

Client Name: _____ Account Number: _____

Date of Delivery of Privacy Policy: _____

For use by entity accounts only (i.e. corporations, partnerships, trusts): Is this account for a foreign bank? Yes / No

If yes, please list Agent for service of process:

Is this account for a foreign shell bank? Yes / No

Does this firm offer services to a foreign shell bank? Yes / No

If you answered yes to any of the above questions, Corporation will need to complete Certification Regarding Correspondent Accounts.

Print Name: _____

Signature: _____

Title: _____

Date: _____

Print Name: _____

Signature: _____

Title: _____

Date: _____

To Investrade Discount Securities:

In consideration of your opening one or more accounts on my behalf, I represent and agree as follows:

1. I am of legal age, authorized to enter into this agreement, and except as otherwise disclosed to you, I am not an employee of any exchange or a member firm of any exchange or the FINRA, and that I will promptly notify you if I become so employed.
2. I appoint you as my agent for the purpose of carrying my directions to you in accordance with the terms and conditions of my agreement with you for my account and risk with respect to the purchase or sale of securities. To carry out your duties, you are authorized to open or close brokerage accounts, place and withdraw orders, and take such other steps as are reasonable to carry out my directions.
3. I understand that Penson Financial Services, Inc. will execute and clear all transactions under this agreement.
4. I understand that you provide no investment advice in connection with the account nor do you give advice or offer any opinion with respect to the suitability of any security or order unless the account is otherwise specifically approved for participation in mutual funds, bonds, and/or preferred stock transactions. All transactions will be done only on my order or my authorized delegate, except as described in paragraph 8.
5. This is to confirm my intention to reinvest cash credit balances held by you in my name, and I further confirm that this cash credit balance is being maintained with you solely for the purpose of reinvestment. I understand that cash balances of up to \$100,000 are protected by the Securities Investor Protection Corporation (SIPC), but that SIPC coverage is not available for funds maintained solely for the purpose of earning interest.
6. Account Protection. Investrade Discount Securities is a division of Regal Securities, Inc., a member of the Securities Investor Protection Corporation (SIPC), and as a member of the SIPC, funds are available to meet customer claims up to a ceiling of \$500,000, including a maximum of \$100,000 for cash claims. For additional information regarding SIPC coverage, including a brochure, please contact SIPC at (202) 371-8300 or visit www.sipc.org. Our clearing firm 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 \$600 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 \$150 million, including cash of up to \$2 million. Similar to SIPC protection, this additional insurance does not protect against a loss in the market value of securities.
7. Whenever in your discretion you consider it necessary for your protection, or for the protection of the undersigned's introducing firm or in the event of, but not limited to: (i) any breach by the undersigned of this or any other agreement with you or (ii) the undersigned'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 undersigned'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 undersigned, all without demand for deposit of collateral, other notice of sale or purchase, or other notice or advertisement, each of which is expressly waived by the undersigned, and/or you may require the undersigned to deposit cash or adequate collateral to the undersigned's account prior to any settlement date in order to assure the performance or payment of any open contractual commitments and/or unsettled transactions. Any and all securities and other property belonging to the undersigned or in which the undersigned may have an interest held by you or carried in any of the undersigned'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 undersigned'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 undersigned's accounts, and/or to transfer any such securities and other property among any of the undersigned's accounts to the fullest extent of the law and without notice where allowed. The costs and expenses of collection of the debit balance and any unpaid deficiency in the accounts of the undersigned with you, including but not limited to reasonable attorneys' fees and expenses, incurred and payable or paid by you shall be payable to you by the undersigned.
8. 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 undersigned, in whole or in part, or to close out any commitment made on behalf of the undersigned.
9. I understand and agree that any telephone conversation with you will be recorded for accuracy.
10. In the event I become indebted to you in the course of operation of this account, I agree that I will repay such indebtedness upon demand. I agree that if after demand I fail to pay the indebtedness, you may close my account and liquidate the assets in my account on a pro rata basis in an amount sufficient to pay my indebtedness. If Customer also holds a futures account with Penson Financial Futures, Inc. ("PFFI"), Customer hereby authorizes Penson, without prior notice, to transfer from any account held with Penson to any account held with PFFI, any assets that PFFI represents to Penson are reasonably required to avoid the calling of margins for such PFFI account or the payment of any obligations owed Penson by Customer. Customer also authorizes Penson to request from PFFI assets held by PFFI that in Penson's judgment may be reasonably required to avoid the calling of margins for a Penson account or the payment of any obligations owed Penson by Customer.
11. Upon the purchase or sale of any security, if you are unable to settle the transaction by reason of my failure to make payment or deliver securities in good form, I authorize you to take steps necessary to complete the transaction, in which event I agree to reimburse you for all costs, losses or liabilities incurred by you.
12. This agreement and all transactions made in my account shall be governed by the laws of the Commonwealth of Pennsylvania (regardless of the choice of law rules thereof).
13. I agree that neither Penson nor Investrade Discount Securities and its affiliates will be liable for any consequential, incidental, special, or indirect damage (including lost profits, trading losses, and damages) which result or indirectly from inconvenience, delay, or loss of service; a cause over which Penson or Investrade Discount Securities or its affiliates does not have direct control, including, but not limited to, failure of electronic or government restriction(s), exchange or market rules, and "force majeure" (i.e. war, strike, riot, flood, fire, extraordinary weather, or other act of God), or any other condition beyond its control even if Investrade Discount Securities has been advised of the possibility of such damages.
14. The reasonable costs of collection of the debit balance and any unpaid deficiency in my accounts, including attorney's fees incurred by you, shall be reimbursed by me to you.
15. I agree to have available or agree to deliver sufficient funds to cover the amount due on purchases by 2:00 p.m. Eastern Time on settlement date, and I agree to deliver any securities I have in my possession in sufficient time to be received by Investrade Discount Securities one day before settlement date.
16. In consideration of your carrying a joint account for the undersigned, the undersigned jointly and severally agree that each of them shall have authority on behalf of the joint account to buy, sell (including short sales) and otherwise deal in, through you as brokers, stocks, bonds, and other securities on margin or otherwise; to receive on behalf of the joint account demands, notices, confirmations, reports, statements of account and communications of every kind; to receive on behalf of the joint account money, securities and property of every kind and to dispose of same; to make on

