sales. In the case of options, we require cleared funds in the account prior to the acceptance of any purchases or the delivery of stock certificates in good deliverable form prior to writing covered calls. For our protection, we may restrict your ability to withdraw funds represented by a check or other instrument or to apply such funds in settlement of a transaction.

3. Settlement of Transactions

The purchase and sale of securities are settled on "settlement date." Stock transactions are settled on the third business day after the transaction. Option transactions are settled on the business day after the transaction. You therefore agree to pay us for all securities purchased by settlement date and to deliver securities sold in good deliverable form by settlement date. Unless you make other arrangements with us, we may use available funds and securities in your brokerage account to settle a transaction. Exchange and federal securities regulations require us to liquidate a transaction or an account in the event of a failure to pay for a transaction or a failure to deliver securities in good deliverable form. You agree to be fully liable for any and all brokerage commissions, fees, margin interest charges and applicable taxes due to Firsttrade and/or Apex in connection with transactions effected by you in your Firsttrade brokerage account.

All checks must be made payable to Firsttrade Securities Inc. All securities must be endorsed to Apex Clearing Corporation upon delivery.

4. Control or Restricted Securities

Prior to placing an order in connection with any securities subject to Rule 144 or 145(d) under the Securities Act of 1933, you must advise your broker of the status of the securities and you must furnish us with the necessary documents (including legal opinions) to clear legal transfer. You acknowledge that there may be delays involved with the processing of control or restricted securities and that you will not hold Firstrade or Apex liable for any losses caused directly or indirectly by such delays. Firstrade and/or Apex may require, in our discretion, that control or restricted securities not be sold or transferred until such securities clear legal transfer. Firstrade and/or Apex reserve the right in their sole discretion to refuse to process the legal transfer of any control or restricted securities or any security which bears a restrictive legend.

5. Receipt of Communications

Communications will be sent to you at the mailing address specified in the new account application or your updated account information in your account profile page (or at such other address as you may specify in writing). All communications so sent, whether by mail, mailgram, email, messenger, electronic data communications, fax or otherwise, shall be considered delivered to you personally, whether actually received or not. You must inform us within a reasonable amount of time of any change in your name and/or address.

6. Credit Verification

I authorize Apex or Firstrade to obtain a consumer report at the time of application to verify my creditworthiness and to obtain a consumer report from time to time for updates, renewals, extensions, and collection activity on any approved account. Upon my written request, Apex will disclose to me whether it obtained a report, and if so, the name and address of the consumer-reporting agency that provided it. In the event that my account is denied, as a result of the consumer report verification, I authorize Apex to provide to Firstrade the reason(s) for such denial.

7. Account Protection

Firstrade Securities Inc. is a member of the Securities Investor Protection Corporation (SIPC), which protects brokerage account of each customer when a brokerage firm is closed due to bankruptcy or other financial difficulties and customer assets are missing from accounts. SIPC protects brokerage accounts of each customer up to \$500,000, of which \$250,000 may be in cash. Money market funds held in a brokerage account are considered securities. For more information on SIPC coverage, please visit www.sipc.org.

Our clearing firm, Apex Clearing Corporation, has purchased an additional insurance policy through a group of London Underwriters (with Lloyd's of London Syndicates as the Lead Underwriter) to supplement SIPC protection. This additional insurance policy becomes available to customers in the event that SIPC limits are exhausted and provides protection for securities and cash up to an aggregate of \$150 million. This is provided to pay amounts in addition to those returned in a SIPC liquidation. This additional insurance policy is limited to a combined return to any customer from a Trustee, SIPC and London Underwriters of \$37.5 million, including cash of up to \$900,000. This coverage does not protect against loss of the market value of securities.

All new and existing account holders have an option to deposit their available cash balance to a FDIC Insured Deposit Accounts (please review Terms and Conditions at www.firstrade.com/fdicterms or a Brokerage Cash Account (balance held in brokerage account protected by SIPC). If at initial account opening, deposit option was not selected, cash balance will automatically default to a Brokerage Cash Account.

8. Agreement Subject to Approval

This agreement will be effective only upon our approval. We reserve the right to reject your application.

9. Termination

Firstrade reserves the right to terminate your account at any time and for any reason. Upon termination, you will remain liable for any debit balances or deficiencies in your account. You will reimburse Firstrade and/or Apex for the cost of collection of any debit balance or deficiency in connection with any of your accounts, including reasonable attorney's fees and court costs.

10. Joint Account Holders

If there is more than one account holder, each account holder is jointly and severally liable for obligations arising under this agreement. Each joint account holder, acting alone and without notice to any other account holder, has the authority to deal with us fully and completely. We will follow the instructions of any joint account holder and we will not be responsible for determining the purpose or propriety of any instruction received from any joint account holder. We reserve the right to require written instructions from all account holders, at our discretion. Any notice sent to one account holder will be deemed to be notice to all account holders.

11. Accuracy of Account Information

You represent and warrant that you have supplied us with accurate information in your new account application and no one except the account holders listed has an interest in the account. You agree to notify Firstrade in writing if there is a change in the facts set forth in the account information of your new account application, including your name, address and telephone number. In addition, you agree to notify Firstrade if any of the account holders become employed by a securities firm, securities exchange or an entity controlled by a securities exchange. You also agree to notify us if any of the account holders become a director, officer, 10% shareholder or an "affiliate" as defined by Rule 144 under the Securities Act of 1933.

12. Customer's Responsibility Regarding Certain Securities

Certain securities may grant the securities holder valuable rights that may expire unless the holder takes action. These securities include (but are not limited to) warrants, stock rights, convertible securities, bonds, and securities subject to a tender or exchange offer. You acknowledge that you are responsible for knowing the rights and terms of all securities traded in your account and securities long in your account. We are not obligated to notify you of any upcoming expiration or redemption dates or to take any action on your behalf without specific instructions from you, except as required by law and the rules of regulatory authorities. If we hold securities in your account that are callable in part, you agree to participate in an impartial lottery allocation of the called securities, according to the rules of the New York Stock Exchange.

13. Liens and Liquidations

All securities and other property held in any of your Firstrade accounts (which are carried by Apex), including accounts in which you have an interest, shall be subject to a general lien for discharge of all your indebtedness and other obligations to us. Such securities and other property shall be held by us as security for payment of any liability or indebtedness you may incur in any account with us. We reserve the right to transfer securities and other properties from any of your other accounts with us, whenever we determine such a transfer appropriate for our protection and we reserve the right to determine at our discretion which securities and other property are to be sold and/or purchased in enforcement of our lien. Circumstances that may require the liquidation of an account include, but are not limited to: the failure of a customer to pay for securities purchased or the failure to deliver securities in good form; the filing of a petition of bankruptcy by or against a customer; the appointment of a receiver by or against a customer; an attachment levied against any account of the customer or any account in which the customer has an interest; or the customer's death. You are responsible for costs, commissions and losses arising from any actions we take to liquidate or close transactions in your account due to your failure to pay for transactions and/or to deliver securities in good form.

