

IV OPTION AGREEMENT

Meaning of terms in the Agreement: "Client" refers to the person(s) who signed this Option Agreement and Approval Form. "Pershing" refers to Pershing LLC. "Financial Organization" refers to the broker, bank, or other financial organization that has introduced my (our) account to Pershing. The word "you" refers to Pershing and/or the Financial Organization, as appropriate.

1. The Client acknowledges receipt of the notice pursuant to Rule 382(c) of the New York Stock Exchange, which explains the contractual relationship between Pershing and the Financial Organization. The Client understands that this notice also appears on each of the Client's account statements. The Client understands that the Financial Organization is not acting as the agent of Pershing. The Client understands that Pershing merely accepts from the Financial Organization orders for the purchase and sale of securities and instructions relating to other property in the Client's account and that Pershing is not in a position, nor undertakes any responsibility, to give advice, make suitability determinations, supervise, or oversee the Financial Organization's handling of the responsibilities undertaken by the Financial Organization pursuant to any agreement the Client may have with the Financial Organization.
2. The Client understands and is well aware that option trading may be highly speculative in nature. The Client is also aware that on certain days, option trading may cease and this could result in a financial loss to the Client. The Client agrees to hold you harmless for such loss.
3. The Client recognizes that by writing or selling an option contract (such as a call, put, or straddle) without depositing the underlying security, the Client's risk of loss is potentially unlimited. The Client agrees to honor all assignments and deliver the underlying security or the required funds in the prescribed time to you and upon the Client's failure to do so in the proper time, you are hereby authorized to act as agent for the Client and to buy in or sell out such securities at the current market price or otherwise act to properly margin or complete the Client's obligation. The Client agrees to pay you a commission and fee for such service and to reimburse you for any loss incurred in connection therewith and you are authorized to debit the Client's account for all such amounts.
4. The Client agrees that the Client is responsible for making all final decisions as to transactions effected in any account of the Client at your firm. The Client understands that each order the Client enters (to buy or to sell) must be complete as to security, quantity, price, and duration of the order.
5. The Client is willing and able to assume the financial risks and hazards of option trading, and the Client agrees that the Client will in no way hold Pershing responsible for such losses whether incurred through following the Financial Organization's trading recommendations or suggestions offered to the Client in good faith by the Financial Organization or through the Client's own decisions however arrived at by the Client.
6. The Client understands that any Option Transaction made for any account of the Client is subject to the rules, regulations, customs, and usages of The Options Clearing Corporation (OCC) and of the registered national securities exchange, national securities association, clearing organization, or market where such transaction was executed. The Client agrees to abide by such rules, regulations, and usages and the Client agrees that, acting individually or in concert with others, the Client will not exceed any applicable position or exercise limits imposed by such exchange, association, clearing organization, or other market with respect to option trading.
7. If the Client does not satisfy, on a timely basis, your money or security calls, you are authorized in your sole discretion, and without notification, to take any and all steps you deem necessary to protect yourself (for any reason) in connection with options transactions for the Client's account, including the right to buy and/or sell (including short or short exempt) for the Client's account and risk any part or all of the shares represented by options handled, purchased, sold, and/or endorsed by you for the Client's account or to buy for the Client's account and risk any option as you may deem necessary or appropriate. Any and all expenses or losses incurred in this connection will be reimbursed by the Client.
8. The Client bears full responsibility for taking action to exercise an option contract; provided, however, that with respect to certain expiring options, you are authorized to permit exercise by exception to take place automatically pursuant to the rules of the OCC as in effect from time to time unless the Client specifically advises you to the contrary in writing. This procedure affects options which are in the money by a predetermined amount as set forth in the rules of the OCC. Additional information regarding this procedure is available upon your written request.
9. In addition to the terms and conditions hereof, the Client's options account will be subject to all of the terms and conditions of all other agreements heretofore or hereafter at any time entered into with you relating to the purchase and sale of securities except to the extent that such other agreements are contrary to or inconsistent herewith.
10. This agreement shall apply to all puts or calls which you may have executed, purchased, sold, or handled for any account of the Client and also shall apply to all puts or calls which you may hereafter purchase, sell, handle, or execute for any account of the Client.
11. The Client agrees to advise the Financial Organization of any changes in the Client's financial situation or investment objective insofar as the Client deems such changes material to the Client's option transactions.
12. The Client has received from the Financial Organization the most recent Options Risk Disclosure Document. The Client has read and understands the information contained in this document.
13. The Client understands that you assign exercise notices on a random basis except that, with respect to options on certain debt instruments (Treasury bonds, Treasury notes, Treasury bills, and GNMA's), you may preferentially assign exercises of block-size (for instance, covering \$1 million or more of the underlying securities) to block-size writing positions and you may preferentially assign smaller exercises to smaller writing positions. The Client understands that upon the Client's request, you will provide the Client with further information regarding the procedure used to assign exercise notices.
14. ■ **ARBITRATION IS FINAL AND BINDING ON THE PARTIES.**
 - THE PARTIES ARE WAIVING THEIR RIGHT TO SEEK REMEDIES IN COURT, INCLUDING THE RIGHT TO JURY TRIAL.
 - PREARBITRATION DISCOVERY IS GENERALLY MORE LIMITED THAN AND DIFFERENT FROM COURT PROCEEDINGS.
 - THE ARBITRATORS' AWARD IS NOT REQUIRED TO INCLUDE: FACTUAL FINDINGS OR LEGAL REASONING 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.
15. IT IS AGREED THAT ANY CONTROVERSY BETWEEN OR AMONG THE UNDERSIGNED, PERSHING, AND THE FINANCIAL ORGANIZATION OR ANY OF THEM ARISING OUT OF PERSHING'S OR THE FINANCIAL ORGANIZATION'S BUSINESS OR THIS AGREEMENT SHALL BE SUBMITTED TO ARBITRATION BEFORE THE NEW YORK STOCK EXCHANGE, INC. OR ANY OTHER NATIONAL SECURITIES EXCHANGE ON WHICH A TRANSACTION GIVING RISE TO THE CLAIM TOOK PLACE (AND ONLY BEFORE SUCH EXCHANGE) OR THE NATIONAL ASSOCIATION OF SECURITIES DEALERS, INC., AS THE UNDERSIGNED MAY ELECT AND IN ACCORDANCE WITH THE RULES OBTAINING OF THE SELECTED ORGANIZATION. ARBITRATION MUST BE COMMENCED BY SERVICE UPON THE OTHER PARTY OF A WRITTEN DEMAND FOR ARBITRATION OR A WRITTEN NOTICE OF INTENTION TO ARBITRATE, THEREIN ELECTING THE ARBITRATION TRIBUNAL. IN THE EVENT THE UNDERSIGNED DOES NOT MAKE SUCH ELECTION WITHIN FIVE (5) DAYS OF SUCH DEMAND OR NOTICE, THEN THE UNDERSIGNED AUTHORIZES YOU TO DO SO ON BEHALF OF THE UNDERSIGNED.

NO PERSON SHALL BRING A PUTATIVE OR CERTIFIED CLASS ACTION TO ARBITRATION, NOR SEEK TO ENFORCE ANY PREDISPUTE ARBITRATION AGREEMENT AGAINST ANY PERSON WHO HAS INITIATED IN COURT A PUTATIVE CLASS 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 CLIENT 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.