- behalf of joint account agreements relating to any of the foregoing matters and to terminate or modify same or waive any of the provisions thereof; and generally to deal with you on behalf of the joint account as fully and completely as if he alone were interested in said account, all without notice to the other or others interested in said account. You are authorized to follow the instructions of any of the undersigned in every respect concerning the said joint account with you and to make deliveries to any of the undersigned, or upon his instructions, of any or all securities in said joint account, and to make payments to any of the undersigned, or upon his order, of any or all monies at any time or from time to time in the said joint account as he may order and direct, for the benefit of the joint account. 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, securities, futures or commodities. The authority hereby conferred shall remain in force until written notice of the revocation addressed to you is delivered at your main office.
17. The liability of the undersigned with respect to said account shall be joint and several. The undersigned further agrees jointly and severally that all property you may at any time be holding or carrying for any one or more of the undersigned shall be subject to a lien in your favor for the discharge of the joint account to you, such lien to be in addition to and not in substitution of the rights and remedies you otherwise would have.
 18. It is further agreed that in the event of death of either of any of the undersigned, the survivor or survivors shall immediately give you written notice thereof, and you may, before or after receiving such notice, take such proceedings, require such papers and inheritance or estate tax waivers, and retain such portion of and/or restrict transactions in the account as you may deem advisable to protect you against any tax, liability, penalty or loss under any present or future laws or otherwise. The estate of any of the undersigned who shall have died shall be liable, and each survivor shall continue liable jointly and severally, to you for any net debit balance or loss in said account in any way resulting from the completion of transactions initiated prior to the receipt by you of the written notice of the death of the decedent or incurred in the liquidation of the account or the adjustment of the interests of the respective parties.
 19. The proceeds of all sales transactions and dividends paid will be reported to the Internal Revenue Service (IRS) in accordance with applicable law.
 20. The undersigned (1) certifies that the information contained in this application is complete, true and correct, and acknowledges that knowingly giving false information for the purpose of inducing Investrade Discount Securities to extend credit is a federal crime; (2) authorizes Investrade Discount Securities to contact any individual or firm noted herein and any other normal sources of debit or credit information; (3) authorizes anyone so contacted to furnish such information to Investrade Discount Securities as Investrade Discount Securities may request; (4) agrees that this application is the property of Investrade Discount Securities and Investrade Discount Securities may retain this application in its record at its sole discretion, whether or not credit is extended.
 21. "Unless otherwise instructed, Penson Financial Services, Inc. routes equity orders taking into consideration, among other factors, the quality and speed of execution as well as the credits and cash payments receivable from the New York Stock Exchange, Inc. and other market centers. Equity orders are generally eligible for possible price improvement. Specialists and Dealers accomplish this by exposing the order to competition, size guarantees or by stopping the order temporarily at the current inside bid or offer and providing the Specialist or Dealer the opportunity to improve the price. The nature and source of any payments and/or credits received in connection with your specific transactions will be furnished upon written requests."
 22. If any provision hereof is or at any time should be inconsistent with any present or future law, rule or regulation of any securities exchange or of any sovereign government or a regulatory body thereof, and if any of these bodies have jurisdiction over the subject matter of this agreement, said provision shall be deemed to be superseded or modified to conform to such law, rule, or regulation, but in all other respects, this Agreement shall continue and remain in full force and effect.
 23. I understand market data, including stock price quotations, are obtained from independent pricing services believed to be reliable. I agree that Penson or Investrade Discount Securities cannot and do not guarantee the accuracy of such data and will not be liable for any consequential, incidental, special, or indirect damages (including lost profits, trading losses, and damages) which result from reliance upon the same. The undersigned expressly agrees that any data or online reports is provided to the undersigned 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 undersigned 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 undersigned or any third party for the accuracy, timeliness, or completeness of any information made available to the undersigned or for any decision made or taken by the undersigned 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.
 24. You may send communications to the undersigned at the undersigned's address or at such other address as the undersigned may hereafter give you in writing, and all communications so sent, whether by mail, telegraph, or otherwise, shall be deemed given to the undersigned personally, whether actually received or not. Reports of execution of orders and statements of accounts of the undersigned 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.