14. Losses Due to Extraordinary Events

Firstrade and Apex will not be liable for losses caused directly or indirectly by government restriction, exchange or market rulings, wars, strikes or any other conditions beyond their control.

15. Market Data

Stock price quotations and other market data we may provide you with are obtained from independent pricing services we believe are reliable. However, we cannot guarantee the accuracy of such data and we will not be held liable for any losses incurred by your use of it.

16. Order Flow Payment and Order Execution Routing Disclosure Statement

This disclosure statement is being provided to all clients of Firstrade, as required by Rule 11A of the Securities and Exchange Commission. "Order Flow" refers to the process by which your securities transactions are executed. Order Flow Payment Information: Firstrade and Apex (which provides securities clearing and execution services for Firstrade) may receive remuneration in the form of payments for directing securities transactions to designated exchanges, market

makers, dealers or market centers for execution. Such remuneration may take the form of rebates, monetary compensation or a reduction in exchange specialist fees based on volume and is considered to be compensation to Firstrate and Apex. The source and amount of any remuneration or compensation received by Firstrate and Apex in connection with a specific transaction will be disclosed upon written request.

Order Execution Routing Information: Absent specific instructions from customers, Apex routes most orders in over-the-counter ("OTC") securities to designated OTC market makers or third-market dealers based on an alphabetical selection process performed by a computerized system. Selected exchange-traded securities may be routed to affiliated specialists, regional exchanges or designated third-market dealers. All orders are routed to an exchange, market maker, dealer or market center that matches or improves upon the displayed national best bid or offer for the particular security at the time the order is processed. Price improvement opportunities or execution at prices superior to the displayed national best bid or offer, are available for certain transactions in NASDAQ and listed securities from certain of the OTC market makers and third-market dealers to which orders are routed.

17. Governing Laws

This agreement will be governed by the laws of the State of New York.

18. Entire Agreement and Severability

This agreement contains the entire understanding between us concerning the subject matter of this agreement. If any provision of this agreement is held to be invalid, void or unenforceable by reason of any law, rule, administrative order or judicial decision, that determination shall not affect the validity of the remaining provisions of this agreement.

19. Customer's Estate

You agree that this agreement and all the terms and conditions contained within will be binding upon your heirs, executors, administrators and/or personal representatives.

20. Assignments

You acknowledge that this agreement shall inure to the benefit of Firstrate and/or Apex and their successors and assigns. Firstrate and/or Apex may assign their rights and duties under this agreement to any of their subsidiaries or affiliates without notice to you or to any other entity upon prior written notice to you.

21. Miscellaneous Fees

Your account may be charged certain fees related to the type of activity in the account. Examples of activities which generate fees include, but are not limited to; Mailgram Notices (margin call, sell-out & buy-in), Bounced Checks, Wiring of Funds, Outgoing Account Transfers, Issuance of Stock Certificates, Legal Transfers, Option Assignment, Paper Account Statements and Confirmations, Duplicate Copies of Account Statements, Confirmations and Checks.

Visit our website at www.firstrate.com for more information related to fees. Fees are subject to change without notice.

22. Margin Accounts

SERVICES PROVIDED: We agree to act as your broker to purchase or sell securities, on margin as directed by you. In addition, Apex agrees to extend credit to you in accordance with their margin account rules. You will, at all times, be liable for the payment, upon demand, of any debit balance or other charges.

MAINTENANCE OF MARGIN: You will, at all times, maintain such securities and other property in your account as margin collateral as required by Firstrate Securities Inc., Apex and/or applicable exchange and federal regulations. A margin call may be issued if your account equity falls below such requirements. Firstrate and/or Apex retain sole discretion to determine whether additional collateral will be required.

You acknowledge that Firstrate and/or Apex are not obligated to request additional margin in the event your account falls below minimum margin requirements. Market conditions or other circumstances may not allow Firstrate and/or Apex to give you notice when your account equity becomes deficient or to allow you time in which to deposit additional equity. Firstrate and/or Apex, therefore, reserves the right in their sole discretion to sell securities and other property held in your account(s) as collateral, to cancel open orders, to buy securities and other property which may be short in your account, to close open option positions and to take any other action Firstrate and/or Apex deem necessary for their protection, all without prior notice, advertisement or demand to.

PLEDGE OF SECURITIES AND OTHER PROPERTY. All securities and other property now or hereafter held, carried or maintained by Apex in or for any account in which you have an interest may be pledged, re-pledged, hypothecated or re-hypothecated by Apex from time to time without notice, either separately or in common with other securities and property for any amount due in your accounts or for any greater amount and Apex may do so without retaining in their possession or under their control for delivery a like amount of similar securities or other property. You also authorize Apex to lend to themselves or others any securities or other property held by Apex on margin from your account or any accounts under your control.

INTEREST CHARGES ON DEBIT BALANCES: Your account will be charged interest monthly on the average daily net debit balance in all of your accounts, in accordance with Apex's margin rules, at the prevailing rate as determined by Apex. The interest charged will appear on your monthly statement and will indicate the rate and the period covered. The rate may change from time to time without prior notice, due to fluctuations in interest rates or other causes. Interest charges are based on a 360-day interest year. Interest is computed from the 16th day of the preceding month to the 15th day of the current month, except in January and December. In January, interest is computed from the 1st day of the month to the 15th. In December, interest is computed from the 16th day of the month to the 31st. In calculating margin interest, free credit balances in all accounts will be offset against any debit in the margin account and interest will be charged on the net debit balance, if any.

SHORT SALES: You agree that any "short" sale shall be designated as such to us at the time you place such an order and you hereby authorize us to mark such order "short." You acknowledge that a short sale is the sale of a security you do not own and that to facilitate a short sale Apex must borrow stock to cover the delivery to the purchaser(s). If the stock is recalled by the lender(s) of the securities, Apex will attempt to re-borrow the securities, but Apex may be forced to cover your short position on the open market at the then current market price. You will be liable for any debit balance remaining after a short position has been closed out. If any securities that you borrow are deemed as "hard to borrow", additional fee will be charged.

You agree to meet the appropriate margin requirements for your short account as required by Apex and/or applicable exchange or federal regulations. The credit balance generated by short sales in your account is not a free credit balance. If the market value of your short account is greater than the short account credit balance, interest will be charged on the appreciation in value of the short positions. If the market value of your short account is less than the short account credit balance, interest on any debit in the account will be reduced in relation to the decline in value. Each Friday's closing price is used to determine the increase or decrease in the short account and your account is thus marked to the market daily.

AGREEMENT SUBJECT TO APPROVAL: This account and/or margin agreement will be effective only upon Firsttrade and/or Apex approval. Firsttrade and/or Apex reserve the right to reject your account and/or margin agreement.

23. Arbitration

You acknowledge that you have read and understood the following facts about arbitration procedures:

- Arbitration is final and binding on the parties.
- The parties are waiving their right to seek remedies in court, including the right to a jury trial.
- Pre-arbitration discovery is generally more limited than and different from court proceedings.
- The arbitrator's award is not required to include factual findings or legal reasonings and any party's right to appeal or to seek modification of rulings by the arbitrators is strictly limited.
- The panel of arbitrators will typically include a minority of arbitrators who were or are affiliated with the securities industry. No person shall bring a putative or certified class action to arbitration, nor seek to enforce any pre-dispute arbitration agreement against any person who has initiated in court a putative class action and who is a member of a putative class who has not opted on (of the class with respect to any claims encompassed by the putative class action until:
 - (i) the class action 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.

You agree that any controversy between you and Firsttrade Securities Inc., Apex Clearing and/or any of their officers, directors, employees, agents or affiliates relating to the account agreement, your account and the transactions therein or in any way arising out of your relationship with Firsttrade Securities Inc. and/or Apex, will be settled by arbitration in accordance with the rules then in effect of the Financial Industry Regulatory Authority (FINRA), as governed by the laws of the State of New York, which must be commenced by a written notice of intention to arbitrate. Judgment upon arbitration award may be rendered in any court of competent jurisdiction.

24. Statements and Confirmations

STATEMENTS: All transactions, including the purchase and sale of securities, dividends, interest payments and redemptions for securities held in your account, will appear on your monthly account statement. Purchase and sale transactions will be posted on your statement as of the transaction settlement date. Securities held in your account will be listed on your statement. You are responsible for changing or canceling any open orders in your account. Statements may be provided in an electronic format if you choose the electronic delivery method.

CONFIRMATIONS: Confirmations will be sent out for all purchase and sale transactions on the next business day following the trade. Confirmations may be provided in an electronic format if you choose the electronic delivery method.

25. Customer Identification

To help the government fight the funding of terrorism and money laundering activities, Federal law requires all financial institutions to obtain, verify, and record information that identifies each person who opens an account. What this means for you: When you open an account, we will ask for your name, address, date of birth and other information that will allow us to identify you. We may also ask to see your driver's license or other identifying documents.

26. Sweep Program

If you elect to participate in the FDIC sweep program, you the Customer acknowledge and agree that: (a) you have read and understand the sweep program terms and conditions available at www.firsttrade.com/fdicterms and is aware of the products available in such sweep programs; (b) Firsttrade may make changes to the FDIC sweep programs and products at any time, with our sole discretion and with or without notice to Customer; (c) the free credit balances in the Customer's Account may be included in the sweep program upon account opening; and (d) Firsttrade has no obligation to monitor the applicable sweep program elected for the Customer's Account or to make recommendations about, or changes to, the sweep program that might be beneficial to the Customer.



Self-directed Trading Account Risk Disclosure

All Firsttrade Accounts are self-directed. Customers are solely responsible for any and all orders placed in their Accounts and understand that all orders entered by them are unsolicited and based on their own investment decisions or the investment decisions of their duly authorized representative or agent. Consequently, any customer of Firsttrade agrees that neither Firsttrade nor any of its employees, agents, principals or representatives:

- solicit orders;
- recommend any security, transaction orders;
- provide investment advice in relation with Firsttrade account;
- make discretionary trades;
- produce or provide research;
- act as a market maker in any security;

The research materials that are available through www.firsttrade.com are intended for informational and educational purposes only. They do not constitute a recommendation to place an order or engage in any investment strategies.

All securities trading is speculative in nature and involves substantial risk of loss. It is very important that Customers understand all the risk of any form of trading. The U.S. Securities and Exchange Commission websites - <https://www.sec.gov> , <https://www.investor.gov>, and FINRA - <http://www.finra.org>, provide useful information for investors.

FIRSTRADE SECURITIES INC. ELECTRONIC SERVICES AGREEMENT

Please read this Electronic Services Agreement before using any of the electronic services made available by Firstrade Securities Inc. In order to use these services, you must agree to be bound by the following terms and conditions.

1. INTRODUCTION: You acknowledge that this agreement between you and Firstrade Securities Inc. states the terms and conditions regarding your use of any Electronic Service offered by Firstrade Securities Inc. and other authorized third party service providers, including the use of such services to enter transactions in your Firstrade Securities Inc. brokerage account. **Your use of Firstrade Securities Inc.'s Electronic Services will indicate your acceptance of the following terms and conditions. The terms and conditions set forth herein supplement the terms and conditions contained in the Firstrade Securities Inc. Account Agreement and Information Guide furnished to you and by using Firstrade Securities Inc.'s Electronic Services you confirm your agreement to comply with the terms and conditions set forth therein.**

2. PROVISION OF SERVICES: You acknowledge that for the purpose of this agreement Firstrade Securities Inc.'s Electronic Services will be defined as any electronic or interactive product or service offered by Firstrade Securities Inc. which allows Firstrade Securities Inc. clients to: communicate with Firstrade Securities Inc. or an authorized third-party service provider; to obtain information or quotations from Firstrade Securities Inc. or an authorized third-party service provider; or enter into brokerage transactions with Firstrade Securities Inc. includes electronic data communications transmitted by you to Firstrade Securities Inc. through the use of personal, home or business computers connected by a modem or other device to an authorized telecommunications network designated by Firstrade Securities Inc. You acknowledge that this agreement also governs your use of automated touch-tone telephone services through which you can obtain account information and quotations and to enter brokerage transactions. Firstrade Securities Inc.'s Electronic Services include, but are not limited to, "Market Touch" and the services of any third-party information providers offered in conjunction with Firstrade Securities Inc.'s electronic brokerage services. You acknowledge that Firstrade Securities Inc. may modify or discontinue the Electronic Services offered pursuant to this agreement without prior notice to you.