25. THE FOLLOWING ARBITRATION AGREEMENT SHOULD BE READ IN CONJUNCTION WITH THESE DISCLOSURES:

- 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.**
- e. **THE PANEL OF ARBITRATORS WILL TYPICALLY 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.**
- h. **ARBITRATION AGREEMENT. ANY AND ALL CONTROVERSIES, DISPUTES OR CLAIMS BETWEEN THE UNDERSIGNED 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 UNDERSIGNED'S ACCOUNTS, SHALL BE CONDUCTED PURSUANT TO THE CODE OF ARBITRATION PROCEDURE OF THE FINRA. ARBITRATION MUST BE COMMENCED BY SERVICE OF A WRITTEN DEMAND FOR ARBITRATION OR A WRITTEN NOTICE OF INTENTION TO ARBITRATE. 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.

- 26. Important information about procedures for Opening a New Account.** To help the US 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.

NOTICE TO PENSON FINANCIAL SERVICES, INC.

The undersigned understands that you are carrying the accounts of the undersigned as clearing broker by arrangement with the undersigned's introducing broker through whose courtesy the account of the undersigned has been introduced to you. Until receipt from the undersigned of written notice to the contrary, you may accept from and rely upon the undersigned'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 undersigned's accounts. The undersigned represents that the undersigned understands that you act only to clear trades introduced by the undersigned's introducing broker and to effect other back office functions for the undersigned's introducing broker. The undersigned confirms to you that the undersigned is relying for any advice concerning the undersigned's accounts solely on the undersigned's introducing broker. The undersigned understands that all representatives, employees and other agents with whom the undersigned communicates concerning the undersigned's account are agents of the introducing broker, and not your representatives, employees or other agents. The undersigned understands that you are not a principal or partner with, and do not control in any way, the introducing broker or its representatives, employees or other agents. The undersigned understands that you will not review the undersigned's accounts and will have no responsibility for trades made in the undersigned'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 undersigned initiates a claim against you in your capacity as clearing broker and does not prevail, the undersigned shall be responsible for the costs and expenses associated with your defense of such claim.