3. COMMISSIONS, FEES AND CHARGES: You agree to be fully liable for any and all brokerage commissions, fees, margin interest charges and payments due to Firstrade Securities Inc. and/or Apex Clearing in connection with trades effected by you in your Firstrade Securities Inc. brokerage account(s) through Firstrade Securities Inc.'s Electronic Services. Such brokerage commissions, fees, margin interest charges and payments will be paid directly to Firstrade Securities Inc. in accordance with the terms and conditions specified in the Firstrade Securities Inc. Account Agreement and Information Guide. You agree that Firstrade Securities Inc. may require a deposit before you can begin trading using Firstrade Securities Inc.'s Electronic Services (deposited funds can be used toward payment of your first transaction). You agree to pay all fees and charges associated with your use of any of Firstrade Securities Inc.'s Electronic Services, including, without limitation those of any third-party information providers offered through Firstrade Securities Inc.

4. PASSWORDS AND SECURITY: You acknowledge that you will be the only authorized user of Firstrade Securities Inc.'s Electronic Services for your account(s). You will be fully responsible for the confidentiality and use of your user name(s) and password (s) and you agree that you will be fully and solely responsible for all activities, including brokerage transactions, which arise from the use of your user name (s) or password(s) (except as provided for in paragraph 5 below). You also agree that you will be fully and solely responsible for all activities, including brokerage transactions, which arise from your authorization to link your brokerage account(s) to any other Firstrade Securities Inc. account(s). You acknowledge that we may tape record conversations with you, whether in person or by telephone, for purposes of verification and you consent to such recording.

5. NOTIFICATION OF UNAUTHORIZED USE: You agree that as a condition of being approved to use Firstrade Securities Inc.'s Electronic Services you will immediately notify Firstrade Securities Inc. if:

- a. You have placed an order using Firstrade Securities Inc.'s Electronic Services and you do not receive an order number;
- b. You have placed an order using Firstrade Securities Inc.'s Electronic Services and you do not receive an accurate written or electronic confirmation of the order, its execution or cancellation with- in five business days;
- c. You have received confirmation of an order or orders which you did not place or any similar conflicting report; or
- d. You become aware of any unauthorized use of your user name(s), password(s), or any product or service related to your brokerage account(s).

If you fail to notify Firstrade Securities Inc. immediately upon the occurrence of any of the above events, you agree that Firstrade Securities Inc. will not have any responsibility or liability to you or any other person whose claim may arise through you for any claims with the handling, mishandling or loss of any order. Any liability of Firstrade Securities Inc. arising out of any action or omission by Firstrade Securities Inc. with respect to the handling, mishandling or loss of any order shall be limited to an amount equal to the loss incurred due to the action or omission during the five business days after the date on which you first became obligated to give Firstrade Securities Inc. notice with respect to such transaction (s) pursuant to this Section. You agree that Firstrade Securities Inc. and/or any of its officers, directors, employees, agents or affiliates will not have any other liability to you or any other person whose claims may arise through you for any consequential, incidental, special or indirect damages, even if Firstrade Securities Inc. has been advised of the possibility of such damages. Firstrade Securities Inc. shall not be responsible for or deemed to be in default under this agreement due to any delay or failure in performance resulting directly or indirectly from any cause beyond Firstrade Securities Inc.'s reasonable control.

6. INDEMNIFICATION: You agree that your use of Firstrade Securities Inc.'s Electronic Services to effect securities transactions will be limited in all respects to the terms and conditions of this agreement and any other agreement between you and Firstrade Securities Inc. Firstrade Securities Inc. will have no liability to you with respect to any transaction or attempted transaction by you which is not in accordance with the terms and conditions specified herein or in such other agreement and you will indemnify Firstrade Securities Inc. from any claim of a third party related to any such transaction or related transaction.

7. ACCOUNT RESTRICTIONS: You agree that Firstrade Securities Inc. reserves the right in its sole discretion to reject, cancel or modify any order which you have placed through Firstrade Securities Inc.'s Electronic Services for any reason and without prior notice to you, including orders for which you have received an order number. You acknowledge that any order you place which Firstrade Securities Inc., in its sole discretion, deems to be disruptive to the securities markets, unusual in size, ripe or credit risk or which exceeds Firstrade Securities Inc.'s usual authorized limits may be subject to rejection, cancellation or modification. You acknowledge that market orders cannot always be canceled and the order may be executed before the request for cancellation is received by Firstrade Securities Inc. You acknowledge that your orders may not be reviewed for accurateness and/or suitability by Firstrade Securities Inc. prior to their submission to a market center and you agree that you are fully responsible for determining the suitability of your orders and your investment decisions. You acknowledge that Firstrade Securities Inc. may, in its sole discretion, place trading restrictions on your account(s).

8. SUSPENSION OR TERMINATION OF SERVICES: You agree that Firstrade Securities Inc. reserves the right in its sole discretion to suspend or terminate your access to any or all of Firstrade Securities Inc.'s Electronic Services for any reason and without prior notice to you. You agree not to hold Firstrade Securities Inc. responsible or liable for any disruptions in service due to: telephone network, computer network or other system problems beyond the control of Firstrade Securities Inc.: system maintenance or system upgrades; or any other event or circumstance beyond the control of Firstrade Securities Inc.

9. PROVISION OF MARKET DATA AND THIRD-PARTY INFORMATION: You agree that the market data, news and other information provided to you through Firstrade Securities Inc.'s Electronic Services (directly or indirectly through an authorized third- party information provider) are for your personal use only and that you will not retransmit or republish these data in any form. You acknowledge that the data provided to you are obtained from sources believed to be reliable, are provided solely on a best efforts basis for your convenience and that no guarantees are made by Firstrade Securities Inc. or any information provider as to their accuracy, completeness, timeliness or correct sequencing. You acknowledge that while access to investment recommendations, advice, opinions and judgments is available through Firstrade Securities Inc.'s Electronic Services, none are developed or endorsed by Firstrade Securities Inc. You agree not to hold Firstrade Securities Inc. for its information or its information providers liable for any investment decision you may make based on your reliance on or use of such data or any liability which may arise due to delays or interruptions in the delivery of such data for any reason.

10. AGREEMENT AMENDMENTS: You agree that Firstrade Securities Inc. may change the terms and conditions of this agreement, in whole or in part, upon notice to you; no provision of this agreement may be amended in any other manner. You agree to use Firstrade Securities Inc.'s Electronic Services and any additional services offered through Firstrade Securities Inc. in the future only in accordance with the terms and conditions specified in this agreement as amended from time to time by Firstrade Securities Inc. and that any amendments to the terms and conditions will be deemed effective upon dissemination by Firstrade Securities Inc. Use of Firstrade Securities Inc.'s Electronic Services after receipt of such amendments will be deemed to be acceptance of such amendments.

11. ENTIRE AGREEMENT: This agreement, together with your account agreement(s) and any user license agreement(s) to which you may be a party (including the Firstrade Securities Inc. Account Agreement and Information Guide), contains the entire agreement between you and Firstrade Securities Inc. with respect to the subject matter contained in this agreement and supersedes all prior communications, whether oral, written or electronic. If any provision of this agreement is held to be invalid, void or unenforceable by reason of any law, rule, administrative order or judicial decision, that determination shall not affect the validity of the remaining provisions of this agreement. This agreement will be governed by the laws of the State of New York.

DAY-TRADING RISK DISCLOSURE

You should consider the following points before engaging in a day-trading strategy. For purposes of this notice, a "day trading strategy" means an overall trading strategy characterized by the regular transmission by a customer of intra-day orders to effect both purchase and sale transactions in the same security or securities.

1. Day trading can be extremely risky.

Day trading generally is not appropriate for someone of limited resources and limited investment or trading experience and low risk tolerance. You should be prepared to lose all of the funds that you use for day trading. In particular, you should not fund day-trading activities with retirement savings, student loans, second mortgages, emergency funds, funds set aside for purposes such as education or home ownership, or funds required to meet your living expenses. Further, certain evidence indicates that an investment of less than \$50,000 will significantly impair the ability of a day trader to make a profit. Of course, an investment of \$50,000 or more will in no way guarantee success.

2. Be cautious of claims of large profits from day trading.

You should be wary of advertisements or other statements that emphasize the potential for large profits in day trading. Day trading can also lead to large and immediate financial losses.

3. Day trading requires knowledge of securities markets.

Day trading requires in-depth knowledge of the securities markets and trading techniques and strategies. In attempting to profit through day trading, you must compete with professional, licensed traders employed by securities firms. You should have appropriate experience before engaging in day trading.

4. Day trading requires knowledge of a firm's operations.

You should be familiar with a securities firm's business practices, including the operation of the firm's order execution systems and procedures. Under certain market conditions, you may find it difficult or impossible to liquidate a position quickly at a reasonable price. This can occur, for example, when the market for a stock suddenly drops, or if trading is halted due to recent news events or unusual trading activity. The more volatile a stock is, the greater the likelihood that problems may be encountered in executing a transaction. In addition to normal market risks, you may experience losses due to systems failures.

5. Day trading will generate substantial commissions, even if the per trade cost is low.

Day trading involves aggressive trading, and generally you will pay commission on each trade. The total daily commissions that you pay on your trades will add to your losses or significantly reduce your earnings. For instance, assuming that a trade costs \$16 and an average of 29 transactions are conducted per day, an investor would need to generate an annual profit of \$111,360 just to cover commission expenses.

6. Day trading on margin or short selling may result in losses beyond your initial investment.

When you day trade with funds borrowed from a firm or someone else, you can lose more than the funds you originally placed at risk. A decline in the value of the securities that are purchased may require you to provide additional funds to the firm to avoid the forced sale of those securities or other securities in your account. Short selling as part of your day trading strategy also may lead to extraordinary losses, because you may have to purchase a stock at a very high price in order to cover a short position.

7. Potential Registration Requirements

Persons providing investment advice for others or managing securities accounts for others may need to register as either an "Investment Advisor" under the Investment Advisors Act of 1940 or as a "Broker" or "Dealer" under the Securities Exchange Act of 1934. Such activities may also trigger state registration requirements.

MARGIN RISK DISCLOSURE

Your brokerage firm is furnishing this document to you to provide some basic guidelines about purchasing securities on margin, and to alert you to the risks involved with trading securities in a margin account. Before trading stocks in a margin account, you should carefully review the margin agreement provided by your firm. Consult your firm regarding any questions or concerns you may have with your margin accounts.

When you purchase securities, you may pay for the securities in full or you may borrow part of the purchase price from your brokerage firm. If you choose to borrow funds from your firm, you will open a margin account with the firm. The securities purchased are the firm's collateral for the loan to you. If the securities in your account decline in value, so does the value of the collateral supporting your loan, and, as a result, the firm can take action, such as issue a margin call and/or sell securities in your account, in order to maintain the required equity in the account.

It is important that you fully understand the risks involved in trading securities on margin. These risks include the following:

You can lose more funds than you deposit in the margin account. A decline in the value of securities that are purchased on margin may require you to provide additional funds to the firm that has made the loan to avoid the forced sale of those securities or other securities in your account.

The firm can force the sale of securities in your account. If the equity in your account falls below the maintenance margin requirements under the law, or the firm's higher "house" requirements, the firm can sell the securities in your account to cover the margin deficiency. You also will be responsible for any shortfall in the account after such a sale.

The firm can sell your securities without contacting you. Some investors mistakenly believe that a firm must contact them for a margin call to be valid, and that the firm cannot liquidate securities in their accounts to meet the call unless the firm has contacted them first. This is not the case. Most firms will attempt to notify their customers of margin calls, but they are not required to do so. However, even if a firm has contacted a customer and provided a specific date by which the customer can meet a margin call, the firm can still take necessary steps to protect its financial interests, including immediately selling the securities without notice to the customer.

You are not entitled to choose which security in your margin account is liquidated or sold to meet a margin call. Because the securities are collateral for the margin loan, the firm has the right to decide which security to sell in order to protect its interests.

The firm can increase its "house" maintenance margin requirements at any time and is not required to provide you with advance written notice. These changes in firm policy often take effect immediately and may result in the issuance of a maintenance margin call. Your failure to satisfy the call may cause the member 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.

Privacy Policy

Your Privacy is our Priority.

FIRSTRADE is committed to protecting our customers' personal and financial information. In the course of providing you with FIRSTRADE's brokerage services, we need to collect and maintain certain nonpublic personal information about you. This Privacy Policy answers some questions about what nonpublic personal information we collect, what we do with it, and how we protect it.

What types of nonpublic personal information about me does FIRSTRADE collect?

When you apply for or maintain an account with FIRSTRADE, we collect the following types of information:

- Information provided by you, such as your name, address, social security number, date of birth, employment information, and financial status.
- Information about your transactions with us such as account balance and trading activity.
- In some cases we will collect information from consumer-reporting agencies.

What types of nonpublic personal information about me does FIRSTRADE disclose?

FIRSTRADE discloses the nonpublic personal information about you described above, primarily to provide you with the financial services you seek from us. We do not disclose nonpublic personal information about former customers, except as required or permitted by law. FIRSTRADE does not sell your personal information.

What types of companies (other than those companies used to service transactions) does FIRSTRADE disclose my nonpublic personal information to?

In some limited circumstances, FIRSTRADE may disclose nonpublic personal information about you to a non-financial services company, such as a retailer, with which we may have a marketing program. The information shared is limited to your name, contact information, and type of account opened. Account balance, trading activity, and credit information is never disclosed. If you exercise your right to not share this information (opt-out) with these non-financial services companies, your information will not be disclosed.

What are my rights to opt-out of disclosure and how can I exercise them?

If you prefer that we do not disclose nonpublic personal information about you to the non-financial services companies described in the paragraph above, you may opt-out of those disclosures, that is, you may direct us not to make those disclosures (other than those disclosures required by law).

You may provide your name, address, email address, daytime phone, your account number and opt-out request to us by email at service@firstrade.com or by calling 1-800-869-8800.

To what other types of entities might FIRSTRADE disclose my nonpublic personal information?

FIRSTRADE may disclose information we collect from you, such as your contact information, to service providers who perform marketing functions on our behalf. Specifically, your name, address and/or email address are sometimes provided to vendors who send email or regular mail on FIRSTRADE's behalf.

We disclose information to nonaffiliated companies that work for us in providing financial services to you. For example, we provide information to nonaffiliated companies that prepare and mail statements and transaction confirmations. These companies acting on our behalf are required to keep your personal information confidential.

Finally, FIRSTRADE discloses nonpublic personal information to nonaffiliated third parties as permitted or required by law. These parties include government/regulatory organizations such as the Internal Revenue Service (IRS) and the Securities and Exchange Commission (SEC). Disclosures for which you have provided your consent are also permitted.

How does FIRSTRADE protect the confidentiality and security of my nonpublic personal information?

We maintain physical, electronic, and procedural safeguards that comply with federal standards to guard your nonpublic personal information. We protect your account information by placing it on the secure portion of our website. Our servers have been enabled with Secure Sockets Layer (SSL) technology to prevent unauthorized parties from viewing your nonpublic personal information that you provide or access during a secure session. In addition, we employ VeriSign's digital certificate services to encrypt the information exchanged between you and Firstrade.com.

Access to your nonpublic personal information is limited to those employees who need to know that information to provide products or services to you, such as customer service personnel.

You can take steps to maximize your security online and to protect your confidential information. NEVER share your Password with anyone, and change it periodically. You can change your Login and Trading Passwords at any time through the Administration section under the Account Manager tab. When using the FIRSTRADE website, you should always exit by using "Logout" which is located at the top of every web page or close your browser completely.

What should I know about "cookies"?

"Cookies" are elements of data that a website can send to your browser and store on your computer. Cookies can note that your browser was used to visit certain sites, pages, or advertisements on a certain date. Cookies cannot be used to obtain data from your hard drive, get your e-mail address or steal sensitive or personal information about you. FIRSTRADE uses cookies to enhance navigation and functionality of our website, to securely verify your identity, and to personalize aspects of your experience on our website. We also use cookies to let us know how visitors are using our website, so that we can improve our website and your experience on it. You do have control over cookies. Most browsers can be set to notify you when a cookie is being placed on your computer. You can also set most browsers to refuse to accept cookies, although this may affect your Internet experience. You can also erase cookies that are already on your computer. For more information on working with cookies, you should consult the User Manual, FAQ, or Help function of your specific browser and operating system software.

For answers to other questions regarding FIRSTRADE's Privacy Policy, please email service@firstrade.com or call 1-888-869-8800.

CUSTOMER ACCOUNT AGREEMENT

This Customer Account Agreement (the "Agreement") sets forth the respective rights and obligations of Apex Clearing Corporation ("you" or "your" or "Apex") and the Customer's (as defined below) brokerage firm (the "Introducing Broker"), and the customer(s) identified on the New Account Application (the "Customer") in connection with the Customer's brokerage account with the Introducing Broker ("the Account"). The Customer hereby agrees as follows with respect to the Account, which the Customer has established with the Introducing Broker for the purchase, sale or carrying of securities or contracts relating thereto and/or the borrowing of funds, which transactions are cleared through you. To help the government fight the funding of terrorism and money laundering, Federal law requires all financial institutions to obtain, verify, and record information that identifies each person who opens an account. In order to open an account, the Customer will provide information that will allow you to identify the Customer including, but not limited to, the Customer's name, address, date of birth, and the Customer's driver's license or other identifying documents.

1. Applicable Rules and Regulations. All transactions for the Account shall be subject to the constitution, rules, regulations, customs and usages of the exchange or market and its clearing house, if any, upon which such transactions are executed, except as otherwise specifically provided in this Agreement.

2. Definitions. "Obligations" means all indebtedness, debit balances, liabilities or other obligations of any kind of the Customer to you, whether now existing or hereafter arising. "Securities and other property" shall include, but shall not be limited to, money, securities, commodities or other property of every kind and nature and all contracts and options relating thereto, whether for present or future delivery.

2A. Investment Objective Definitions. "**Capital Preservation**" - a conservative investment strategy characterized by a desire to avoid risk of loss; "**Income**" - strategy focused on current income rather than capital appreciation; "**Growth**" - investing in stocks with strong earnings and/or revenue growth or potential; "**Speculation**" - taking larger risks, usually by frequent trading, with hope of higher than-average gain. All strategies involve various types and levels of risk, the most common of which are market, credit, inflation, business and interest rate.

3. Breach; Security Interest. Whenever in your discretion you consider it necessary for your protection, or for the protection of the Customer's Introducing Broker or in the event of, but not limited to; (i) any breach by the Customer of this or any other agreement with you or (ii) the Customer's failure to pay for securities and other property purchased or to deliver securities and other property sold, you may sell any or all securities and other property held in any of the Customer's accounts (either individually or jointly with others), cancel or complete any open orders for the purchase or sale of any securities and other property, and/or borrow or buy-in any securities and other property required to make delivery against any sale, including a short sale, effected for the Customer, all without notice or demand for deposit of collateral, other notice of sale or purchase, or other notice or advertisement, each of which is expressly waived by the Customer, and/or you may require the Customer to deposit cash or adequate collateral to the Customer's account prior to any settlement date in order to assure the performance or payment of any open contractual commitments and/or unsettled transactions. You have the right to refuse to execute securities transactions for the Customer at any time and for any reason. Any and all securities and other property belonging to the Customer or in which the Customer may have an interest held by you or carried in any of the Customer's accounts with you (either individually or jointly with others) shall be subject to a first and prior security interest and lien for the discharge of the Customer's obligations to you, wherever or however arising and without regard to whether or not you have made advances with respect to such securities and other property, and you are hereby authorized to sell and/or purchase any and all securities and other property in any of the Customer's accounts, and/or to transfer any such securities and other property among any of the Customer's accounts to the fullest extent of the law and without notice where allowed. The losses, costs and expenses, including but not limited to reasonable attorneys' fees and expenses, incurred and payable or paid by you in the (i) collection of a debit balance and/or any unpaid deficiency in the accounts of the Customer with you or (ii) defense of any matter arising out of the Customer's securities transactions, shall be payable to you by the Customer. The Customer understands that because of circumstances beyond broker-dealers control, its customers' voting rights may be impaired. For example, if the stock of a company that another customer has purchased has not yet been received from the seller(s), then other customers' abilities to vote that company's stock could be impaired until those shares are received. In addition, if the stock of a company that the Customer has purchased has not yet been received from the seller(s), then payments received by the Customer from the Introducing Broker, in lieu of the dividends on that stock not yet received, may receive tax treatment less favorable than that accorded to dividends.

4. Cancellation. You are authorized, in your discretion, should you for any reason whatsoever deem it necessary for your protection, without notice, to cancel any outstanding order, to close out the accounts of the Customer, in whole or in part, or to close out any commitment made on behalf of the Customer.

5. Payment of Indebtedness Upon Demand. The Customer shall at all times be liable for the payment upon demand of any obligations owing from the Customer to you, and the Customer shall be liable to you for any deficiency remaining in any such accounts in the event of the liquidation thereof (as contemplated in Paragraph 3 of this Agreement or otherwise), in whole or in part, by you or by the Customer; and the Customer shall make payment of such obligations upon demand.

6. Accounts Carried as Clearing Broker. The Customer understands that you are carrying the accounts of the Customer as clearing broker by arrangement with the Customer's Introducing Broker through whose courtesy the account of the Customer has been introduced to you. Until receipt from the Customer of written notice to the contrary, you may accept from and rely upon the Customer's Introducing Broker for (a) orders for the purchase or sale in said account of securities and other property, and (b) any other instructions concerning the Customer's accounts. The Customer represents that the Customer understands that you act only to clear trades introduced by the Customer's Introducing Broker and to effect other back office functions for the Customer's introducing broker. The Customer confirms to you that the Customer is relying for any advice concerning the Customer's accounts solely on the Customer's Introducing Broker. The Customer understands that all representatives, employees and other agents with whom the Customer communicates concerning the Customer's account are agents of the Introducing Broker, and not your representatives, employees or other agents and the

Customer will in no way hold you liable for any trading losses that the Customer may incur. The Customer understands that you are not a principal of or partner with, and do not control in any way, the Introducing Broker or its representatives, employees or other agents. The Customer understands that you will not review the Customer's accounts and will have no responsibility for trades made in the Customer's accounts. You shall not be responsible or liable for any acts or omissions of the Introducing Broker or its representatives, employees or other agents. Notwithstanding the foregoing, in the event that the Customer initiates a claim against you in your capacity as clearing broker and does not prevail, the Customer shall be responsible for the costs and expenses associated with your defense of such claim. The Customer understands you shall be entitled to exercise and enforce directly against the Customer all rights granted to the Introducing Broker.

6A. Accounts Carried as Custodian. In some cases the Customer's account is being carried by arrangement with the Customer's Investment Advisor or Investment Manager, who uses you as their Broker-Dealer custodian. The Customer acknowledges that your role as custodian is to hold or custody account assets, distribute or collect funds on behalf of the Customer's account, execute and clear trades under instruction of the Customer's Investment Advisor or Investment Manager, generate account statements and provide other custodial services as may be mandated by various regulatory standards and requirements. The Customer understands that in the capacity as custodian, you will not offer investment advice, review the Customer's accounts, and will have no responsibility for trades made in the Customer's accounts. Additionally, in your capacity as custodian, you will not verify the accuracy of management fees that the Customer pays to Investment Advisors or Investment Managers pursuant to the terms of the Investment Management Agreement executed between the Customer and the Investment Advisor or Investment Manager. Notwithstanding the foregoing, in the event that the Customer initiates a claim against you in your capacity as custodial broker and does not prevail, the Customer shall be responsible for the costs and expenses associated with your defense of such claim.

7. Communications. You may send communications to the Customer at the Customer's address on the New Account Application or at such other address as the Customer may hereafter give you in writing, and all communications so sent, whether by mail, telegraph, or otherwise, shall be deemed given to the Customer personally, whether actually received or not. Reports of execution of orders and statements of accounts of the Customer shall be conclusive if not objected to in writing to you, the former within five (5) days and the latter within ten (10) days, after forwarding by you by mail or otherwise. In consideration of your sending any mail to me in care of a Post Office Box Address or a third party, I hereby agree that "all correspondence of any nature whatsoever" sent to me in such address will have the same force and effect as if it had been delivered to me personally.

8. ARBITRATION AGREEMENT. THIS AGREEMENT CONTAINS A PREDISPUTE 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 FORM 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.

THE FOLLOWING ARBITRATION AGREEMENT SHOULD BE READ IN CONJUNCTION WITH THE DISCLOSURES ABOVE. ANY AND ALL CONTROVERSIES, DISPUTES OR CLAIMS BETWEEN THE CUSTOMER AND YOU, OR THE INTRODUCING BROKER, OR THE AGENTS, REPRESENTATIVES, EMPLOYEES, DIRECTORS, OFFICERS OR CONTROL PERSONS OF YOU OR THE INTRODUCING BROKER, ARISING OUT OF, IN CONNECTION WITH, FROM OR WITH RESPECT TO (a) ANY PROVISIONS OF OR THE VALIDITY OF THIS AGREEMENT OR ANY RELATED AGREEMENTS, (b) THE RELATIONSHIP OF THE PARTIES HERETO, OR (c) ANY CONTROVERSY ARISING OUT OF YOUR BUSINESS, THE INTRODUCING BROKER'S BUSINESS OR THE CUSTOMER'S ACCOUNTS, SHALL BE CONDUCTED PURSUANT TO THE CODE OF ARBITRATION PROCEDURE OF THE **FINANCIAL INDUSTRY REGULATORY AUTHORITY ("FINRA")**. THE DECISION AND AWARD OF THE ARBITRATOR(S) SHALL BE CONCLUSIVE AND BINDING UPON ALL PARTIES, AND ANY JUDGMENT UPON ANY AWARD RENDERED MAY BE ENTERED IN A COURT HAVING JURISDICTION THEREOF, AND NEITHER PARTY SHALL OPPOSE SUCH ENTRY.

No person shall bring a putative or certified class action to arbitration, nor seek to enforce any pre-dispute 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; or (ii) the class is de-certified; 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.

9. Representations. The Customer represents that the Customer is of majority age, that the Customer is not an employee of any exchange, or of any corporation of which any exchange owns a majority of the capital stock, or of a member of any exchange, or of a member firm or member corporation registered on any exchange or of a bank, trust company, insurance company or of any corporation, firm or individual engaged in the business dealing either as broker or as principal in securities, bills of exchange, acceptances or other forms of commercial paper. If the Customer is a corporation, partnership, trust or other entity, the Customer represents that its governing instruments permit this Agreement, that this Agreement has been authorized by all applicable persons and that the signatory on the New Account Application is authorized to bind the Customer. The Customer represents that the Customer shall comply with all applicable laws, rules and regulations in connection with the Customer's account. The Customer further represents that no one except the Customer has an interest in the account or accounts of the Customer with you.

10. Joint Accounts. If the New Account Application indicates that the Account shall consist of more than one person, the Customer's obligations under this Agreement shall be joint and several. References to the "Customer" shall include each of the customers identified on the New Account Application. You may rely on transfer or other instructions from any one of the Customers in a joint account, and such instructions shall be binding on each of the Customers. You may deliver securities or other property to, and send confirmations; notices, statements and communications of every kind, to any one of the Customers, and such action shall be binding on each of the Customers. Notwithstanding the foregoing, you are authorized in your discretion to require joint action by the joint tenants with respect to any matter concerning the joint account, including but not limited to the giving or cancellation of orders and the withdrawal of money or securities. In the case of Tenants by the Entirety accounts, joint action will be required for all matters concerning the joint account. Tenants by Entirety is not recognized in certain jurisdictions, and, where not expressly allowed, will not be a permitted designation of the account.

11. Other Agreements. If the Customer trades any options, the Customer agrees to be bound by the terms of your Customer Option Agreement. The Customer understands that copies of these agreements are available from you and, to the extent applicable, are incorporated by reference herein. The terms of these other agreements are in addition to the provisions of this Agreement and any other written agreements between you and the Customer.

12. Data Not Guaranteed. The Customer expressly agrees that any data or online reports is provided to the Customer without warranties of any kind, express or implied, including but not limited to, the implied warranties of merchantability, fitness of a particular purpose or non-infringement. The Customer acknowledges that the information contained in any reports provided by you is obtained from sources believed to be reliable but is not guaranteed as to its accuracy or completeness. Such information could include technical or other inaccuracies, errors or omissions. In no event shall you or any of your affiliates be liable to the Customer or any third party for the accuracy, timeliness, or completeness of any information made available to the Customer or for any decision made or taken by the Customer in reliance upon such information. In no event shall you or your affiliated entities be liable for any special incidental, indirect or consequential damages whatsoever, including, without limitation, those resulting from loss of use, data or profits, whether or not advised of the possibility of damages, and on any theory of liability, arising out of or in connection with the use of any reports provided by you or with the delay or inability to use such reports.

13. Payment for Order Flow Disclosure. Depending on the security traded and absent specific direction from the Customer, equity and option orders are routed to market centers (i.e., broker-dealers, primary exchanges or electronic communication networks) for execution. Routing decisions are based on a number of factors including the size of the order, the opportunity for price improvement and the quality of order executions, and decisions are regularly reviewed to ensure the duty of best execution is met. You or the Introducing Broker may receive compensation or other consideration for the placing of orders with market centers for execution. The amount of the compensation depends on the agreement reached with each venue. The source and nature of compensation relating to the Customer's transactions will be furnished upon written request.

14. Credit Check. You are authorized, in your discretion, should you for any reason deem it necessary for your protection to request and obtain a consumer credit report for the Customer.

15. Miscellaneous. If any provision of this Agreement is held to be invalid or unenforceable, it shall not affect any other provision of this Agreement. The headings of each section of this Agreement are descriptive only and do not modify or qualify any provision of this Agreement. This Agreement and its enforcement shall be governed by the laws of the state of Texas and shall cover individually and collectively all accounts which the Customer has previously opened, now has open or may open or reopen with you, or any introducing broker, and any and all previous, current and future transactions in such accounts. Except as provided in this Agreement, no provision of this Agreement may be altered, modified or amended unless in writing signed by your authorized representative. This Agreement and all provisions shall inure to the benefit of you and your successors, whether by merger, consolidation or otherwise, your assigns, the Introducing Broker, and all other persons specified in Paragraph 8. You shall not be liable for losses caused directly or indirectly by any events beyond your reasonable control, including without limitation, government restrictions, exchange or market rulings, suspension of trading or unusually heavy trading in securities, a general change in economic, political or financial conditions, war or strikes. You may transfer the accounts of the Customer to your successors and assigns. This Agreement shall be binding upon the Customer and the heirs, executors, administrators, successors and assigns of the Customer. Failure to insist on strict compliance with this Agreement is not considered a waiver of your rights under this Agreement. At your discretion, you may terminate this Agreement at anytime on notice to the Customer, the Customer will continue to be responsible for any obligation incurred by the Customer prior to termination. The Customer may not assign the Customer's rights or delegate the Customer's obligations under this Agreement, in whole or in part, without your prior consent.

16. SIPC Protection. As a member of the Securities Investor Protection Corporation (SIPC), funds are available to meet customer claims up to a ceiling of \$500,000, including a maximum of \$250,000 for cash claims. For additional information regarding SIPC coverage, including a brochure, please contact SIPC at (202) 371-8300 or visit www.sipc.org. Apex has purchased an additional insurance policy through a group of London Underwriters to supplement SIPC protection. This additional insurance policy becomes available to customers in the event that SIPC limits are exhausted and provides protection for securities and cash up to certain limits. Similar to SIPC protection, this additional insurance does not protect against a loss in the market value of securities.

17. Sweep Program. If the Customer elects to participate in one of your FDIC or money market sweep programs, the Customer acknowledges and agrees that: (a) the Customer has read and understands the sweep program terms and conditions and/or prospectuses available at <http://www.apexclearing.com/disclosures/> and is aware of the products available in such sweep programs; (b) you may make changes to your FDIC and/or money market sweep programs and products at any time, in your sole discretion and with or without notice to Customer; (c) the free credit balances in the Customer's Account may begin being included in the sweep program upon Account opening; and (d) you have no obligation to monitor the applicable sweep program elected for the Customer's Account or to make recommendations about, or changes to, the sweep program that might be beneficial to the Customer.

18. Tax Treaty Eligibility. This agreement shall serve as the Customer's certification that you are eligible to receive tax treaty benefits between the country or (of) residence indicated on the new account form and the country(ies) of origin holding jurisdiction over the instruments held within the customer's account.